



Milesight Network Camera
CGI Specification

Milesight Technology Co.,Ltd.

V3.9.1

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Overview

This document specifies the parameters and configuration files for Milesight IP camera.

Permission level

The permission levels column in each parameter table shows the required permission level to operate parameters. To be able to perform an action on a parameter the user needs to have a permission level equal to or higher than the corresponding permission level of the parameter.

Security level	Description
Anonymous	Access the HTTP service without authentication.
Viewer	Normal access right.
Operator	High access right.
Admin	Top access right.

Valid values

Data Type	Valid values
Boolean	0 / 1
String	Any string
Domain name	A domain name format. Max 80 characters.
Host name	A hostname
IP address	A string on the format xxx.xxx.xxx.xxx, where xxx is a number between 0 to 255. Example : 192.168.0.200
MAC address	A string on the format xx: xx: xx: xx: xx: xx, where xx is a hexadecimal value. Example : 00:24:1D:20:8E:F1
Network port	1 ... 65535

An integer	Any number between -2147483647 ($-2^{31}-1$) and 2147483647 ($2^{31}-1$).
An unsigned integer	Any number between 0 and 4294967295 ($2^{32}-1$).

Format

Format	Note
INF	INF format output is supported for “get” command, but not supported for “set” command.
RS	<ol style="list-style-type: none"> RS format output is supported for “get” and “set” command. System will be restarted after setting.

Note: The camera support basic(base64) and digest authentication. Which means you can use the CGI url like “http://admin:password@IP/...”.

Example :

http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.advanced

Return: RS format

```
var model_hardware_wireless = '0'; var network_ntpinformation_fromdhcp = '0'; var
network_ntpinformation_ntpmanual = 'pool.ntp.org'; var network_hostnameinformation_host_fromdhcp = '0';
var network_hostnameinformation_host_name = 'HisilPC'; network_protocol_enabled[0] = '1';
network_protocol_name[0] = 'http'; network_protocol_port[0] = '80'; network_protocol_enabled[1] = '1';
network_protocol_name[1] = 'https'; network_protocol_port[1] = '443'; network_protocol_enabled[2] = '0';
network_protocol_name[2] = 'arp'; network_protocol_port[2] = ""; network_protocol_enabled[3] = '1';
network_protocol_name[3] = 'ftp'; network_protocol_port[3] = '21'; network_protocol_enabled[4] = '1';
network_protocol_name[4] = 'rtsp'; network_protocol_port[4] = '554'; network_protocol_enabled[5] = '1';
network_protocol_name[5] = 'upnp'; network_protocol_port[5] = '1900'; network_protocol_enabled[6] = '0';
network_protocol_name[6] = 'bonjour'; network_protocol_port[6] = ""; network_protocol_enabled[7] = '1';
network_protocol_name[7] = 'rtspOverHttp'; network_protocol_port[7] = '80'; var system_misc_haveyoics =
'0';
```

Example :

http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.advanced&format=inf

Return: INF format

```
[NETWORKADVANCED]
model_hardware_wireless=0
network_ntpinformation_fromdhcp=0
network_ntpinformation_ntpmanual=pool.ntp.org
network_hostnameinformation_host_fromdhcp=0
network_hostnameinformation_host_name=HisilPC
network_protocol_enabled_0=1
network_protocol_name_0=http
network_protocol_port_0=80
network_protocol_enabled_1=1
network_protocol_name_1=https
network_protocol_port_1=443
network_protocol_enabled_2=0
```

```
network_protocol_name_2=arp
network_protocol_port_2=
network_protocol_enabled_3=1
network_protocol_name_3=ftp
network_protocol_port_3=21
network_protocol_enabled_4=1
network_protocol_name_4=rtsp
network_protocol_port_4=554
network_protocol_enabled_5=1
network_protocol_name_5=upnp
network_protocol_port_5=1900
network_protocol_enabled_6=0
network_protocol_name_6=bonjour
network_protocol_port_6=
network_protocol_enabled_7=0
network_protocol_name_7=rtspOverHttp
network_protocol_port_7=554
system_misc_haveyoics=0
```

Example: set the PTZ enable (RS format)

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.ptz&ptz_setting_protocol=0&ptz_setting_speed=5&system_serial_buadrate=2400
```

1. admin.cgi

The administrator operation interface.

Permissions: Admin

Syntax:

[http://<URL>/cgi-bin/admin/admin.cgi?action=<Action Name>\[&<parameter=value>\]](http://<URL>/cgi-bin/admin/admin.cgi?action=<Action Name>[&<parameter=value>])

1.1 Network

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
NETWORK	get.network.general	Get: IP/DHCP, PPPoE, VLAN, UPnP, Multicast group address, QoS DSCP.
	set.network.general	Set: IP/DHCP, PPPoE, VLAN, UPnP, Multicast group address, QoS DSCP.
	get.network.advanced	Get: NTP server address, HTTP/ HTTPS port, FTP, RTSP port, rtspOverHttp port.
	set.network.advanced	Set: NTP server address, HTTP/ HTTPS port, RTSP port.
	get.network.ddns	Get: DDNS provider, hostname, username, password and so on.
	set.network.ddns	Set: DDNS provider, hostname, username, password and so on.
	get.network.rtsp	Get Multicast group address and Multicast port.
	set.network.rtsp	Set Multicast group address and Multicast port.
	get.network.snmp	Get SNMP configurations.
	set.network.snmp	Set SNMP configurations.
	get.network.8021x	Get 802.1x parameters.
	set.network.8021x	Set 802.1x parameters.

get.network.bonjour	Get bonjour parameters.
set.network.bonjour	Set bonjour parameters.
get.network.rtmp	Get RTMP configurations.
set.network.rtmp	Set RTMP configurations.
get.network.platform	Get platform access parameters.
set.network.platform	Set platform access parameters.
get.network.more	Get ONVIF and Push Event parameters.
set.network.more	Set ONVIF and Push Event parameters.
get.network.cellular	Get cellular parameters.
set.network.cellular	Set cellular parameters

1.1.1 get.network.general

To get network general parameters, such as basic ethernet, PPPoE, UPNP, multicast and QoS.

Usage:

<http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.general>

Parameter	Values	Description
model_hardware_wireless	Boolean	Wireless supported or not 0 : No 1 : Yes
network_interface_ipv4_dhcp	Boolean	Enable DHCP 0 : No 1 : Yes
network_interface_ipv4_manual_address	IP address	IP address for wired ethernet
network_interface_ipv4_manual_netmask	IP address	Net mask for wired ethernet
network_interface_ipv4_manual_gateway	IP address	Gateway for wired ethernet
network_dnsinformation_dnsmanual_0	IP address	The 1 st DNS (Preferred DNS)
network_dnsinformation_dnsmanual_1 (not implemented)	IP address	The 2 nd DNS
ipchange_enable (not implemented)	Boolean	Enable IP-change Notification. 0 : No 1 : Yes
network_mtu_bytes	An unsigned integer 1200 ~1500	MTU
		<i>Above items can be referred to Figure 1-1-1-1</i>
network_pppoe_enabled	Boolean	Enable PPPoE 0 : No 1 : Yes
network_pppoe_username	String, max 32	PPPoE username
network_pppoe_password	String, max 32	PPPoE password
		<i>Above items can be referred to Figure 1-1-1-2</i>
network_vlan_enable	Boolean	Enable VLAN 0 : No 1 : Yes
network_vlan_id	An unsigned integer 1~ 4094	VLAN id
network_vlan_ip	String, max 64	VLAN IP
network_vlan_netmask	String, max 64	VLAN netmask
network_vlan_gateway	String, max 64	VLAN gateway
		<i>Above items can be referred to Figure 1-1-1-3</i>

network_scanupnp_enable	Boolean	Enable UPnP scan 0 : No 1 : Yes
network_upnp_enable	Boolean	Enable UPnP 0 : No 1 : Yes
network_upnp_name	String, max 63	UPnP name
network_upnp_type	Boolean	Type UPNP 0 : auto 1 : manual
network_upnp_httpport	An unsigned integer 1 ~65535	UPnP HTTP port
network_upnp_httpsport	An unsigned integer 1 ~65535	UPnP HTTPS port
network_upnp_rtspport	An unsigned integer 1 ~65535	UPnP RTSP port
network_upnp_playbackport	An unsigned integer 1 ~65535	UPnP playback port
		<i>Above items can be referred to Figure 1-1-1-4</i>
network_multicast_group_address	String, max 64	Multicast group address
network_qos_dscp	An unsigned integer 0 ~ 63	QoS DSCP
		<i>Above items can be referred to Figure 1-1-1-5</i>

TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x Bonjour RTMP Platform Access More

Get IPv4 address automatically

Use fixed IPv4 address

IP Address:

IPv4 Subnet Mask:

IPv4 Default Gateway:

Preferred DNS Server:

IPv6 Mode:

IPv6 Address:

IPv6 Prefix:

IPv6 Default Gateway:

MTU:
(1200~1500)bytes

Figure 1-1-1-1 IPv4

TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

Enable PPPoE:

Dynamic IP:

User Name:

Password:

Confirm Password:

Figure 1-1-1-2 PPPoE

TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

VLAN Enable:

VLAN ID(1~4094):

VLAN IP:

VLAN Netmask:

VLAN Gateway:

Figure 1-1-1-3 VLAN

TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

Enable UPnP:

Port Mapping

Enable Port Mapping:

Name:

Type:

Protocol Name	External Port	Internal Port	Status
HTTP	<input type="text" value="21202"/>	<input type="text" value="80"/>	Invalid
RTSP	<input type="text" value="23202"/>	<input type="text" value="554"/>	Invalid
Playback	<input type="text" value="25202"/>	<input type="text" value="555"/>	Invalid

Figure 1-1-1-4 UPnP

TCP/IP HTTP RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

RTSP Port: ⓘ

Playback Port: ⓘ

RTP Packet:

Multicast Group Address:

QoS DSCP(0~63):

Figure 1-1-1-5 Multicast and QoS

Example : Get general network parameters(all)

<http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.general>

Return:

```
var model_hardware_wireless = '0'; var network_interface_ipv4_manual_address = '192.168.8.141'; var network_interface_ipv4_manual_netmask = '255.255.252.0'; var network_interface_ipv4_dhcp = '0'; var network_interface_ipv4_manual_gateway = '192.168.9.1'; var network_dnsinformation_dnsmanual_0 = '8.8.8.8'; var network_dnsinformation_dnsmanual_1 = ''; var ipchange_enabled = '0'; var network_pppoe_enabled = '0'; var network_pppoe_username = 'april'; var network_pppoe_password = 'april'; var network_vlan_enable = '0'; var network_vlan_id = '1'; var network_vlan_ip = '192.168.8.142'; var network_vlan_netmask = '255.255.252.0'; var network_vlan_gateway = '192.168.8.1'; var network_upnp_enable = '0'; var network_upnp_name = 'UPnP'; var network_upnp_type = '0'; var network_upnp_httpport = '21202'; var network_upnp_rtspport = '23202'; var network_upnp_playbackport = '25202'; var network_multicast_group_address = '239.6.6.6'; var network_qos_dscp = '0';
```

Example : Get UPNP type and QoS DSCP

```
http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.general&network_upnp_type&network_qos_dscp
```

Return:

```
var network_upnp_type = '0'; var network_qos_dscp = '0';
```

1.1.2 set.network.general

To set general network parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.general&<parameter>=<value>
```

Example: Set streams parameter

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.general&network_interface_ipv4_dhcp=0&network_pppoe_enabled=0&network_pppoe_username=test&network_pppoe_password=test1234&network_interface_ipv4_manual_address=192.168.5.227&network_interface_ipv4_manual_netmask=255.255.255.0&network_interface_ipv4_manual_gateway=192.168.5.1&network_interface_ipv4_manual_prefixlength=24&network_dnsinformation_dnsmanual_0=192.168.5.1&network_dnsinformation_dnsmanual_1=192.168.5.1&network_vlan_id=1&network_vlan_ip=192.168.1.1&network_vlan_netmask=255.255.255.0&network_vlan_gateway=192.168.9.1&network_upnp_enable=0&network_upnp_name=David&network_upnp_type=0&network_upnp_httpport=21202&network_upnp_rtspport=23202&network_upnp_playbackport=25202&network_multicast_group_address=239.6.6.6&network_qos_dscp=10
```

Example: Enable PPPoE and set PPPoE username & password

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.general&network_pppoe_enabled=1&network_pppoe_username=test&network_pppoe_password=test1234
```

1.1.3 get.network.advanced

To get advanced network settings parameters, such as NTP, HTTP, HTTPS, RTSP, FTP.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.advanced
```

Parameter	Values	Description
model_hardware_wireless	Boolean	Wireless supported or not 0 : No 1 : Yes
network_ntpinformation_fromdhcp (not implemented)	Boolean	NTP from DHCP 0 : No 1 : Yes
network_ntpinformation_ntpmanual	String, max 80	NTP server address. <i>Refer to Figure 1-1-3-1</i>
network_hostnameinformation_host_fromdhcp (not implemented)	Boolean	Hostname from DHCP 0 : No 1 : Yes
network_hostnameinformation_host_name	String, max 80	Hostname
network_protocol_enabled[0]	Boolean	Enable HTTP. 0 : No 1 : Yes
network_protocol_name[0]	String, max 80	The name of protocol "0"--HTTP
network_protocol_port[0]	An unsigned integer 1 ~65535	HTTP port number.
network_protocol_enabled[1]	Boolean	Enable HTTPS.

		0 : No 1 : Yes
network_protocol_name[1]	String, max 80	The name of protocol "1"--HTTPS
network_protocol_port[1]	An unsigned integer 1 ~65535	HTTPS port number.
		<i>Above items can be referred to Figure 1-1-3-2</i>
network_protocol_enabled[2] (not implemented)	Boolean	Enable ARP. 0 : No 1 : Yes
network_protocol_name[2] (not implemented)	String, max 80	The name of protocol "2"--ARP
network_protocol_port[2] (not implemented)	An unsigned integer 1 ~65535	ARP port number.
network_protocol_enabled[3]	Boolean	Enable FTP. (fixed value 1) 0 : No 1 : Yes
network_protocol_name[3]	String, max 80	The name of protocol "3"--FTP
network_protocol_port[3]	An unsigned integer 1 ~65535	FTP port number.
network_protocol_enabled[4]	1	Read only. (fixed value 1)
network_protocol_name[4]	String, max 80	The name of protocol "4"--RTSP
network_protocol_port[4]	An unsigned integer 1 ~65535	RTSP port number.
		<i>Above items can be referred to Figure 1-1-3-3</i>
network_protocol_enabled[5] (invalid)	Boolean	Enable UPnP. 0 : No 1 : Yes
network_protocol_name[5]	String, max 80	The name of protocol "5"--UPnP
network_protocol_port[5] (not implemented)	An unsigned integer 1 ~65535	UPnP port number
network_protocol_enabled[6] (not implemented)	Boolean	Enable Bonjour.
network_protocol_name[6] (not implemented)	String, max 80	The name of protocol "6"--Bonjour
network_protocol_port[6] (not implemented)	An unsigned integer 1 ~65535	Bonjour port number
network_protocol_enabled[7]	Boolean	Enable rtspOverHttp (fixed value 1)
network_protocol_name[7]	String, max 80	The name of protocol "7"--rtspOverHttp
network_protocol_port[7]	An unsigned integer 1 ~65535	rtspOverHttp port number.
system_misc_haveyoics (not implemented)		

Date & Time

Current System Time	
Date:	23/12/2019
Time:	18:37:40

Set the System Time	
Time Zone:	(UTC-08:00) United States - Paci
Daylight Saving Time:	Disabled
<input checked="" type="radio"/> NTP server	
Server Address:	pool.ntp.org
NTP Sync:	<input checked="" type="checkbox"/> Interval: 1 day

Figure 1-1-3-1

TCP/IP **HTTP** RTSP UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

HTTP Enable:	<input checked="" type="checkbox"/>
HTTP Port:	80
HTTPS Enable:	<input checked="" type="checkbox"/>
HTTPS Port:	443

Figure 1-1-3-2

TCP/IP HTTP **RTSP** UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

RTSP Port:	554
------------	-----

Figure 1-1-3-3

Example : get advanced network parameters

<http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.advanced>

Return:

```
var model_hardware_wireless = '0'; var network_ntpinformation_fromdhcp = '0'; var
network_ntpinformation_ntpmanual = 'pool.ntp.org'; var network_hostnameinformation_host_fromdhcp = '0';
var network_hostnameinformation_host_name = 'HisilPC'; network_protocol_enabled[0] = '1';
network_protocol_name[0] = 'http'; network_protocol_port[0] = '80'; network_protocol_enabled[1] = '1';
network_protocol_name[1] = 'https'; network_protocol_port[1] = '443'; network_protocol_enabled[2] = '0';
network_protocol_name[2] = 'arp'; network_protocol_port[2] = ""; network_protocol_enabled[3] = '1';
network_protocol_name[3] = 'ftp'; network_protocol_port[3] = '21'; network_protocol_enabled[4] = '1';
network_protocol_name[4] = 'rtsp'; network_protocol_port[4] = '554'; network_protocol_enabled[5] = '1';
network_protocol_name[5] = 'upnp'; network_protocol_port[5] = '1900'; network_protocol_enabled[6] = '0';
network_protocol_name[6] = 'bonjour'; network_protocol_port[6] = ""; network_protocol_enabled[7] = '1';
network_protocol_name[7] = 'rtspOverHttp'; network_protocol_port[7] = '80'; var system_misc_haveyoics =
'0';
```

Example : get NTP server address and https port

[http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.advanced&network_ntpinformation_ntpmanual&network_protocol_port\[1\]](http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.network.advanced&network_ntpinformation_ntpmanual&network_protocol_port[1])

Return:

```
var network_ntpinformation_ntpmanual = 'pool.ntp.org'; var network_protocol_port[1] = '443';
```

1.1.4 set.network.advanced

To set advanced network parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.advanced<parameter>=<value>
```

Parameter	Values	Description
network_ntpinformation_ntpmanual	String, max 80	NTP server address.
network_protocol_http_port	An unsigned integer 1 ~65535	http port
network_protocol_https_port	An unsigned integer 1 ~65535	https port
network_protocol_rtsp_port	An unsigned integer 1 ~65535	rtsp port

Example: set advanced network parameters

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.advanced&network_hostnameinformation_name=testhost&network_ntpinformation_ntpmanual=pool.ntp.org&network_protocol_http_port=8080&network_protocol_rtsp_port=554
```

1.1.5 get.network.ddns

To get DDNS parameters, such as provider, hostname, username, password and so on.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.ddns
```

Parameter	Values	Description
model_hardware_wireless	Boolean	Wireless supported or not 0 : No 1 : Yes
network_ddns_enabled	Boolean	Enable DDNS. 0 : No 1 : Yes
network_ddns_hostname	String, max 80	DDNS hostname
network_ddns_username	String, max 32	DDNS username
network_ddns_password	String, max 32	DDNS password
network_ddns_provider	String, max 32	ddns.milesight.com, dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com, custom_server
network_ddns_hash	String, max 32	DDNS hash
network_ddns_httpport	An unsigned integer 1 ~65535	DDNS external http port
network_ddns_rtspport	An unsigned integer 1 ~65535	DDNS external rtsp port
network_ddns_playbackport	An unsigned integer 1 ~65535	DDNS external playback port

TCP/IP HTTP RTSP UPnP **DDNS** Email FTP VLAN PPPoE SNMP 802.1x

DDNS is not running	
Enable DDNS:	<input type="checkbox"/>
Provider:	ddns.milesight.com
External HTTP Port :	80
External RTSP Port:	554
External Playback Port:	555
DDNS URL:	http://ddns.milesight.com/24619B

Note: Recommend to enable and configure UPnP ports which can be used directly in DDNS.

Figure 1-1-5

Example: get DDNS parameters

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.ddns`

Return:

```
var model_hardware_wireless = '0'; var network_ddns_enabled = '1'; var network_ddns_hostname = 'aaacc.com'; var network_ddns_username = 'user'; var network_ddns_password = '1234'; var network_ddns_provider = 'dyndns.org'; var network_ddns_hash = 'abcdefg'; var network_ddns_httpport='80'; var network_ddns_rtsport='554'; var network_ddns_playbackport='555';
```

1.1.6 set.network.ddns

To set Dynamic DNS parameters.

Usage:

`http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.ddns<parameter>=<value>`

Example : set DDNS parameters

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.ddns&network_ddns_enabled=1&network_ddns_hostname=your.host.name&network_ddns_username=username&network_ddns_password=password&network_ddns_provider=dyndns.org&network_ddns_hash=test&network_ddns_httpport=80&network_ddns_rtsport=554&network_ddns_playbackport=555`

1.1.7 get.network.ipchange (not implemented)

To get IP-changed notification parameters.

1.1.8 set.network.ipchange (not implemented)

To set IP-changed notification parameters.

1.1.9 get.network.wireless (not implemented)

To get Wireless setting parameters and Wireless-AP information.

1.1.10 set.network.wireless (not implemented)

To set Wireless parameters.

1.1.11 search.network.wireless (not implemented)

To search or refresh Wireless AP information.

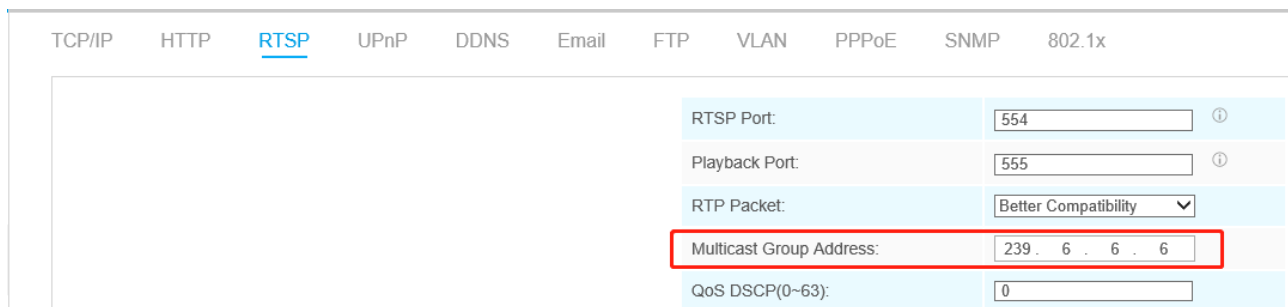
1.1.12 get.network.rtsp

To get RTSP streaming parameters, such multicast group address and multicast port.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.rtsp
```

parameter	Values	Description
network_multicast_group_address	String, max 64	Multicast group address
network_multicast_port[ID]	An unsigned integer 1 ~65535	RTSP Multicast Streaming Port 0:for audio streaming 1:for primary stream video port in multicast 2:for secondary stream video port in multicast 3:for tertiary stream video port in multicast



TCP/IP HTTP **RTSP** UPnP DDNS Email FTP VLAN PPPoE SNMP 802.1x

RTSP Port: ⓘ

Playback Port: ⓘ

RTP Packet: ▾

Multicast Group Address:

QoS DSCP(0~63):

Figure 1-1-12

Example : get multicast parameters

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.rtsp
```

Return:

```
var network_multicast_group_address = '239.6.6.6';var network_multicast_port[0] = '7032';var  
network_multicast_port[1] = '7034';var network_multicast_port[2] = '7036';var network_multicast_port[3] =  
'7038';
```

1.1.13 set.network.rtsp

To set RTSP streaming(multicast) parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.rtsp<parameter>=<value>
```

Example : set multicast parameters

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.rtsp&network_multicast_group_address=23  
9.6.6.6&network_multicast_port_0=7032&network_multicast_port_1=7034&network_multicast_port_2=7036  
&network_multicast_port_3=7038
```

1.1.14 get.network.snmp

To get SNMP streaming parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.snmp
```

parameter	Values	Description
network_snmp_v1enable	Boolean	SNMP V1 Enable: 0: No 1: Yes
network_snmp_v2cenable	Boolean	SNMP V2c Enable: 0: No 1: Yes
network_snmp_wrcommunity	String, max 32	SNMP Write Community
network_snmp_rdcommunity	String, max 32	SNMP Read Community
network_snmp_v3enable	Boolean	SNMP V3 Enable: 0: No 1: Yes
network_snmp_rdsecurityname	String, max 32	SNMP Read Security Name
network_snmp_rdsecuritylevel	An unsigned integer 0~2	SNMP Read Level Of Security 0: auth,priv 1: auth,no priv 2: no auth,no priv
network_snmp_rdauthenticationalgorithm	An unsigned integer 0~1	SNMP Read Authentication Algorithm 0: MD5 1: SHA
network_snmp_rdauthenticationpassword	String, max 32	SNMP Read Authentication Password
network_snmp_rdprivatekeyalgorithm	An unsigned integer 0~1	SNMP Read Private Key Algorithm 0: DES 1: AES
network_snmp_rdprivatekeypassword	String, max 32	SNMP Read Private Key Password
network_snmp_wrcsecurityname	String, max 32	SNMP Write Security Name
network_snmp_wrcsecuritylevel	An unsigned integer 0~2	SNMP Write Level Of Security 0: auth,priv 1: auth,no priv 2: no auth,no priv
network_snmp_wrauthenticationalgorithm	An unsigned integer 0~1	SNMP Write Authentication Algorithm 0: MD5 1: SHA
network_snmp_wrauthenticationpassword	String, max 32	SNMP Write Authentication Password
network_snmp_wrprivatekeyalgorithm	An unsigned integer 0~1	SNMP Write Private Key Algorithm 0: DES 1: AES
network_snmp_wrprivatekeypassword	String, max 32	SNMP Write Private Key Password
network_snmp_port	An unsigned integer 1 ~65535	SNMP Port

SNMP v1/v2	
SNMP V1 Enable:	<input type="checkbox"/>
SNMP V2c Enable:	<input type="checkbox"/>
Write Community:	<input type="text" value="public"/>
Read Community:	<input type="text" value="private"/>
SNMP v3	
SNMP V3 Enable:	<input type="checkbox"/>
Read Security Name:	<input type="text"/>
Level of Security:	<input type="text" value="no auth,no priv"/>
Write Security Name:	<input type="text"/>
Level of Security:	<input type="text" value="no auth,no priv"/>
SNMP Port	
SNMP Port:	<input type="text" value="161"/>

Example :

<http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.snmp>

Return:

```
var network_snmp_v1enable = '0'; var network_snmp_v2cenable = '0'; var network_snmp_wrcommunity = 'public'; var network_snmp_rdcommunity = 'private'; var network_snmp_v3enable = '0'; var network_snmp_rdsecurityname = ""; var network_snmp_rdsecuritylevel = '2'; var network_snmp_rdauthenticationalgorithm = '0'; var network_snmp_rdauthenticationpassword = ""; var network_snmp_rdprivatekeyalgorithm = '0'; var network_snmp_rdprivatekeypassword = ""; var network_snmp_wrsecurityname = ""; var network_snmp_wrsecuritylevel = '2'; var network_snmp_wrauthenticationalgorithm = '0'; var network_snmp_wrauthenticationpassword = ""; var network_snmp_wrprivatekeyalgorithm = '0'; var network_snmp_wrprivatekeypassword = ""; var network_snmp_port = '161';
```

1.1.15 set.network.snmp

To set SNMP streaming parameters.

Usage:

<http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.snmp<parameter>=<value>>

Example :

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.snmp&network_snmp_v1enable=0&network_snmp_v2cenable=0&network_snmp_wrcommunity=public&network_snmp_rdcommunity=private&network_snmp_v3enable=0&network_snmp_rdsecurityname=rdname&network_snmp_rdsecuritylevel=2&network_snmp_rdauthenticationalgorithm=0&network_snmp_rdauthenticationpassword=password&network_snmp_rdprivatekeyalgorithm=0&network_snmp_rdprivatekeypassword=password&network_snmp_wrsecurityname=wrname&network_snmp_wrsecuritylevel=2&network_snmp_wrauthenticationalgorithm=0&network_snmp_wrauthenticationpassword=password&network_snmp_wrprivatekeyalgorithm=0&network_snmp_wrprivatekeypassword=password&network_snmp_port=161

1.1.16 get.network.8021x

To get 8021x streaming parameters.

Usage:

`http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.8021x`

parameter	Values	Description
network_8021x_enable	Boolean	Enable 8021x: 0: No 1: Yes
network_8021x_protocol	String	8021x Protocol: EAP-MD5(fixed)
network_8021x_eapolver	An unsigned integer 1~2	8021x Eapal Version
network_8021x_username	String max128	8021x User Name
network_8021x_password	String max64	8021x Password

VLAN PPPoE SNMP 802.1x Bonjour

Enable 802.1x:	<input type="checkbox"/>
Protocol:	EAP-MD5 <input type="button" value="v"/>
Eapol Version:	1 <input type="button" value="v"/>
User Name:	<input type="text"/>
Password:	<input type="password"/>
Confirm Password:	<input type="password"/>

Example :

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.8021x`

Return:

```
var network_8021x_enable = '0'; var network_8021x_protocol = 'EAP-MD5'; var network_8021x_eapolver = '2'; var network_8021x_username = 'wer'; var network_8021x_password = 'q';
```

1.1.17 set.network.8021x

To set 8021x streaming parameters.

Usage:

`http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.8021x<parameter>=<value>`

Example :

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.8021x&network_8021x_enable=0&network_8021x_eapolver=2&network_8021x_username=name&network_8021x_password=password`

1.1.18 get.network.bonjour

To get bonjour streaming parameters.

Usage:

`http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.bonjour`

parameter	Values	Description
network_bonjour_enable	Boolean	Enable Bonjour: 0: No 1: Yes

network_bonjour_name	String max64	Bonjour Name
----------------------	--------------	--------------

Example :

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.bonjour

Return:

```
var network_bonjour_enable = '0'; var network_bonjour_name = 'MS-C8161-EPB-1CC316221650';
```

1.1.19 set.network.bonjour

To set bonjour streaming parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.bonjour<parameter>=<value>
```

Example :

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.bonjour&network_bonjour_enable=0&network_bonjour_name=name

1.1.20 get.network.rtmp

To get RTMP streaming parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.rtmp
```

parameter	Values	Description
network_rtmp_enable	Boolean	Enable RTMP: 0: No 1: Yes
network_rtmp_stream_type	An unsigned integer 0~4	RTMP Stream Type: 0: Primary Stream 1: Secondary Stream 2: Tertiary Stream 3: Fourth Stream 4: Fifth Stream
network_rtmp_server_address	String max256	RTMP Server Address

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.rtmp
```

Return:

```
var network_rtmp_enable = '0'; var network_rtmp_stream_type = '1'; var network_rtmp_server_address = 'www';
```

1.1.21 set.network.rtmp

To set RTMP streaming parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.rtmp<parameter>=<value>
```

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.rtmp&network_rtmp_enable=1&network_rtmp_stream_type=1&network_rtmp_server_address=www
```

1.1.22 get.network.platform

To get platform access parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.platform
```

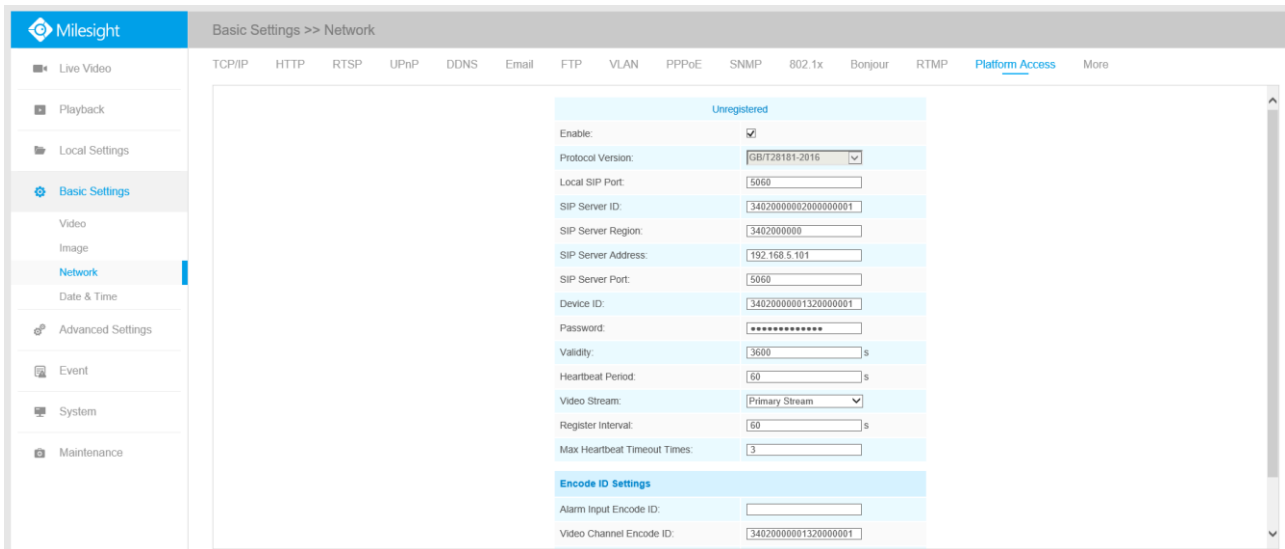
parameter	Values	Description
network_gb_enable	Boolean	Enable GB28181: 0: No 1: Yes
network_gb_local_port	An unsigned integer	Gb local port
network_gb_server_id	String max63	Gb server id
network_gb_server_region	String max63	Gb server region
network_gb_server_address	String max63	Gb server address
network_gb_server_port	An unsigned integer	Gb server port
network_gb_device_id	String max63	Gb device ID
network_gb_password	String max31	Gb password
network_gb_validity	An unsigned integer	Gb validity
network_gb_heartbeat_period	An unsigned integer	Gb heratbeat period
network_gb_video_stream	An unsigned integer	Gb video stream
network_gb_register_interval	An unsigned integer	Gb register interval
network_gb_max_timeout	An unsigned integer	Gb max timeout
network_gb_alarm_input	String max63	Gb alarm input encode ID
network_gb_video_channel	String max63	Gb video channel encode ID
network_gb_audio_output	String max63	Gb audio output encode ID

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.platform
```

Return:

```
var network_gb_enable = '0'; var network_gb_local_port = '5060'; var network_gb_server_id = '3402000002000000001'; var network_gb_server_region = '3402000000'; var network_gb_server_address = ''; var network_gb_server_port = '5060'; var network_gb_device_id = '3402000001320000001'; var network_gb_password = ''; var network_gb_validity = '3600'; var network_gb_heartbeat_period = '60'; var network_gb_video_stream = '0'; var network_gb_register_interval = '60'; var network_gb_max_timeout = '3'; var network_gb_alarm_input = ''; var network_gb_video_channel = '3402000001320000001'; var network_gb_audio_output = '';
```



1.1.23 set.network.platform

To set platform access parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.platform<parameter>=<value>
```

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.platform&network_gb_enable=0&network_gb_local_port=5060&network_gb_server_id=3402000002000000001&network_gb_region=3402000000&network_gb_server_address=192.168.0.200&network_gb_server_port=5060&network_gb_device_id=3402000001320000001&network_gb_password=123456&network_gb_validity=3600&network_gb_heartbeat_period=60&network_gb_video_stream=0&network_gb_register_interval=60&network_gb_max_timeout=3&network_gb_video_channel=3402000002000000001
```

1.1.24 get.network.more

To get network more parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.more
```

parameter	Values	Description
network_onvif_enable	Boolean	Enable Onvif 0: No 1: Yes
network_push_enable	Boolean	Enable Push Event 0: No 1: Yes
network_push_type	An unsigned integer	Push Event 1 << 0 : Motion Detection 1 << 3 : Audio 1 << 4 : External Input 1 << 5 : External Input Ext 1 << 8 : Face Detection 1 << 9 : VCA Tamper 1 << 12 : VCA Region Entrance 1 << 13 : VCA Region Exit 1 << 14 : VCA Line Crossing 1 << 15 : VCA Loitering 1 << 16 : VCA Advanced Motion

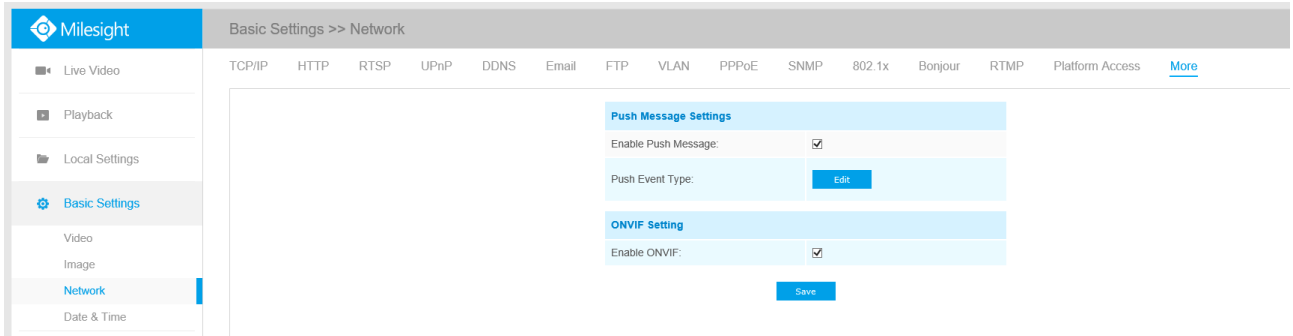
	1 << 17 : VCA Human Detection 1 << 18 : VCA People Counting 1 << 20 : VCA Object/Removed 1 << 26 : LPR Black List 1 << 27 : LPR White List 1 << 28 : LPR Visitor List 1 << 29 : IOT
--	---

Example :

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.more`

Return:

```
var network_onvif_enable = '1'; var network_push_enable = '0'; var network_push_type = '255';
```



1.1.25 set.network.more

To set network more parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.more<parameter>=<value>
```

Example :

`http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.more&network_push_enable=0&network_push_type=255`

1.1.26 get.network.cellular

To get cellular parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.network.cellular
```

parameter	Values	Description
cellular_enable	Boolean	Enable Cellular: 0: No 1: Yes
cellular_apn	String max32	Access Point Name:
cellular_username	String max32	User Name
cellular_password	String max32	password
cellular_pincode	String max32	Personal Identification Number
cellular_accessnumber	String max32	Access Number
cellular_authenticationtype	An unsigned integer 0~4	Authentication Type: 0: Auto

		1: PAP 2: CHAP 3: MS-CHAP 4: MS-CHAPv2
cellular_networktype	An unsigned integer 0~3	Network Type: 0: Auto 1: 5G_NSA 2: 5G_SA 3: 4G
cellular_redialinterval	An unsigned integer 0~3600	The Re-dial Interval must be between 0-3600s
cellular_billday	An unsigned integer 1~28	The settlement day of each month
cellular_isp	String max32	Internet Service Provider
cellular_simstatus	String max32	Sim card status: No SIM Card Invalid Valid
cellular_signal	An unsigned integer 0~5	Signal Strength: 0 worst , 5 best 0: (≤ -113 dBm) 1: (> -113 dBm , ≤ -107 dBm) 2: (> -107 dBm, ≤ -103 dBm) 3: (> -103 dBm, ≤ -101 dBm) 4: (> -101 dBm, ≤ -91 dBm) 5: (> -91 dBm)
cellular_connect	String max32	Net Connect Status: Connect Disconnect
cellular_imei	String max32	International Mobile Equipment Identity
cellular_imsi	String max32	International Mobile Subscriber Identity
cellular_iccid	String max32	Integrate circuit card identity
cellular_ipaddr	String max32	IP Address
cellular_subnetmask	String max32	Subnet Mask
cellular_gateway	String max32	Gateway
cellular_dns	String max32	DNS Address
cellular_datausage	An unsigned integer	Data Usage Monthly: MiB
cellular_schedule_[id]	String	Cellular Schedule <i>[id]:weekday</i> such as: cellular_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400:


		start time:01:10 stop time:10:00
		start time:11:00 stop time:13:00
		start time:14:00 stop time:24:00

Example :

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.network.cellular

Return:

```
var cellular_enable = '0'; var cellular_apn = ""; var cellular_username = ""; var cellular_password = ""; var
cellular_pincode = ""; var cellular_accessnumber = ""; var cellular_authenticationtype = '0'; var
cellular_networktype = '0'; var cellular_redialinterval = '30'; var cellular_billday = '1'; var cellular_isp =
'CHN-CT'; var cellular_simstatus = 'Valid'; var cellular_signal = '5'; var cellular_connect = 'Disconnect'; var
cellular_imei = '-'; var cellular_imsi = '-'; var cellular_iccid = '-'; var cellular_ipaddr = '0.0.0.0'; var
cellular_subnetmask = '0.0.0.0'; var cellular_gateway = '0.0.0.0'; var cellular_dns = '0.0.0.0'; var
cellular_datausage = '0'; var cellular_schedule[0] = '10000240000000000000000000'; var cellular_schedule[1]
= '10000240000000000000000000000000'; var cellular_schedule[2] = '10000240000000000000000000000000'; var
cellular_schedule[3] = '10000240000000000000000000000000'; var cellular_schedule[4] =
'10000240000000000000000000000000'; var cellular_schedule[5] = '10000240000000000000000000000000'; var
cellular_schedule[6] = '10000240000000000000000000000000';
```

Cellular Status	
ISP:	CHN-CT
SIM Card Status:	Valid
Signal Strength:	
Status:	Disconnect
IMEI:	-
IMSI:	-
ICCID:	-
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Gateway:	0.0.0.0
DNS Address:	0.0.0.0
Data Usage Monthly:	0MiB

Refresh

Cellular Settings	
Enable Cellular:	<input type="checkbox"/>
APN:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
PIN Code:	<input type="text"/>
Access Number:	<input type="text"/>
Authentication Type:	Auto ▼
Network Type:	Auto ▼
Re-dial Interval:	<input type="text" value="30"/> s (0-3600)
Billing Day:	Day <input type="text" value="1"/> of The Month

1.1.27 set.network.cellular

To set network cellular parameters.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.network.cellular<parameter>=<value>
```

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.network.cellular&cellular_enable=0&cellular_username=name&cellular_password=password&cellular_authenticationtype=0&cellular_networktype=0&cellular_re dialinterval=30&cellular_billday=1
```

1.2 System

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
SYSTEM	get.system.information	Get: Model name, firmware version, system boot time, MAC address, IPv4/DHCP, DDNS, device name, device location, hardware version, software version, kernel version, alarm I/O support and number, audio I/O support, SDK version, fisheye support, LPR support.
	set.system.information	Set: Device name, device location.
	get.system.datetime	Get: Date/time setting type(NTP/Computer/Manual), timezone, current date/time, NTP setting, daylight saving time.
	set.system.datetime	Set: Date/time setting type(NTP/Computer/Manual), timezone, current date/time, NTP setting, daylight saving time.
	get.system.maintenance	Get: Model name, firmware version, hardware(MAC) address.
	reboot.system.maintenance	Reboot camera.
	loaddefault.system.maintenance	Reset camera(except IP and user).
	loadfactory.system.maintenance	Reset camera to factory settings.
	set.system.reset	Reset camera to factory settings.

1.2.1 get.system.information

To get system information.

Usage:

<http://<IP>/cgi-bin/admin/admin.cgi?action=get.system.information>

Parameter	Values	Description
MODEL	String	Read only. Model name.
system_deviceinformation_firmwareversion	String	Firmware version
system_deviceinformation_systemboottime	Integer	Boot time of system
system_deviceinformation_wireless	Boolean	Wireless supported or not 0 : No 1 : Yes
network_interface_info_hwaddress[0]	String	MAC address
network_interface_ipv4_dhcp[0]	Boolean	Enable DHCP 0 : No 1 : Yes
network_interface_ipv4_current_address[0]	IP address	IP address for wired ethernet
network_interface_ipv4_current_netmask[0]	IP address	Netmask for wired ethernet
network_interface_ipv4_current_gateway[0]	IP address	Gateway for wired ethernet
network_pppoe_pppoe_enabled (invalid)	Boolean	Enable pppoe
network_dnsinformation_dnsmanual_0	IP address	The 1 st DNS
network_dnsinformation_dnsmanual_1 (not implemented)	IP address	The 2 nd DNS
network_ddns_enabled	Boolean	Enable DDNS 0 : No 1 : Yes
network_ddns_hostname	String, max 80	DDNS hostname
network_ddns_status	Boolean	Status of DDNS 1: running 0: not running
wireless_setting_enabled (invalid)	Boolean	Enable wireless setting
system_misc_devicename	String, max 32	Device name
system_misc_devicelocation	String, max 60	Device location.
system_deviceinformation_vender (not implemented)		
system_hardware_version	String	Hardware version
system_software_version	String	Software version
system_kernel_version	String	Kernel version
system_io_support	Boolean	The device support alarm input and output module 1: support 0: not support
system_audio_support	Boolean	The device support audio module 1: support 0: not support
system_audio_support_mode	Integer	The device support audio mode 0:mic only 1:mic and speaker
system_audio_line_input_support	Boolean	The device support audio Line Input 1: support 0: not support
system_sdk_version	String	SDK version
system_fisheye_support	Boolean	The device support fisheye function 1: support 0: not support

system_alarm_input_support	Integer	The device support alarm input number
system_alarm_output_support	Integer	The device support alarm output number
system_speaker_support	Boolean	The device support speaker 1: support 0: not support
system_lpr_support	Boolean	The device support LPR 1: support 0: not support
system_lpr_version	An unsigned interger	1: LPR2 2: LPR3 3: LPR1
system_lpr_need_license	Boolean	The device need LPR license 1: need 0: not need
system_face_support	Boolean	The device support Face 1: support 0: not support
system_with_ir_sensor	Boolean	The device support IR sensor 1: support 0: not support
system_dn_sensitivity_support	Boolean	The device support Day to Night Sensitivity 1: support 0: not support
system_croproi_support	Boolean	The device support crop ROI 1: support 0: not support
system_dn_refocus_support	Boolean	The device support Day/Night Switch Refocus 1: support 0: not support
system_reduce_video_stuttering_support	Boolean	The device support Reduce Video Stuttering 1: support 0: not support
system_polygon_support	Boolean	The device support polygon detection region 1: support 0: not support
system_local_display_video_support	Boolean	The device support local display video 1: support 0: not support
system_audio_file_manager_support	Boolean	The device support audio file manager 1: support 0: not support
system_human_vehicle_support	Boolean	The device support human and vehicle detection 1: support 0: not support
system_manual_speed_support	Boolean	The device support manual speed 1: support 0: not support
system_sn_code	String	SN code
system_mosaic_support	Boolean	The device support manual mosaic privacy mask 1: support 0: not support
system_anti_shake_support	Boolean	The device support Digital Image Stabilization 1: support 0: not support
system_corridor_mode_support	Boolean	The device support corridor mode 1: support 0: not support

system_image_rotation_support	Boolean	The device support image rotation 1: support 0: not support
system_human_detection_support	Boolean	The device support human detection 1: support 0: not support
system_regional_people_support	Boolean	The device support regional people counting 1: support 0: not support
system_heatmap_support	Boolean	The device support heatmap 1: support 0: not support

System	
Device Name:	Network Camera
Product Model:	MS-C5362-EPB
Hardware Version:	V1.0
Software Version:	41.7.0.73
MAC Address:	1C:C3:16:23:C8:4D
Device Information:	SA600E53F0N2
Alarm Input:	1
Alarm Output:	1
Uptime:	8 minutes

Figure 1-2-1

Example:

<http://192.168.0.200:80/cgi-bin/admin/admin.cgi?action=get.system.information>

Return:

```
var MODEL = 'MS-C5362-EPB'; var system_deviceinformation_firmwareversion = '41.7.0.73'; var
system_deviceinformation_systemboottime = '01/13/2020 18:47:11'; var system_deviceinformation_wireless
= '0'; var network_interface_info_hwaddress[0] = '1c:c3:16:23:c8:4d'; var network_interface_ipv4_dhcp[0] =
'0'; var network_interface_ipv4_current_address[0] = '192.168.7.86'; var
network_interface_ipv4_current_netmask[0] = '255.255.240.0'; var
network_interface_ipv4_current_gateway[0] = '192.168.7.1'; var network_pppoe_pppoe_enabled = '0'; var
network_dnsinformation_dnsmanual_0 = '8.8.8.8'; var network_dnsinformation_dnsmanual_1 = ""; var
network_ddns_enabled = '0'; var network_ddns_hostname = ""; var network_ddns_status = '0'; var
wireless_setting_enabled = '0'; var system_misc_devicename = 'Network Camera'; var
system_misc_devicelocation = 'XiaMen China'; var system_deviceinformation_vender = "";var
system_hardware_version = 'V1.0';var system_software_version = '41.7.0.73';var system_kernel_version =
'4.2.x.8';var system_sdk_version = '2.4.04';var system_io_support = '1';var system_audio_support = '1';var
system_audio_support_mode = '1';var system_alarm_input_support = '1';var system_alarm_output_support =
'1';var system_fisheye_support = '0';var system_vca_support = '1';var system_vca_type = '2';var
system_anr_support = '1';var system_speaker_support = '1';var system_lpr_support = '0';var
system_face_support = '0';
```

1.2.2 set.system.information

To set system device name and location.

Usage:

<http://<IP>/cgi-bin/admin/admin.cgi?action=set.system.information&<parameter>=<value>>

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.information&system_misc_devicename=TestDemo&system_misc_devicelocation=MyLocation
```

1.2.3 get.system.datetime

To get system date and time.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.system.datetime
```

Parameter	Values	Description
system_datetime_datetimetype	An unsigned integer 0~2	Set date/time mode 0 : NTP 1 : Computer 2 : Manual
system_datetime_timezone_tz	String, max 8 -11 -10 0:00 +12 +13	Time zone: n means UTC+n:00 -n means UTC-n:00 0:00 means UTC+0:00 specially 3:30 means UTC+3:30
system_datetime_zonename_tz	String	Zone name such as CHN, USA, CAN, etc. See Appendix A for details
system_datetime_localdatetime_time_hour	An unsigned integer 0~23	Time hour
system_datetime_localdatetime_time_minute	An unsigned integer 0~59	Time minute
system_datetime_localdatetime_time_second	An unsigned integer 0~59	Time second
system_datetime_localdatetime_date_year	Integer	Date year
system_datetime_localdatetime_date_month	An unsigned integer 1~12	Date month
system_datetime_localdatetime_date_day	An unsigned integer 1~31	Date day
system_datetime_ntp_server_address	String max 64	NTP Server Address
system_datetime_ntp_sync_enable	Boolean	NTP sync enable 0: Disable 1: Enable
system_datetime_ntp_interval	An unsigned integer 0~8	NTP interval 60: 1 hour 120: 2 hours 300: 5 hours 600: 10 hours 1440: 1 day 2880: 2 days 7200: 5 days 14400: 10 days 43200: 30 days
system_datetime_daylight	Boolean	Daylight Saving Time 0: Disabled 1: Automatic

Current System Time	
Date:	13/01/2020
Time:	19:13:59
Set the System Time	
Time Zone:	(UTC-08:00) United States - Paci
Daylight Saving Time:	Disabled
<input checked="" type="radio"/> NTP server	
Server Address:	pool.ntp.org
NTP Sync:	<input checked="" type="checkbox"/> Interval: 1 day
<input type="radio"/> Manual	
Time:	14/01/2020 11:13:09
<input type="radio"/> Synchronize with computer time	
Date:	14/01/2020
Time:	11:13:58

Figure 1-2-3

Example :

<http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.system.datetime>

Return:

```
var system_datetime_localdatetime_date_year = '2019'; var system_datetime_localdatetime_date_month = '12'; var system_datetime_localdatetime_date_day = '15'; var system_datetime_localdatetime_time_hour = '23'; var system_datetime_localdatetime_time_minute = '3'; var system_datetime_localdatetime_time_second = '5'; var system_datetime_timezone_tz = '-8'; var system_datetime_daylight = '1'; var system_datetime_datetimetype = '0'; var system_datetime_ntp_server_address = 'pool.ntp.org'; var system_datetime_ntp_sync_enable = '1'; var system_datetime_ntp_interval = '1440';
```

1.2.4 set.system.datetime

To set system date and time.

Usage:

<http://<IP>/cgi-bin/admin/admin.cgi?action=set.system.datetime&<parameter>=<value>>

Example:

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.datetime&system_datetime_datetimetype=0&system_datetime_timezone_tz=+8&system_datetime_daylight=1&system_datetime_localdatetime_time_hour=11&system_datetime_localdatetime_time_minute=41&system_datetime_localdatetime_time_second=8&system_datetime_localdatetime_date_year=2011&system_datetime_localdatetime_date_month=6&system_datetime_localdatetime_date_day=16&system_datetime_ntp_sync_enable=1&system_datetime_ntp_interval=300&system_datetime_ntp_server_address=pool.ntp.org

Set NTP Server Mode:

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.datetime&system_datetime_datetimetype=0&system_datetime_timezone_tz=+8&system_datetime_daylight=1&system_datetime_ntp_sync_enable=1&system_datetime_ntp_interval=300&system_datetime_ntp_server_address=pool.ntp.org

Set Manual Mode:

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.datetime&system_datetime_datetimetype=2&system_datetime_localdatetime_time_hour=11&system_datetime_localdatetime_time_minute=41&system_datetime_localdatetime_time_second=8&system_datetime_localdatetime_date_year=2011&system_datetime_localdatetime_date_month=6&system_datetime_localdatetime_date_day=16

1.2.5 get.system.maintenance

To get system maintenance information.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.system.maintenance
```

Parameter	Values	Description
MODEL	String	Read only. Model name.
system_deviceinformation_firmwareversion	String	Read only. Firmware version.
network_interface_info_hwaddress	String	Read only. MAC address.

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.system.maintenance
```

Return:

```
var MODEL = 'MS-C2962-FIPB'; var system_deviceinformation_firmwareversion = '40.7.0.73'; var network_interface_info_hwaddress = '1c:c3:16:21:00:22';
```

1.2.6 reboot.system.maintenance

Request to reboot system.

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=reboot.system.maintenance
```

1.2.7 loaddefault.system.maintenance

Rest camera to default settings(except ip address and user) and reboot the system.

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=loaddefault.system.maintenance
```

1.2.8 backupfile.system.maintenance (not implemented)

Backup system setting, /backup.zip will be create when this action has been requested.

Step 1 : Request this action.

Step 2 : Down load backup file. (http://192.168.0.200/backup.zip) (not implemented)

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=backupfile.system.maintenance
```

1.2.9 loadfactory.system.maintenance

Reset camera to factory settings and reboot the system.

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=loadfactory.system.maintenance
```

1.2.10 set.system.reset

To reset system.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.system.reset<parameter>=<value>
```

Parameter	Values	Description
system_reset_options	An unsigned integer	Reset options 1 (1 << 0) : Keep the IP configuration

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.reset&system_reset_options=3
```

1.3 User

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
USER	get.system.user	Get: Anonymous viewing setting, user list(user name, user level).
	set.system.user	Set: Anonymous viewing, modify user(password, user level).
	add.system.user	Add user.
	del.system.user	Delete user.

1.3.1 get.system.user

To get system user list.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.system.user
```

Parameter	Values	Description
system_misc_anonymous	Boolean	Enable anonymous viewing 0: Disable 1: Enable
security_user_username_0	String, max 32	User name (Administrator)
security_user_userlevel_0	An unsigned integer 0~2	New user level 0 : Administrator 1 : Operator 2 : Viewer
security_user_username_1 security_user_username_9	String, max 32	User name (Other users)
security_user_userlevel_1 security_user_userlevel_9	An unsigned integer 0~2	New user level 0 : Administrator 1 : Operator 2 : Viewer
security_user_privilege_1 security_user_privilege_9	An unsigned integer	privilege type: All : -1 or Live Video: 1 (1 << 0) Playback: 2 (1 << 1) Local Settings: 4 (1 << 2) Video Settings: 8 (1 << 3) Image Settings: 16 (1 << 4) Audio Setting: 32 (1 << 5) Net Settings: 64 (1 << 6)

		RTSP Access: 128 (1 << 7) Date Time: 256 (1 << 8) Event Setting: 512 (1 << 9) Storage Setting: 1024 (1 << 10) Storage Format: 2048 (1 << 11) Security Setting: 4096 (1 << 12) Sip Setting: 8192 (1 << 13) Log: 16384 (1 << 14) System: 32768 (1 << 15) Maintenance: 65536 (1 << 16) Ptz Ctrl: 131072 (1 << 17) Ptz Setting: 262144 (1 << 18) Fisheye Setting: 524288 (1 << 19) LPR Setting: 1048576 (1 << 20) Face Detection: 2097152 (1 << 21)
		Note: just sum up the privilege values when you set privilege for a user.

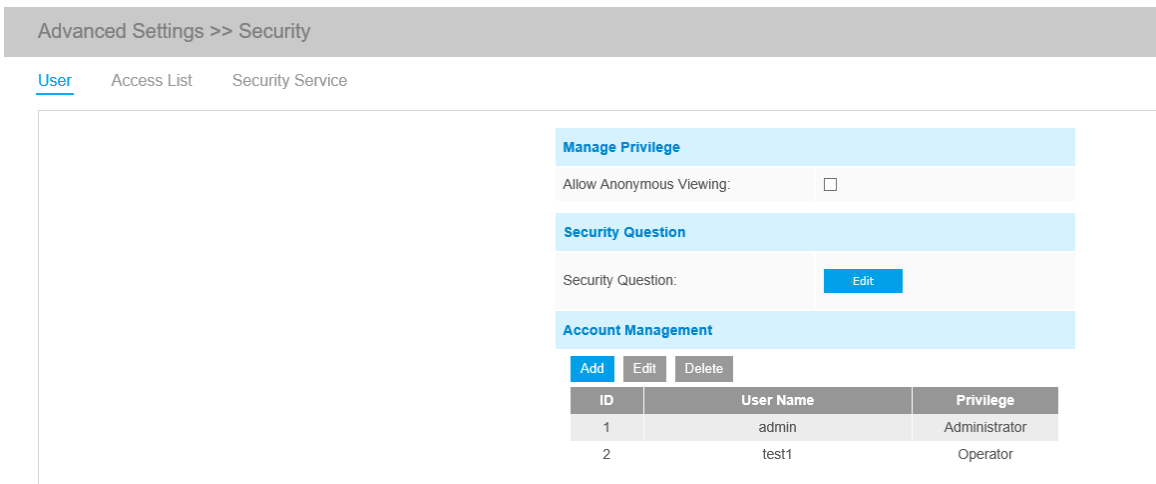


Figure 1-3-1

Example:

http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.system.user&format=inf

Return: Only one user (INF format)

```
[USER]
system_misc_anonymous=1
security_user_username_0=admin
security_user_userlevel_0=0
```

Return: Two user (INF format)

```
[USER]
system_misc_anonymous=1
security_user_username_0=admin
security_user_userlevel_0=0
security_user_username_1=operator
security_user_userlevel_1=1
```

1.3.2 set.system.user

To update a user account parameter.

Usage:

http://<IP>/cgi-bin/admin/admin.cgi?action=set.system.user&security_user_username=<value>&<parameter>=<value>

Parameter	Values	Description
security_user_password	String, max 16	New user password
security_user_userlevel	An unsigned integer 1~2	New user level 1 Operator, 2 Viewer
security_user_username	String, max 32	Username (already exist in the user list)
system_misc_anonymous	Boolean	Enable anonymous 0 : No 1 : Yes

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.system.user&security_user_username=admin&security_user_password=password&security_user_userlevel=1&security_user_privilege=15
```

1.3.3 add.system.user

To create a new user account.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=add.system.user&<parameter>=<value>
```

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=add.system.user&security_user_username=test2&security_user_password=test1234&security_user_userlevel=2
```

1.3.4 del.system.user

To delete an user account.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=del.system.user&security_user_username=<value>
```

Parameter	Values	Description
security_user_username	String, max 32	Username (already exist in the user list)

Example:

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=del.system.user&security_user_username=test1
```

1.4 Maintenance

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
Maintenance	get.auto.reboot	Get auto reboot setting.
	set.auto.reboot	Set auto reboot.

1.4.1 get.auto.reboot

To get auto reboot configurations.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.auto.reboot
```

Parameter	Values	Description
auto_reboot_enable	Boolean	Enable anonymous viewing 0: Disable 1: Enable
auto_reboot_weekday	An unsigned integer 0~7	Auto Reboot Weekday 0:Sunday 1:Monday 2:Tuesday 3:Wednesday 4:Thursday 5:Friday 6:Saturday 7:Everyday
auto_reboot_hour	An unsigned integer 0~23	Auto Reboot Hour
auto_reboot_min	An unsigned integer 0~59	Auto Reboot Minute
auto_reboot_sec	An unsigned integer 0~59	Auto Reboot Second

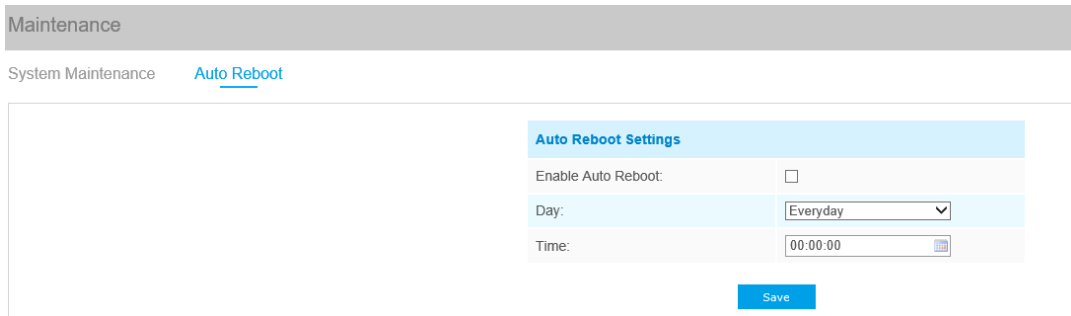


Figure 1-4-1

Example: Get auto reboot configurations

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.auto.reboot
```

Return:

```
var auto_reboot_enable = '1'; var auto_reboot_weekday = '7';var auto_reboot_hour = '2';var auto_reboot_min = '11';var auto_reboot_sec = '11';
```

1.4.2 set.auto.reboot

To set auto reboot configurations.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.auto.reboot<parameter>=<value>
```

Example: Set streams parameter

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.auto.reboot&auto_reboot_enable=0&auto_reboot_weekday=3&auto_reboot_hour=13&auto_reboot_min=20&auto_reboot_sec=11
```

1.5 Upgrade

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
UPGRADE	get.upgrade.info	Get upgrade information.
	update.cgi	Update firmware.
	set.upgrade.config	Set upgrade parameters before upgrading.

1.5.1 get.upgrade.info

To get upgrade info.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.upgrade.info
```

Parameter	Values	Description
upgrade_info	text	upgrade info

Example: Get auto reboot configurations

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.upgrade.info&format=inf
```

Return: INF format

```
[UPGRADE]
upgrade_info=platform=0&AIType=0&softversion=40.7.5.74-t1&apptype=0&hardware=V1.0&model=MS-C4451-PB&actived=1&oemid=5
```

Example: Get auto reboot configurations

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.upgrade.info
```

Return:

```
var upgrade_info =
'platform=0&AIType=0&softversion=40.7.5.74-t1&apptype=0&hardware=V1.0&model=MS-C4451-PB&actived=1&oemid=5';
```

1.5.2 update.cgi

To update firmware.

Example: Post data Usage

HTTP method : POST

```
http://192.168.0.200/update.cgi
```

Use "multipart/form-data" to upload firmware:

```
Content-Type: multipart/form-data; boundary=${bound}
```

Sending files using a FormData object. You can look at this:

```
https://developer.mozilla.org/en-US/docs/Web/API/FormData/Using_FormData_Objects
```

Example of WEB:

```
Request URL: http://192.168.2.113/update.cgi
Request Method: POST
Status Code: 200 OK
Remote Address: 192.168.2.113:80
Referrer Policy: no-referrer-when-downgrade
Cache-Control: no-store
Content-type: text/html
Pragma: no-cache
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-e
```

```
xchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Authorization: Digest username="admin", realm="IPNC", nonce="edba4822356f561583b96e29049e9991",
uri="/update.cgi", response="d657eb9a9acdc69d536672516e31799f", qop=auth, nc=0000018f,
cnonce="888c1a486f0595b6"
Cache-Control: max-age=0
Connection: keep-alive
Content-Length: 37734608
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryJpDeHLw7Ox0rzPIQ
Cookie: IsRememberMe=e9; myYSusername=; myYSpassword=; itemindex=e8; pluginsType=eb;
msStreamIndex=e8; defaultpwd=bb8ed4; loginname=b888dbf2a3; anony=e9; logout=e9; versiontips=e8;
language=9c82d1f7a495db; password=b49f87a9fed286ef; islogin=e9; pageName=b082d2feb5c8dbadb480;
isHome=e9; MenuVideo0=af9fd3efb98fddbef784c2f6a1; MenuVideo1=af9fd3efb98fddbef784c2f6a1;
menutype=ea; MenuMaintenance1=bf85c4f6b896d7b8ad8998f3b98bdf;
pagename=bf85c4f6b896d7b8ad8998f3b98bdf
Host: 192.168.2.113
Origin: http://192.168.2.113
Referer: http://192.168.2.113/firmupdate.html
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/80.0.3987.116 Safari/537.36
```

1.5.3 set.upgrade.config

To set upgrade parameters before upgrading.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.upgrade.config<parameter>=<value>
```

Parameter	Values	Description
reset_after_upgrading	Boolean	Reset After Upgrading 0: No 1: Yes

Example :

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.upgrade.config&reset_after_upgrading=0
```

1.6 Security

1.6.1 get.watermark

To get watermark settings.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=get.watermark
```

Parameter	Values	Description
watermark_enable	Boolean	Enable Watermark 0: Disable 1: Enable
watermark_string	String, max32	Watermark String

Example: Get Watermark configurations

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=get.watermark
```

Return:

```
var watermark_enable = '0'; var watermark_string = 'IP Camera';
```

1.6.2 set.watermark

To set watermark configurations.

Usage:

```
http://<IP>/cgi-bin/admin/admin.cgi?action=set.watermark<parameter>=<value>
```

Example: Set Watermark parameter

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.watermark&watermark_enable=1&watermark_string=IPCamera
```

2. operator.cgi

Permissions: Admin, Operator

Usage:

[http://<URL>/cgi-bin/operator/operator.cgi?action=<Action Name>\[&<parameter=value>\]](http://<URL>/cgi-bin/operator/operator.cgi?action=<Action Name>[&<parameter=value>])

2.1 Video General

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
VIDEO GENERAL	get.video.general	Get: Model name, sensor, local display video, streams parameters, video settings(resolution, bit rate, bitrate control, video codec, profile level, image quality...), smart stream, rtsp port.
	set.video.general	Set: Streams parameters, video settings(resolution, bit rate, bitrate control, video codec, profile level, image quality...), smart stream.
	get.video.resolutions	Get all resolution options.
	get.video.bitrates	Get all bit rate options.
	get.video.parameter	Get maximum frame rate for each resolution.
	get.fishvideo.general	Get: (for fisheye camera) Model name, sensor, local display video, streams parameters, video settings(resolution, bit rate, bitrate control, video codec, profile level, image quality...), smart stream, rtsp port.
	set.fishvideo.general	Set: (for fisheye camera) Streams parameters, video settings(resolution, bit rate, bitrate control, video codec, profile level, image quality...), smart stream.
	get.fishvideo.resolutions	Get all resolution options. (for fisheye camera)
	get.fishvideo.bitrates	Get all bit rate options. (for fisheye camera)
	get.video.options	Get some video options.
	get.fishvideo.options	Get some video options. (for fisheye camera)
	get.stream.url	Get video stream url.

2.1.1 get.video.general

To get streams parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.general>

Parameter	Values	Description
system_deviceinformation_model	String	Model name
system_deviceinformation_sensor	String	Sensor name
system_deviceinformation_tvstandards	Integer	Local display video -1: Off 0: NTSC 1: PAL
media_profile_resolution_width[0] ... media_profile_resolution_width[2] media_profile_resolution_height[0]	Integer	Resolution [0] Main stream [1] Sub stream [2] Third stream
media_profile_url[0]	String, max 10	Stream path(main, sub, third)
media_profile_framerate[0]	An unsigned integer 1~30 (25)	Stream frame rate
media_profile_gop[0]	An unsigned integer 1~120	GOP size (I-frame interval)
media_profile_ratecontrol_mode[0]	Boolean	Compression mode 0: CBR 1: VBR
media_profile_ratecontrol_targetbitrate[0]	An unsigned integer	Bitrate (for main stream: 16~16384Kbps; for sub/third stream: 16~2048 Kbps)
media_profile_ratecontrol_quality[0]	An unsigned integer	JPEG quality level 25 : Low 50: Medium 60 : High 75: Higher
media_profile_profile[0]	An unsigned integer	H264 profile level 0 : Base profile 1 : Main profile 2 : High profile
media_profile_codec[0]	An unsigned integer 0,1,2,3	Video codec 0: H.264 1: MPEG4 2: MJPEG 3: H.265
media_profile_enabled[0]	Boolean	Stream 2 or 3 is enable 0: Disable 1: Enable
media_profile_vbr_quality[0]	An unsigned integer	VBR image quality 0: Low 1: Medium 2: High
cTVStandards	Integer	TV standard
rtsp_port	Network port	RTSP port number
media_profile_smart_stream_enable[0]	Boolean	0: OFF 1: ON

media_profile_smart_stream_level[0]	An unsigned integer 1~10	Smart stream level
event_stream_enable	An unsigned integer	Event stream record enable 0: OFF 1: ON
event_stream_frame_rate	An unsigned integer	Event stream record frame rate
event_stream_bit_rate	An unsigned integer	Event stream record bit rate
event_stream_iframe	An unsigned integer	Event stream record I-frame interval

Stream Type :	Primary Stream
Record Stream Type :	General
Video Codec :	H.264
Frame Size :	4000*3000
Maximum Frame Rate :	23 fps
Bit Rate :	12000 kbps
Smart Stream :	Off
Bit Rate Control :	CBR
Profile :	Main
I-frame Interval :	20 frame (1-120)

Figure 2-1-1

Example: Get streams parameter
<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.general>

Return:

```
var system_deviceinformation_model = 'MS-C2962-FIPB'; var system_deviceinformation_sensor = 'imx290';
var system_deviceinformation_tvstandards = '0'; media_profile_resolution_width[0] = '1920';
media_profile_resolution_height[0] = '1080'; media_profile_url[0] = 'main'; media_profile_gop[0] = '50';
media_profile_ratecontrol_mode[0] = '1'; media_profile_framerate[0] = '25';
media_profile_ratecontrol_targetBitrate[0] = '4096'; media_profile_ratecontrol_quality[0] = '77';
media_profile_profile[0] = '1'; media_profile_codec[0] = '0'; media_profile_enabled[1] = '1';
media_profile_resolution_width[1] = '320'; media_profile_resolution_height[1] = '240'; media_profile_url[1] =
'sub'; media_profile_gop[1] = '50'; media_profile_ratecontrol_mode[1] = '0'; media_profile_framerate[1] = '25';
media_profile_ratecontrol_targetBitrate[1] = '512'; media_profile_ratecontrol_quality[1] = '75';
media_profile_profile[1] = '1'; media_profile_codec[1] = '2'; media_profile_enabled[2] = '1';
media_profile_resolution_width[2] = '640'; media_profile_resolution_height[2] = '480'; media_profile_url[2] =
'third'; media_profile_gop[2] = '50'; media_profile_ratecontrol_mode[2] = '0'; media_profile_framerate[2] = '25';
media_profile_ratecontrol_targetBitrate[2] = '1024'; media_profile_ratecontrol_quality[2] = '60';
media_profile_profile[2] = '1'; media_profile_codec[2] = '2'; var cTVStandards = '0'; var rtsp_port = '554';
```

2.1.2 set.video.general

To set streams parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.video.general&<parameter>=<value>>
Example: Set streams parameter
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.video.general&media_profile_resolution_width_

```
0=1280&media_profile_resolution_height_0=720&media_profile_framerate_0=30&media_profile_gop_0=15
&media_profile_ratecontrol_mode_0=1&media_profile_ratecontrol_targetbitrate_0=2048&media_profile_prof
ile_0=&media_profile_resolution_width_1=640&media_profile_resolution_height_1=480&media_profile_fram
erate_1=25&media_profile_gop_1=30&media_profile_ratecontrol_mode_1=1&media_profile_ratecontrol_tar
getbitrate_1=256&media_profile_profile_0=1&media_profile_profile_1=1
```

2.1.3 get.video.resolutions

To get streams support resolutions.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.resolutions
```

Parameter	Values	Description
media_resolution_width_supported_<ch>_<i>index</i>>	Integer	Ch from 0 to 2, 0 means main stream, 1 means sub stream, 2 means third stream
media_resolution_height_supported_<ch>_<i>index</i>>		

Example: Get all streams' resolutions

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.resolutions&format=inf
```

Return: INF format

```
[VIDEO_RESOLUTIONS] media_resolution_width_supported_0[0]=1920
media_resolution_height_supported_0[0]=1080
media_resolution_width_supported_0[1]=1280
media_resolution_height_supported_0[1]=960
media_resolution_width_supported_0[2]=1280
media_resolution_height_supported_0[2]=720
media_resolution_width_supported_0[3]=704
media_resolution_height_supported_0[3]=576
media_resolution_width_supported_1[0]=704
media_resolution_height_supported_1[0]=576
media_resolution_width_supported_1[1]=640
media_resolution_height_supported_1[1]=480
media_resolution_width_supported_1[2]=640
media_resolution_height_supported_1[2]=360
media_resolution_width_supported_1[3]=352
media_resolution_height_supported_1[3]=288
media_resolution_width_supported_1[4]=320
media_resolution_height_supported_1[4]=240
media_resolution_width_supported_1[5]=320
media_resolution_height_supported_1[5]=192
media_resolution_width_supported_1[6]=320
media_resolution_height_supported_1[6]=176
media_resolution_width_supported_2[0]=1280
media_resolution_height_supported_2[0]=720
media_resolution_width_supported_2[1]=704
media_resolution_height_supported_2[1]=576
media_resolution_width_supported_2[2]=640
media_resolution_height_supported_2[2]=480
media_resolution_width_supported_2[3]=640
media_resolution_height_supported_2[3]=360
media_resolution_width_supported_2[4]=320
media_resolution_height_supported_2[4]=240
media_resolution_width_supported_2[5]=320
media_resolution_height_supported_2[5]=192
media_resolution_width_supported_2[6]=320
media_resolution_height_supported_2[6]=176
```

Example: Get all streams' resolutions

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.resolutions>

Return:

```
var media_resolution_width_supported_0_0 = 1920; var media_resolution_height_supported_0_0 = 1080;
var media_resolution_width_supported_0_1 = 1280; var media_resolution_height_supported_0_1 = 960; var
media_resolution_width_supported_0_2 = 1280; var media_resolution_height_supported_0_2 = 720; var
media_resolution_width_supported_0_3 = 704; var media_resolution_height_supported_0_3 = 576; var
media_resolution_width_supported_1_0 = 704; var media_resolution_height_supported_1_0 = 576; var
media_resolution_width_supported_1_1 = 640; var media_resolution_height_supported_1_1 = 480; var
media_resolution_width_supported_1_2 = 640; var media_resolution_height_supported_1_2 = 360; var
media_resolution_width_supported_1_3 = 352; var media_resolution_height_supported_1_3 = 288; var
media_resolution_width_supported_1_4 = 320; var media_resolution_height_supported_1_4 = 240; var
media_resolution_width_supported_1_5 = 320; var media_resolution_height_supported_1_5 = 192; var
media_resolution_width_supported_1_6 = 320; var media_resolution_height_supported_1_6 = 176; var
media_resolution_width_supported_2_0 = 1280; var media_resolution_height_supported_2_0 = 720; var
media_resolution_width_supported_2_1 = 704; var media_resolution_height_supported_2_1 = 576; var
media_resolution_width_supported_2_2 = 640; var media_resolution_height_supported_2_2 = 480; var
media_resolution_width_supported_2_3 = 640; var media_resolution_height_supported_2_3 = 360; var
media_resolution_width_supported_2_4 = 320; var media_resolution_height_supported_2_4 = 240; var
media_resolution_width_supported_2_5 = 320; var media_resolution_height_supported_2_5 = 192; var
media_resolution_width_supported_2_6 = 320; var media_resolution_height_supported_2_6 = 176;
```

2.1.4 get.video.bitrates

To get streams support bitrates.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.bitrates>

Parameter	Values	Description
media_bitrate_supported_<ch>_<index>	Integer	Ch from 0 to 2, 0 means main stream, 1 means sub stream, 2 means third stream(if supported)

Example: Get all streams' bitrates

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.bitrates>

Return:

```
var media_bitrate_suppoted_0_0 = 16; var media_bitrate_suppoted_0_1 = 32; var
media_bitrate_suppoted_0_2 = 64; var media_bitrate_suppoted_0_3 = 128; var
media_bitrate_suppoted_0_4 = 256; var media_bitrate_suppoted_0_5 = 512; var
media_bitrate_suppoted_0_6 = 640; var media_bitrate_suppoted_0_7 = 768; var
media_bitrate_suppoted_0_8 = 1024; var media_bitrate_suppoted_0_9 = 1536; var
media_bitrate_suppoted_0_10 = 2048; var media_bitrate_suppoted_0_11 = 3072; var
media_bitrate_suppoted_0_12 = 4096; var media_bitrate_suppoted_0_13 = 5120; var
media_bitrate_suppoted_0_14 = 6144; var media_bitrate_suppoted_0_15 = 7168; var
media_bitrate_suppoted_0_16 = 8192; var media_bitrate_suppoted_0_17 = 10240; var
media_bitrate_suppoted_0_18 = 12288; var media_bitrate_suppoted_0_19 = 14336; var
media_bitrate_suppoted_0_20 = 16384; var media_bitrate_suppoted_1_0 = 16; var
media_bitrate_suppoted_1_1 = 32; var media_bitrate_suppoted_1_2 = 64; var
media_bitrate_suppoted_1_3 = 128; var media_bitrate_suppoted_1_4 = 256; var
media_bitrate_suppoted_1_5 = 384; var media_bitrate_suppoted_1_6 = 512; var
media_bitrate_suppoted_1_7 = 640; var media_bitrate_suppoted_1_8 = 768; var
media_bitrate_suppoted_1_9 = 1024; var media_bitrate_suppoted_1_10 = 1536; var
media_bitrate_suppoted_1_11 = 2048; var media_bitrate_suppoted_2_0 = 16; var
media_bitrate_suppoted_2_1 = 32; var media_bitrate_suppoted_2_2 = 64; var
media_bitrate_suppoted_2_3 = 128; var media_bitrate_suppoted_2_4 = 256; var
media_bitrate_suppoted_2_5 = 384; var media_bitrate_suppoted_2_6 = 512; var
media_bitrate_suppoted_2_7 = 640; var media_bitrate_suppoted_2_8 = 768; var
media_bitrate_suppoted_2_9 = 1024; var media_bitrate_suppoted_2_10 = 1536; var
media_bitrate_suppoted_2_11 = 2048;
```


2.1.5 get.video.parameter

To get frame rate of supported resolutions.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.parameter&media_profile_resolution_width=<value>&media_profile_resolution_height=<value>
```

Parameter	Values	Description
media_profile_resolution_width	Integer	Resolution
media_profile_resolution_height	Integer	
media_profile_video_codec	Integer	Video Codec: 0: H.264 2: MJPEG 3: H.265
media_max_framerate_supported	Integer	Maximum Frame Rate for the resolution

Example: Get frame rate for a resolution

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.parameter&media_profile_resolution_width=1280&media_profile_resolution_height=720&media_profile_video_codec=0
```

Return:

```
var media_max_framerate_supported = 29;
```

2.1.6 get.fishvideo.general

To get streams parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.fishvideo.general
```

Parameter	Values	Description
system_deviceinformation_model	String	Model name
system_deviceinformation_sensor	String	Sensor name
system_deviceinformation_tvstandards	Integer	Local display video -1: Off 0: NTSC 1: PAL
media_profile_resolution_width_<ch> media_profile_resolution_height_<ch>	Integer	Resolution Ch 0~4 means main stream, sub stream, third stream, fourth stream, fifth stream
media_profile_url_<ch>	String, max 10	Stream path(main, sub, third)
media_profile_framerate_<ch>	An unsigned integer 1~30 (25)	Stream frame rate
media_profile_gop_<ch>	An unsigned integer 1~120	GOP size (I-frame interval)
media_profile_ratecontrol_mode_<ch>	Boolean	Compression mode

		0: CBR 1: VBR
media_profile_ratecontrol_targetbitrate_<ch>	An unsigned integer	Bitrate (for main stream: 16~16384Kbps; for sub/third stream: 16~2048 Kbps)
media_profile_ratecontrol_quality_<ch>	An unsigned integer	JPEG quality level 25 : Low 50: Medium 60 : High 75: Higher
media_profile_profile_<ch>	Boolean	H264 profile level 0: Base profile 1: Main profile 2: High profile
media_profile_vbr_quality[ch]	An unsigned integer	VBR image quality 0: Low 1: Medium 2: High
media_profile_codec_<ch>	An unsigned integer 0,1,2,3	Video codec 0: H.264 1: MPEG4(not implemented) 2: MJPEG(not implemented) 3: H.265
media_profile_enabled_<ch>	Boolean	Stream 2 or 3 is enable 0: Disable 1: Enable
media_profile_smart_stream_enable_<ch>	Boolean	0: OFF 1: ON
media_profile_smart_stream_level_<ch>	An unsigned integer 1~10	Smart stream level
cTVStandards	Integer	TV standard
rtsp_port	Network port	RTSP port number
event_stream_enable	An unsigned integer	Event stream record enable 0: OFF 1: ON
event_stream_frame_rate	An unsigned integer	Event stream record frame rate
event_stream_bit_rate	An unsigned integer	Event stream record bit rate
event_stream_iframe	An unsigned integer	Event stream record I-frame interval

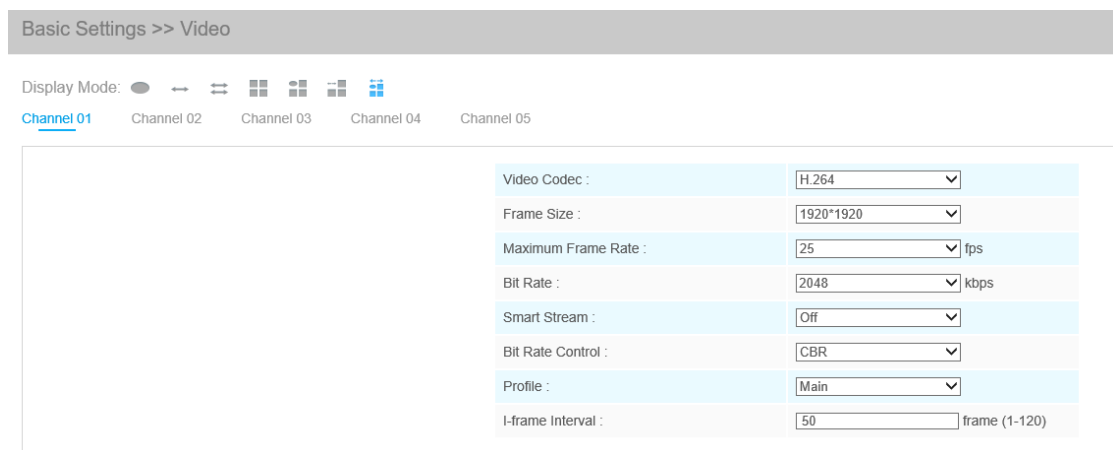


Figure 2-1-6

Example: Get streams parameter

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.general&format=inf
```

Return: INF format display:1P

```
[VIDEO_GENERAL]
system_deviceinformation_model=MS-C9674-PB
system_deviceinformation_sensor=imx226
system_deviceinformation_tvstandards=-1
media_profile_resolution_width_0=2560
media_profile_resolution_height_0=640
media_profile_url_0=main
media_profile_gop_0=50
media_profile_ratecontrol_mode_0=0
media_profile_framerate_0=25
media_profile_ratecontrol_targetBitrate_0=4096
media_profile_ratecontrol_quality_0=0
media_profile_smart_stream_enable_0=0
media_profile_smart_stream_level_0=5
media_profile_smart_stream_enable_1=0
media_profile_smart_stream_level_1=5
media_profile_profile_0=1
media_profile_codec_0=0
media_profile_enabled_1=1
media_profile_resolution_width_1=1280
media_profile_resolution_height_1=320
media_profile_url_1=sub
media_profile_gop_1=50
media_profile_ratecontrol_mode_1=0
media_profile_framerate_1=25
media_profile_ratecontrol_targetBitrate_1=1024
media_profile_ratecontrol_quality_1=77
media_profile_smart_stream_enable_1=0
media_profile_smart_stream_level_1=5
media_profile_profile_1=1
media_profile_codec_1=0
cTVStandards=0
rtsp_port=554
```

Example: Get streams parameter

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.general
```

Return:

```
var system_deviceinformation_model = 'MS-C9674-PB'; var system_deviceinformation_sensor = 'imx226';
var system_deviceinformation_tvstandards = '-1'; media_profile_resolution_width[0] = '2560';
media_profile_resolution_height[0] = '640'; media_profile_url[0] = 'main'; media_profile_gop[0] = '50';
media_profile_ratecontrol_mode[0] = '0'; media_profile_framerate[0] = '25';
media_profile_ratecontrol_targetBitrate[0] = '4096'; media_profile_ratecontrol_quality[0] = '77';
media_profile_smart_stream_enable[0] = '0'; media_profile_smart_stream_level[0] = '5';
media_profile_smart_stream_enable[1] = '0'; media_profile_smart_stream_level[1] = '5';
media_profile_profile[0] = '1'; media_profile_codec[0] = '0'; media_profile_enabled[1] = '1';
media_profile_resolution_width[1] = '1280'; media_profile_resolution_height[1] = '320'; media_profile_url[1] =
'sub'; media_profile_gop[1] = '50'; media_profile_ratecontrol_mode[1] = '0'; media_profile_framerate[1] = '25';
media_profile_ratecontrol_targetBitrate[1] = '1024'; media_profile_ratecontrol_quality[1] = '77';
media_profile_smart_stream_enable[1] = '0'; media_profile_smart_stream_level[1] = '5';
media_profile_profile[1] = '1'; media_profile_codec[1] = '0'; var cTVStandards = '0'; var rtsp_port = '554';
```

2.1.7 set.fishvideo.general

To set streams parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.fishvideo.general&<parameter>=<value>
```

Parameter	Values	Description
media_profile_vbr_quality_<ch>	Integer	Ch 0~4 0: low, 1: mid, 2: high
event_stream_mode	Integer	Fish mode of setting event stream 0: 1O 1: 1P 2: 2P 4: 4R 5: 1O3R 6: 1P3R 7: 1O1P3R

Example: Set streams parameter display:1O

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.fishvideo.general&media_profile_resolution_width_0=2560&media_profile_resolution_height_0=2560&media_profile_framerate_0=25&media_profile_gop_0=50&media_profile_ratecontrol_mode_0=1&media_profile_ratecontrol_targetbitrate_0=6144&media_profile_resolution_width_1=720&media_profile_resolution_height_1=720&media_profile_framerate_1=25&media_profile_gop_1=30&media_profile_ratecontrol_mode_1=1&media_profile_ratecontrol_targetbitrate_1=1024&media_profile_vbr_quality_0=1
```

2.1.8 get.fishvideo.resolutions

To get streams support resolutions.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.fishvideo.resolutions
```

Parameter	Values	Description
media_resolution_width_supported_<ch>_<index>	Integer	Ch 0~4 means main stream, sub stream, third stream, fourth stream, fifth stream
media_resolution_height_supported_<ch>_<index>		

Example: Get streams resolutions

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.resolutions&format=inf
```

Return: INF format

```
[VIDEO_RESOLUTIONS] media_resolution_width_supported_0[0]=2560
media_resolution_height_supported_0[0]=2560 media_resolution_width_supported_0[1]=1920
media_resolution_height_supported_0[1]=1920 media_resolution_width_supported_0[2]=1280
media_resolution_height_supported_0[2]=1280 media_resolution_width_supported_1[0]=1920
media_resolution_height_supported_1[0]=1080 media_resolution_width_supported_1[1]=1280
media_resolution_height_supported_1[1]=720 media_resolution_width_supported_1[2]=640
media_resolution_height_supported_1[2]=480 media_resolution_width_supported_2[0]=1920
media_resolution_height_supported_2[0]=1080 media_resolution_width_supported_2[1]=1280
media_resolution_height_supported_2[1]=720 media_resolution_width_supported_2[2]=640
media_resolution_height_supported_2[2]=480 media_resolution_width_supported_3[0]=1920
media_resolution_height_supported_3[0]=1080 media_resolution_width_supported_3[1]=1280
media_resolution_height_supported_3[1]=720 media_resolution_width_supported_3[2]=640
media_resolution_height_supported_3[2]=480
```

Example: Get streams resolutions

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.resolutions
```

Return:

```
var media_resolution_width_supported_0_0 = 2560; var media_resolution_height_supported_0_0 = 2560;
var media_resolution_width_supported_0_1 = 1920; var media_resolution_height_supported_0_1 = 1920;
```

```
var media_resolution_width_supported_0_2 = 1280; var media_resolution_height_supported_0_2 = 1280;
var media_resolution_width_supported_1_0 = 1920; var media_resolution_height_supported_1_0 = 1080;
var media_resolution_width_supported_1_1 = 1280; var media_resolution_height_supported_1_1 = 720; var
media_resolution_width_supported_1_2 = 640; var media_resolution_height_supported_1_2 = 480; var
media_resolution_width_supported_2_0 = 1920; var media_resolution_height_supported_2_0 = 1080; var
media_resolution_width_supported_2_1 = 1280; var media_resolution_height_supported_2_1 = 720; var
media_resolution_width_supported_2_2 = 640; var media_resolution_height_supported_2_2 = 480; var
media_resolution_width_supported_3_0 = 1920; var media_resolution_height_supported_3_0 = 1080; var
media_resolution_width_supported_3_1 = 1280; var media_resolution_height_supported_3_1 = 720; var
media_resolution_width_supported_3_2 = 640; var media_resolution_height_supported_3_2 = 480;
```

2.1.9 get.fishvideo.bitrates

To get streams support bitrates.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.fishvideo.bitrates
```

Parameter	Values	Description
media_bitrate_supported_<ch>_<index>	Integer	Ch 0~4 means main stream, sub stream, third stream, fourth stream, fifth stream

Example: Get streams bitrates

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.bitrates
```

Return:

```
var media_bitrate_suppoted_0_0 = 16; var media_bitrate_suppoted_0_1 = 32; var
media_bitrate_suppoted_0_2 = 64; var media_bitrate_suppoted_0_3 = 128; var
media_bitrate_suppoted_0_4 = 256; var media_bitrate_suppoted_0_5 = 512; var
media_bitrate_suppoted_0_6 = 640; var media_bitrate_suppoted_0_7 = 768; var
media_bitrate_suppoted_0_8 = 1024; var media_bitrate_suppoted_0_9 = 1536; var
media_bitrate_suppoted_0_10 = 2048; var media_bitrate_suppoted_0_11 = 3072; var
media_bitrate_suppoted_0_12 = 4096; var media_bitrate_suppoted_0_13 = 5120; var
media_bitrate_suppoted_0_14 = 6144; var media_bitrate_suppoted_0_15 = 7168; var
media_bitrate_suppoted_0_16 = 8192; var media_bitrate_suppoted_0_17 = 10240; var
media_bitrate_suppoted_0_18 = 12288; var media_bitrate_suppoted_0_19 = 14336; var
media_bitrate_suppoted_0_20 = 16384; var media_bitrate_suppoted_1_0 = 16; var
media_bitrate_suppoted_1_1 = 32; var media_bitrate_suppoted_1_2 = 64; var
media_bitrate_suppoted_1_3 = 128; var media_bitrate_suppoted_1_4 = 256; var
media_bitrate_suppoted_1_5 = 384; var media_bitrate_suppoted_1_6 = 512; var
media_bitrate_suppoted_1_7 = 640; var media_bitrate_suppoted_1_8 = 768; var
media_bitrate_suppoted_1_9 = 1024; var media_bitrate_suppoted_1_10 = 1536; var
media_bitrate_suppoted_1_11 = 2048; var media_bitrate_suppoted_2_0 = 16; var
media_bitrate_suppoted_2_1 = 32; var media_bitrate_suppoted_2_2 = 64; var
media_bitrate_suppoted_2_3 = 128; var media_bitrate_suppoted_2_4 = 256; var
media_bitrate_suppoted_2_5 = 384; var media_bitrate_suppoted_2_6 = 512; var
media_bitrate_suppoted_2_7 = 640; var media_bitrate_suppoted_2_8 = 768; var
media_bitrate_suppoted_2_9 = 1024; var media_bitrate_suppoted_2_10 = 1536; var
media_bitrate_suppoted_2_11 = 2048; var media_bitrate_suppoted_3_0 = 16; var
media_bitrate_suppoted_3_1 = 32; var media_bitrate_suppoted_3_2 = 64; var
media_bitrate_suppoted_3_3 = 128; var media_bitrate_suppoted_3_4 = 256; var
media_bitrate_suppoted_3_5 = 384; var media_bitrate_suppoted_3_6 = 512; var
media_bitrate_suppoted_3_7 = 640; var media_bitrate_suppoted_3_8 = 768; var
media_bitrate_suppoted_3_9 = 1024; var media_bitrate_suppoted_3_10 = 1536; var
media_bitrate_suppoted_3_11 = 2048;
```

2.1.10 get.video.options

To get video supported options.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.options>

Parameter	Values	Description
media_profile_video_codec_<ch>	Integer	<ch> 0~4 means main stream, sub stream, third stream, fourth stream, fifth stream 1: H.264 (1 << 0) 2: H.265 (1 << 1) 4: MJPEG (1 << 2)
codec	Integer	Video codec 0: H.264 1: MJPEG 3: H.265
media_resolution_width_supported_<ch>_<index>	Integer	Ch from 0 to 2, 0 means main stream, 1 means sub stream, 2 means third stream
media_resolution_height_supported_<ch>_<index>		

Example: Get streams bitrates

<http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.video.options&codec=0>

Return:

```
var media_profile_video_codec_0 = '7'; var media_profile_video_codec_1 = '7'; var
media_profile_video_codec_2 = '7'; var media_resolution_width_supported_0_0 = 2304; var
media_resolution_height_supported_0_0 = 1296; var media_resolution_width_supported_0_1 = 2592; var
media_resolution_height_supported_0_1 = 1520; var media_resolution_width_supported_0_2 = 1920; var
media_resolution_height_supported_0_2 = 1080; var media_resolution_width_supported_0_3 = 1280; var
media_resolution_height_supported_0_3 = 960; var media_resolution_width_supported_0_4 = 1280; var
media_resolution_height_supported_0_4 = 720; var media_resolution_width_supported_0_5 = 704; var
media_resolution_height_supported_0_5 = 576; var media_resolution_width_supported_1_0 = 704; var
media_resolution_height_supported_1_0 = 576; var media_resolution_width_supported_1_1 = 640; var
media_resolution_height_supported_1_1 = 480; var media_resolution_width_supported_1_2 = 640; var
media_resolution_height_supported_1_2 = 360; var media_resolution_width_supported_1_3 = 352; var
media_resolution_height_supported_1_3 = 288; var media_resolution_width_supported_1_4 = 320; var
media_resolution_height_supported_1_4 = 240; var media_resolution_width_supported_1_5 = 320; var
media_resolution_height_supported_1_5 = 192; var media_resolution_width_supported_1_6 = 320; var
media_resolution_height_supported_1_6 = 180; var media_resolution_width_supported_2_0 = 1920; var
media_resolution_height_supported_2_0 = 1080; var media_resolution_width_supported_2_1 = 1280; var
media_resolution_height_supported_2_1 = 720; var media_resolution_width_supported_2_2 = 704; var
media_resolution_height_supported_2_2 = 576; var media_resolution_width_supported_2_3 = 640; var
media_resolution_height_supported_2_3 = 480; var media_resolution_width_supported_2_4 = 640; var
media_resolution_height_supported_2_4 = 360; var media_resolution_width_supported_2_5 = 352; var
media_resolution_height_supported_2_5 = 288; var media_resolution_width_supported_2_6 = 320; var
media_resolution_height_supported_2_6 = 240; var media_resolution_width_supported_2_7 = 320; var
media_resolution_height_supported_2_7 = 192; var media_resolution_width_supported_2_8 = 320; var
media_resolution_height_supported_2_8 = 180;
```

2.1.11 get.fishvideo.options

To get Fisheye video supported options.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.fishvideo.options>

Parameter	Values	Description
-----------	--------	-------------

media_profile_video_codec_<ch>	Integer	<ch> 0~4 means main stream, sub stream, third stream, fourth stream, fifth stream 1: H.264 (1 << 0) 2: H.265 (1 << 1) 4: MJPEG (1 << 2)
codec	Integer	Video codec 0: H.264 1: MJPEG 3: H.265
media_resolution_width_supported_<ch>_<i>index>	Integer	Ch from 0 to 2, 0 means main stream, 1 means sub stream, 2 means third stream
media_resolution_height_supported_<ch>_<i>index>		

Example: Get streams bitrates

`http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.options&codec=0`

Return:

```
var media_profile_video_codec_0 = '3'; var media_profile_video_codec_1 = '3'; var
media_profile_video_codec_2 = '3'; var media_profile_video_codec_3 = '3'; var
media_profile_video_codec_4 = '3';
```

2.1.12 get.stream.url

To get video stream url.

Usage:

`http://<IP>/cgi-bin/operator/operator.cgi?action=get.stream.url`

Example: Get video streams url

`http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.stream.url`

Return:

```
var rtsp_stream_url_0 = 'rtsp://192.168.2.166:554/main'; var rtsp_stream_url_1 =
'rtsp://192.168.2.166:554/sub'; var rtsp_stream_url_2 = 'rtsp://192.168.2.166:554/third'; var rtsp_stream_url_3
= 'rtsp://192.168.2.166:554/fourth'; var rtsp_stream_url_4 = 'rtsp://192.168.2.166:554/fifth'; var
http_stream_url_0 = 'http://192.168.2.166:80/ipcam/httpstream.cgi?streamtype=main'; var http_stream_url_1
= 'http://192.168.2.166:80/ipcam/httpstream.cgi?streamtype=cif'; var http_stream_url_2 =
'http://192.168.2.166:80/ipcam/httpstream.cgi?streamtype=third'; var http_stream_url_3 =
'http://192.168.2.166:80/ipcam/httpstream.cgi?streamtype=fourth'; var http_stream_url_4 =
'http://192.168.2.166:80/ipcam/httpstream.cgi?streamtype=fifth';
```

2.1.13 get.video.framerate

To get video Maximum Frame Rate List of each stream, each video codec and each resolution. (The result is returned with json format.)

Usage:

`http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.framerate`

Example : get video Maximum frame rate list

`http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.framerate`

Return:

```
{
  "stream_count": 3,           // means 3 streams
  "stream_0": {              //stream_0 is primary stream
    "h264": {
      "available_size": 9,    //9 resolutions of primary stream under H.264
      "resolution": [{
        "width": 3840,
        "height": 2160,
```

```

        "frame_rate": 20 //maximum framerate of this resolution
    }, {
        "width": 3072,
        "height": 2048,
        "frame_rate": 25
    }, {
        "width": 2592,
        "height": 1944,
        "frame_rate": 25
    }, {
        "width": 2592,
        "height": 1520,
        "frame_rate": 25
    }, {
        "width": 2048,
        "height": 1536,
        "frame_rate": 25
    }, {
        "width": 1920,
        "height": 1080,
        "frame_rate": 25
    }, {
        "width": 1280,
        "height": 960,
        "frame_rate": 25
    }, {
        "width": 1280,
        "height": 720,
        "frame_rate": 25
    }, {
        "width": 704,
        "height": 576,
        "frame_rate": 25
    }
    ]
},
"h265": {
    "available_size": 9, //9 resolutions of primary stream under H.265
    "resolution": [
        {
            "width": 3840,
            "height": 2160,
            "frame_rate": 20
        }, {
            "width": 3072,
            "height": 2048,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 704,
            "height": 576,
            "frame_rate": 25
        }
    ]
},
"mpeg": {
    "available_size": 4, //4 resolutions of primary stream under MJPEG
    "resolution": [
        {
            "width": 1920,
            "height": 1080,
            "frame_rate": 25
        }, {
            "width": 1280,

```



```

        "height": 960,
        "frame_rate": 25
    }, {
        "width": 1280,
        "height": 720,
        "frame_rate": 25
    }, {
        "width": 704,
        "height": 576,
        "frame_rate": 25
    }
}
},
"stream_1": { //stream_1 is secondary stream
    "h264": {
        "available_size": 7, //7 resolutions of secondary stream under H.264
        "resolution": [{
            "width": 704,
            "height": 576,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    ]
},
    "h265": {
        "available_size": 7, //7 resolutions of secondary stream under H.265
        "resolution": [{
            "width": 704,
            "height": 576,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    ]
},
    "mjpeg": {
        "available_size": 7, //7 resolutions of secondary stream under MJPEG
        "resolution": [{
            "width": 704,
            "height": 576,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    ]
}
},
"stream_2": { //stream_2 is tertiary stream
    "h264": {

```

```

        "available_size": 9, //9 resolutions of tertiary stream under H.264
        "resolution": [{
            "width": 1920,
            "height": 1080,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    ],
    "h265": {
        "available_size": 9, //9 resolutions of tertiary stream under H.265
        "resolution": [{
            "width": 1920,
            "height": 1080,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    ],
    "mjpeg": {
        "available_size": 9, //9 resolutions of tertiary stream under MJPEG
        "resolution": [{
            "width": 1920,
            "height": 1080,
            "frame_rate": 25
        },
        ..... (result is omitted here since it's too long to show)
        {
            "width": 320,
            "height": 180,
            "frame_rate": 25
        }
    }
}

```

2.2 Video Advanced

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
-------------	-------------	-------------

VIDEO ADVANCED	get.video.advanced	Get: Model name, sensor, local display video, rtsp port, OSD, audio parameters.
	set.video.advanced	Set: OSD, audio parameters.
	get.fishvideo.advanced	Get: (for fisheye camera) Model name, sensor, local display video, rtsp port, OSD, audio parameters.
	set.fishvideo.advanced	Get: (for fisheye camera) OSD, audio parameters.

2.2.1 get.video.advanced

To get other stream parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.video.advanced>

Parameter	Values	Description
system_deviceinformation_model	String	Device model name
system_deviceinformation_sensor	String	Sensor name
system_deviceinformation_tvstandards	Integer	Local display video -1: Off 0: NTSC 1: PAL
rtsp_port	Network port	RTSP port number
imaging_settings_osd_text_enabled	Boolean	Enable text OSD 0: No 1: Yes
imaging_settings_osd_text_string	String, max 20	Text OSD string
imaging_settings_osd_datetime_enabled	Boolean	Enable Date & Time OSD 0: No 1: Yes
imaging_settings_osd_font_size	An unsigned integer 0 ~ 5	Select OSD font size 0: Smallest 1: Small 2: Medium 3: Large 4: Largest 5: Auto
imaging_settings_osd_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_background_enable	Boolean	Enable Primary Stream OSD background color 0: No 1: Yes

imaging_settings_osd_background_color	String, max 6	Primary Stream OSD background color For Example: 255:0:0
imaging_settings_osd_text_position	An unsigned integer 0 ~ 3	Osd Text Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_datetime_position	An unsigned integer 0 ~ 3	Osd Date Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_datetime_format	An unsigned integer 0 ~ 2	Osd Date Format 0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY
imaging_settings_osd_sub_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_sub_text_string	String, max 20	Text OSD string
imaging_settings_osd_sub_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
imaging_settings_osd_sub_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0 : Smallest 1 : Small 2 : Medium 3 : Large 4 : Largest 5 : Auto
imaging_settings_osd_sub_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_sub_background_enabled	Boolean	Enable Secondary Stream OSD background color 0: No 1: Yes
imaging_settings_osd_sub_background_color	String, max 6	Secondary Stream OSD background color For Example: 255:0:0

imaging_settings_osd_sub_text_position	An unsigned integer 0 ~ 3	Osd Text Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_sub_datetime_position	An unsigned integer 0 ~ 3	Osd Date Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_sub_datetime_format	An unsigned integer 0 ~ 2	Osd Date Format 0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY
imaging_settings_osd_third_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_third_text_string	String, max 20	Text OSD string
imaging_settings_osd_third_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
imaging_settings_osd_third_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0 : Smallest 1 : Small 2 : Medium 3 : Large 4 : Largest 5 : Auto
imaging_settings_osd_third_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_third_background_enabled	Boolean	Enable Tertiary Stream OSD background color 0: No 1: Yes
imaging_settings_osd_third_background_color	String, max 6	Tertiary Stream OSD background color For Example: 255:0:0
imaging_settings_osd_third_text_position	An unsigned integer 0 ~ 3	Osd Text Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right

imaging_settings_osd_third_datetime_position	An unsigned integer 0 ~ 3	OsD Date Position 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_third_datetime_format	An unsigned integer 0 ~ 2	OsD Date Format 0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY
		<i>Above items can be referred to Figure 2-2-1-1</i>
media_profile_dptz_id (not implemented)	2,4	DPTZ(Digital Pan Tilt Zoom) video source ID 2: channel 3&4 4: channel 5&6
media_profile_dptz_enabled (not implemented)	Boolean	Enable DPTZ 0 : No 1 : Yes
media_profile_dptz_horzoffset (not implemented)	An unsigned integer	DPTZ top left X coordinates
media_profile_dptz_vertoffset (not implemented)	An unsigned integer	DPTZ top left Y coordinates
media_profile_dptz_width (not implemented)	An unsigned integer	DPTZ width
media_profile_dptz_height (not implemented)	An unsigned integer	DPTZ height
system_misc_audiooutvolume	An integer -73 ~ 6	Audio output volume (db) 6 is mean +6db
audio_setting_enabled	Boolean	Enable audio-in source 0: Disable 1: Enable
audio_setting_codec	An unsigned integer 1 ~ 5	Select audio encode format 1: AAC LC 2: G.711 u-Law 3: G.711 a-Law 4: G.722 5: G.726
audio_setting_source	Boolean	Select audio-in source 0: MIC 1: Line-in
audio_setting_mode	An unsigned integer 0~ 2	Audio mode 0: Only mic 1: Only speaker 2: Both audio input and output
audio_setting_denoise	Boolean	Audio denoise 0: Disable 1: Enable
audio_setting_input_gain	An integer 0 ~ 100	Audio input gain
audio_setting_alarm_level	An integer 0 ~ 100	Audio alarm level
audio_setting_output_volume	An integer 0 ~ 100	Output volume
		<i>Above items can be referred to Figure 2-2-1-2</i>
model_hardware_mic	Integer	Support mic 0: No

		1: Yes
model_hardware_linein	Integer	Support linein 0: No 1: Yes
audio_setting_output_agc	Integer	Output enable 0: No 1: Yes

Video Stream:	Primary Stream
Font Size:	Medium
Font Color:	<input type="text" value=""/>
Show Video Title:	<input type="checkbox"/>
Video Title:	Network Camera
Text Position:	Top-Left
Show Timestamp:	<input checked="" type="checkbox"/>
Date Position:	Top-Right
Date Format:	DD/MM/YYYY
Zoom Status:	5 seconds
Copy to Other Streams:	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3

Figure 2-2-1-1

Enable Audio:	<input checked="" type="checkbox"/>
Audio Mode:	Both Audio Input & Output
Audio Input	
Denoise:	<input type="checkbox"/>
Encoding:	G711-ULaw
Sample Rate:	8KHz
Input Gain:	<input type="range" value="50"/>
Audio Output	
Auto Gain Control:	<input type="checkbox"/>
Output Volume:	<input type="range" value="50"/>

Figure 2-2-1-2

Example: Get other stream parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.video.advanced>

Return:

```
var system_deviceinformation_model = 'MS-C2962-FIPB'; var rtsp_port = '554'; var system_misc_audiooutvolume = '-21'; var audio_setting_enabled = '1'; var audio_setting_codec = '2'; var audio_setting_source = '0'; var audio_setting_mode = '2'; var audio_setting_denoise = '1'; var audio_setting_input_gain = '89'; var audio_setting_alarm_level = '75'; var audio_setting_output_volume = '67'; var imaging_settings_osd_text_enabled = '1'; var imaging_settings_osd_text_string = '141-main'; var imaging_settings_osd_datetime_enabled = '1'; var imaging_settings_osd_font_size = '2'; var imaging_settings_osd_font_color = '255:0:0'; var imaging_settings_osd_sub_text_enabled = '1'; var imaging_settings_osd_sub_text_string = '141-sub'; var imaging_settings_osd_sub_datetime_enabled = '1'; var imaging_settings_osd_sub_font_size = '2'; var imaging_settings_osd_sub_font_color = '255:0:0'; var imaging_settings_osd_third_text_enabled = '1'; var imaging_settings_osd_third_text_string = '141-third'; var
```

```
imaging_settings_osd_third_datetime_enabled = '1';var imaging_settings_osd_third_font_size = '2';var
imaging_settings_osd_third_font_color = '255:0:0'; var system_deviceinformation_sensor = 'imx290
'; var system_deviceinformation_tvstandards = -1'; var model_hardware_mic = '1'; var model_hardware_linein
= '0';
```

2.2.2 set.video.advanced

To set other stream parameters.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.video.advanced<parameter>=<value>
```

Example: Set other stream parameter

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.video.advanced&imaging_settings_osd_text_e
nabled=1&imaging_settings_osd_text_string=Bruce.milesight&imaging_settings_osd_datetime_enabled=1&i
maging_settings_osd_font_size=2&imaging_settings_osd_font_color=255:0:0&system_misc_audiooutvolum
e=-8&audio_setting_source=0&audio_setting_codec=1&audio_setting_enabled=1&system_deviceinformatio
n_tvstandards=0&system_misc_audiooutagc=1
```

2.2.3 get.fishvideo.advanced

To get other stream parameters.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.fishvideo.advanced
```

Parameter	Values	Description
system_deviceinformation_model	String	Device model name
system_deviceinformation_sensor	String	Sensor name
system_deviceinformation_tvstandards	Integer	Local display video -1: Off 0: NTSC 1: PAL
rtsp_port	Network port	RTSP port number
imaging_settings_osd_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_text_string	String, max 20	Text OSD string
imaging_settings_osd_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
Imaging_settings_osd_font_size	An unsigned integer 0 ~ 5	Select OSD font size 0 : Small 1 : Medium 2 : Standard 3 : Large 4 : Larger 5 : Auto
imaging_settings_osd_font_color	String, max 6	For Example: 255:0:0

imaging_settings_osd_background_enable	Boolean	Enable Primary Stream OSD background color 0: No 1: Yes
imaging_settings_osd_background_color	String, max 6	Primary Stream OSD background color For Example: 255:0:0
imaging_settings_osd_text_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_datatime_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_datatime_format	An unsigned integer 0 ~ 2	Text Position: 0:YYYY-MM-DD 1:MM/DD/YYYY 2:DD/MM/YYYY
imaging_settings_osd_sub_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_sub_text_string	String, max 20	Text OSD string
imaging_settings_osd_sub_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
Imaging_settings_osd_sub_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0 : Small 1 : Standard 2 : Medium 3 : Large 4 : Auto
imaging_settings_osd_sub_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_sub_background_enable	Boolean	Enable Secondary Stream OSD background color 0: No 1: Yes
imaging_settings_osd_sub_background_color	String, max 6	Secondary Stream OSD background color For Example: 255:0:0

imaging_settings_osd_sub_text_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_sub_datatime_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_sub_datatime_format	An unsigned integer 0 ~ 2	Text Position: 0:YYYY-MM-DD 1:MM/DD/YYYY 2:DD/MM/YYYY
imaging_settings_osd_third_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_third_text_string	String, max 20	Text OSD string
imaging_settings_osd_third_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
Imaging_settings_osd_third_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0 : Small 1 : Standard 2 : Medium 3 : Large 4 : Auto
imaging_settings_osd_third_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_third_background_enabled	Boolean	Enable Tertiary Stream OSD background color 0: No 1: Yes
imaging_settings_osd_third_background_color	String, max 6	Tertiary Stream OSD background color For Example: 255:0:0
imaging_settings_osd_third_text_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_third_datatime_position	An unsigned integer 0 ~ 3	Text Position: 0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
imaging_settings_osd_third_datatime_format	An unsigned integer 0 ~ 2	Text Position: 0:YYYY-MM-DD 1:MM/DD/YYYY 2:DD/MM/YYYY

imaging_settings_osd_fourth_text_enabled	Boolean	Enable text OSD 0 : No 1 : Yes
imaging_settings_osd_fourth_text_string	String, max 20	Text OSD string
imaging_settings_osd_fourth_datetime_enabled	Boolean	Enable Date & Time OSD 0 : No 1 : Yes
Imaging_settings_osd_fourth_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0 : Small 1 : Standard 2 : Medium 3 : Large 4 : Auto
imaging_settings_osd_fourth_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_fourth_background_enabled	Boolean	Enable Fourth Stream OSD background color 0: No 1: Yes
imaging_settings_osd_fourth_background_color	String, max 6	Fourth Stream OSD background color For Example: 255:0:0
imaging_settings_osd_fourth_text_position	An unsigned integer 0 ~ 3	Text Position: 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_fourth_datetime_position	An unsigned integer 0 ~ 3	Text Position: 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_fourth_datetime_format	An unsigned integer 0 ~ 2	Text Position: 0: YYYY-MM-DD 1: MM/DD/YYYY 2: DD/MM/YYYY

imaging_settings_osd_fifth_text_enabled	Boolean	Enable text OSD 0: No 1: Yes
imaging_settings_osd_fifth_text_string	String, max 20	Text OSD string
imaging_settings_osd_fifth_datetime_enabled	Boolean	Enable Date & Time OSD 0: No 1: Yes
Imaging_settings_osd_fifth_font_size	An unsigned integer 0 ~ 4	Select OSD font size 0: Small 1: Standard 2: Medium 3: Large 4: Auto
imaging_settings_osd_fifth_font_color	String, max 6	For Example: 255:0:0
imaging_settings_osd_fifth_background_enabled	Boolean	Enable Fifth Stream OSD background color 0: No 1: Yes
imaging_settings_osd_fifth_background_color	String, max 6	Fifth Stream OSD background color For Example: 255:0:0
imaging_settings_osd_fifth_text_position	An unsigned integer 0 ~ 3	Text Position: 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_fifth_datetime_position	An unsigned integer 0 ~ 3	Text Position: 0: Top-Left 1: Top-Right 2: Bottom-Left 3: Bottom-Right
imaging_settings_osd_fifth_datetime_format	An unsigned integer 0 ~ 2	Text Position: 0: YYYY-MM-DD 1: MM/DD/YYYY 2: DD/MM/YYYY
		<i>Above items can be referred to Figure 2-2-3-1</i>
media_profile_dptz_id (not implemented)	2,4	DPTZ(Digital Pan Tilt Zoom) video source ID

		2: channel 3&4 4: channel 5&6
media_profile_dptz_enabled (not implemented)	Boolean	Enable DPTZ 0 : No 1 : Yes
media_profile_dptz_horzoffset (not implemented)	An unsigned integer	DPTZ top left X coordinates
media_profile_dptz_vertoffset (not implemented)	An unsigned integer	DPTZ top left Y coordinates
media_profile_dptz_width (not implemented)	An unsigned integer	DPTZ width
media_profile_dptz_height (not implemented)	An unsigned integer	DPTZ height
system_misc_audiooutvolume	An integer -73 ~ 6	Audio output volume (db) 6 is mean +6db
audio_setting_enabled	Boolean	Enable audio-in source 0: Disable 1: Enable
audio_setting_codec	An unsigned integer 1 ~ 3	Select audio encode format 1: AAC LC 2: G.711 u-Law 3: G.711 a-Law
audio_setting_source	Boolean	Select audio-in source 0: MIC 1: Line-in
audio_setting_mode	An unsigned integer 0~ 2	Audio mode 0: Only mic 1: Only speaker 2: Both mic and speaker
audio_setting_denoise	Boolean	Audio denoise 0: Disable 1: Enable
audio_setting_input_gain	An integer 0 ~ 100	Audio input gain
audio_setting_alarm_level	An integer 0 ~ 100	Audio alarm level
audio_setting_output_volume	An integer 0 ~ 100	Output volume
		<i>Above items can be referred to Figure 2-2-3-2</i>
model_hardware_mic	Integer	Support mic 0: No 1: Yes
model_hardware_linein	Integer	Support linein 0: No 1: Yes

Video Stream:	Channel 01
Font Size:	Medium
Font Color:	<input type="text" value=""/>
Show Video Title:	<input type="checkbox"/>
Video Title:	Network Camera
Text Position:	Top-Left
Show Timestamp:	<input type="checkbox"/>
Date Position:	Top-Right
Date Format:	DD/MM/YYYY
Copy to Other Streams:	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5

Figure 2-2-3-1

Enable Audio:	<input type="checkbox"/>
Audio Mode:	Both Audio Input & Output
Audio Input	
Denoise:	<input checked="" type="checkbox"/>
Encoding:	G711-ULaw
Sample Rate:	8KHz
Input Gain:	<input type="range" value="50"/>
Audio Output	
Auto Gain Control:	<input checked="" type="checkbox"/>
Output Volume:	<input type="range" value="80"/>

Figure 2-2-3-2

Example: Get other stream parameter

<http://192.168.11.110/cgi-bin/operator/operator.cgi?action=get.fishvideo.advanced>

Return:

```
var system_deviceinformation_model = 'MS-C9674-PB'; var rtsp_port = '554'; var
system_misc_audiooutvolume = '-34'; var audio_setting_enabled = '0'; var audio_setting_codec = '2'; var
audio_setting_source = '0'; var audio_setting_mode = '2'; var audio_setting_denoise = '0'; var
audio_setting_input_gain = '50'; var audio_setting_alarm_level = '75'; var audio_setting_output_volume = '50';
var imaging_settings_osd_text_enabled = '1'; var imaging_settings_osd_text_string = '1111111'; var
imaging_settings_osd_datetime_enabled = '0'; var imaging_settings_osd_font_size = '1'; var
imaging_settings_osd_sub_text_enabled = '1'; var imaging_settings_osd_sub_text_string = '222222'; var
imaging_settings_osd_sub_datetime_enabled = '0'; var imaging_settings_osd_sub_font_size = '1'; var
imaging_settings_osd_third_text_enabled = '0'; var imaging_settings_osd_third_text_string = 'Network
Camera'; var imaging_settings_osd_third_datetime_enabled = '0'; var imaging_settings_osd_third_font_size
= '1'; var imaging_settings_osd_fourth_text_enabled = '0'; var imaging_settings_osd_fourth_text_string =
'Network Camera'; var imaging_settings_osd_fourth_datetime_enabled = '0'; var
imaging_settings_osd_fourth_font_size = '1'; var imaging_settings_osd_fifth_text_enabled = '0'; var
imaging_settings_osd_fifth_text_string = ''; var imaging_settings_osd_fifth_datetime_enabled = '0'; var
imaging_settings_osd_fifth_font_size = '0'; var system_deviceinformation_sensor = 'imx226
'; var system_deviceinformation_tvstandards = '-1'; var model_hardware_mic = '1'; var model_hardware_linein
= '0';
```

2.2.4 set.fishvideo.advanced

To set other stream parameters.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.fishvideo.advanced&<parameter>=<value>
```

Example: Set other stream parameters

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.fishvideo.advanced&imaging_settings_osd_text_enabled=1&imaging_settings_osd_text_string=milesight&imaging_settings_osd_datetime_enabled=1&imaging_settings_osd_font_size=2&imaging_settings_osd_font_color=255:0:0&system_misc_audiooutvolume=-8&audio_setting_source=0&audio_setting_codec=1&audio_setting_enabled=1&system_deviceinformation_tvstandards=0
```

2.3 Camera Settings

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
VIDEO GENERAL	get.camera.setting	Get: Local display video, image parameters(brightness, saturation, DNR, contrast), exposure, day/night mode, IR value, white balance, WDR, HLC, resolution, corridor, and other enhancement image settings.
	set.camera.setting	Set: Image parameters(brightness, saturation, DNR, contrast), exposure, day/night mode, white balance, WDR, HLC, corridor, and other enhancement image settings.
	set.camera.loaddefault	Reset camera (not implement), reboot camera
	get.camera.daynight	Get day/night mode settings.
	set.camera.daynight	Set day/night mode settings.
	get.camera.mask	Get privacy mask.
	set.camera.mask	Set privacy mask.
	get.camera.dntimer	Get day/night schedule settings.
	set.camera.dntimer	Set day/night schedule settings.
	get.camera.mask	Get privacy mask settings.
	set.camera.mask	Set privacy mask settings.
	get.camera.roi	Get ROI settings.
	set.camera.roi	Set ROI settings.
	get.camera.lens	Get Lens settings.
set.camera.lens	Set Lens settings.	

2.3.1 get.camera.setting

To get camera parameters.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.setting>

Parameter	Values	Description
imaging_settings_tvstandards	An integer -1~1	Select video source standard. -1 : Off 0 : NTSC 1 : PAL
imaging_settings_brightness	An unsigned integer 0~255	Image brightness Web:brightness*255/100+0.5
imaging_settings_colorsaturation	An unsigned integer 0~255	Image saturation Web:saturation*255/100+0.5
imaging_settings_hue (not implemented)	An unsigned integer 0~100	Image Hue
imaging_settings_nf_level	An unsigned integer 0~100	DNR3D level
imaging_settings_dnr2_level	An unsigned integer 0~100	DNR2D level
imaging_settings_contrast	An unsigned integer 0~255	Image contrast Web:contrast*255/100+0.5
		<i>Refer to Figure 2-3-1-1 for the above.</i>
imaging_settings_powerlinefreq	An unsigned integer 0~1	Power Line Frequency 0: 60HZ 1: 50HZ
imaging_settings_ircutfilter	An unsigned integer 0~3	Select Day/Night Mode. 0: Auto Mode 1: Night mode 2: Day mode 3: Customize
imaging_settings_daytonight_value	An unsigned integer 1~90	90 is mean max level.
imaging_settings_nighttoday_value	An unsigned integer 11~100	100 is mean max level. <i>Nighttoday value is at least 10 greater than the daytonight value.</i>
imaging_settings_irsensor_value	An unsigned integer 0~100	Get IR Light Sensor Value
imaging_settings_ircr_dayhour	An unsigned integer 0~23	Start time of Night. (hour)
imaging_settings_ircr_dayminute	An unsigned integer 0~59	Start time of Night. (minute)
imaging_settings_ircr_nighthour	An unsigned integer 0~23	End time of Night. (hour)
imaging_settings_ircr_nightminute	An unsigned integer 0~59	End time of Night. (minute)
imaging_settings_door_mode	An unsigned integer 0,1	Select Outdoor/Indoor Mode. 0: Outdoor, 1: Indoor
imaging_settings_mirror_horizontal	An unsigned integer	Horizontal mirror image. 1: Enable

	0,1	
imaging_settings_mirror_vertical	An unsigned integer 0,1	Vertical flip image. 1: Enable
imaging_settings_mirror_corridor	An unsigned integer 0,1,2	Corridor Mode. 0: OFF, 1: Clockwise 90° 2: Anticlockwise 90°
imaging_settings_image_rotation	An unsigned integer 0,1,2,3	Image Rotation 0: OFF 1: Rotating 180° 2: Flip Horizontal 3: Flip Vertical
imaging_settings_aspect_ratio	An unsigned integer 0~2	Aspect Ratio Enable 0:Off 1:On
		<i>Refer to Figure 2-3-1-2 for the above.</i>
imaging_settings_whitebalance_mode	An unsigned integer 0~6	Select white balance mode 0: Auto, 1: Manual, 2: Incandescent, 3: Warm, 4: Natural, 5: Flurescent 6: Schedule
imaging_settings_whitebalance_red_gain	An unsigned integer 0~100	100 is mean max level.
imaging_settings_whitebalance_blue_gain	An unsigned integer 0~100	100 is mean max level.
imaging_settings_exposure_mode	An unsigned integer 0~1	Exposure mode. 0: Auto 1: Manual 2: Schedule
imaging_settings_exposure_exposuretime	An unsigned integer 0~12	Select max. exposure time. 0: 1/5 1: 1/10 2: 1/25 or 1/30 3: 1/50 or 1/60 4: 1/100 or 1/120 5: 1/250 6: 1/500 7: 1/750 8: 1/1000 9: 1/2000 10: 1/4000 11: 1/10000 12: 1/100000 13: 1
imaging_settings_exposure_gain	An unsigned integer 0~100	100 is mean max level.
imaging_settings_enblur	An unsigned integer 0~1	Reduce Motion Blur Enable 0:Off 1:On
imaging_settings_deblur	An unsigned integer 1~100	Deblur Level

imaging_settings_focus_mode	An unsigned integer 0~2	Focus Mode 0:Auto 1:Semi-Auto 2:Manual
imaging_settings_aspect_ratio	An unsigned integer 0~1	Aspect Ratio Enable 0:Off 1:On
imaging_settings_zoom_limit	An unsigned integer 0~4	Zoom Limit 0: max optical zoom 1: 2*max optical zoom 2: 4*max optical zoom 3: 8*max optical zoom 4: 16*max optical zoom
imaging_settings_smart_ir_mode	An unsigned integer 0~1	Smart IR mode: 0:Auto Mode 1:Customize
imaging_settings_near_view_ir_level	An unsigned integer 0~100	Near View IR Level
imaging_settings_middle_view_ir_level	An unsigned integer 0~100	Middle View IR Level
imaging_settings_far_view_ir_level	An unsigned integer 0~100	Far View IR Level
imaging_settings_near_ir_strength_value	An unsigned integer 0~100	Near IR Strength Level
imaging_settings_mid_ir_strength_value	An unsigned integer 0~100	Middle IR Strength Level
imaging_settings_far_ir_strength_value	An unsigned integer 0~100	Far IR Strength Level
imaging_settings_white_led_level	An unsigned integer 0~100	White LED Level
imaging_settings_dn_switch_refocus	An unsigned integer 0~1	Day/Night Switch Refocus 0: Off 1: On
imaging_settings_digital_image_stabilisation	An unsigned integer 0,1	Digital Image Stabilisation. 1: Enable
imaging_settings_reduce_stuttering	An unsigned integer 0~2	Reduce Stuttering Enable 0:Off 1:On
imaging_settings_d2n_sensitivity	An unsigned integer 1~10	Day to night sensitivity (for the camera model which without IR sensor)
imaging_settings_n2d_sensitivity	An unsigned integer 1~10	Night to day sensitivity (for the camera model which without IR sensor)
imaging_settings_schedule_mode	An unsigned integer 0~2	Image Enhancement Mode 0: Single Mode 1: Day/Night Mode 2: Schedule Mode
imaging_settings_aewindows_0	An unsigned	AE window X (BLC)

	integer 0~15	
imaging_settings_aewindows_1	An unsigned integer 0~14	AE window Y (BLC)
imaging_settings_aewindows_2	An unsigned integer 0~15	AE window Width (BLC)
imaging_settings_aewindows_3	An unsigned integer 0~14	AE window Height (BLC)
imaging_settings_blc_region_left	An unsigned integer 0~1000	left of BLC Region
imaging_settings_blc_region_top	An unsigned integer 0~1000	top of BLC Region
imaging_settings_blc_region_right	An unsigned integer 0~1000	right of BLC Region
imaging_settings_blc_region_bottom	An unsigned integer 0~1000	bottom of BLC Region
imaging_settings_blc_exclusive	An unsigned integer 0~1	BLC Region: 0: inclusive 1: exclusive
imaging_settings_wdr_mode	An unsigned integer 0~2	Wide Dynamic Range Mode(WDR) 0:Off 1:On 2:Customize
imaging_settings_wdr_starthour	An unsigned integer 0~23	Start hour for WDR Customize Mode
imaging_settings_wdr_startminute	An unsigned integer 0~59	Start minute for WDR Customize Mode
imaging_settings_wdr_stophour	An unsigned integer 0~23	Stop hour for WDR Customize Mode
imaging_settings_wdr_stopminute	An unsigned integer 0~59	Stop minute for WDR Customize Mode
imaging_settings_wdr_level	An unsigned integer 0~2	WDR level 0:low 1:high 2: auto(MSHC) 0:low 1:medium 2:high(MSAC)
imaging_settings_wdr_aflevel	An unsigned integer 0~10	WDR anti-flicker Level
imaging_settings_hlc_mode	An unsigned integer 0~1	High Light Compensation Mode(Should be with WDR off) 0:Off 1:On
imaging_settings_hlc_level	An unsigned integer 0~100	High Light Compensation Level 100 mean max level
		<i>Refer to Figure 2-3-1-3 for the above.</i>

imaging_settings_sensor_mode	An unsigned integer 0~1	ADC mode 1: Enable
imaging_settings_voutstandards (not implemented)	An unsigned integer 0,1	Video output standard 0 NTSC, 1 PAL
imaging_settings_iricr_gpinstatus (not implemented)	An unsigned integer 0,1	GPIN status for Day for ICR/LEN control 0: close, 1: open
imaging_settings_pir_duration (not implemented)	An unsigned integer 5~30	PIR duration (sec) for ICR/LEN control
imaging_settings_pir_sensitivity (not implemented)	An unsigned integer 10~100	PIR sensitivity for ICR/LEN control
media_profile_url	String	Stream path(main)
media_profile_resolution_width	Integer	Resolution
media_profile_resolution_height		
imaging_settings_whitebalance_taskday<ch>	String	Whitebalance schedule such as: imaging_settings_whitebalance_taskday 0: 01:10:10:00:1:0:0:0;11:00:13:00:2:0:0:0; start time:01:10 stop time:10:00 type:1 start time:11:00 stop time:13:00 type:2 Type: 1: Manual White Balance 2: Incandescent Lamp 3: Warm Light Lamp 4: Natural Lamp 5: Fluorescent Lamp
imaging_settings_exposure_taskday<ch>	String	Exposure schedule such as: imaging_settings_exposure_taskday0: 01:10:10:00:1:0:2:50;11:00:13:00:1:0:2:50; start time:01:10 stop time:10:00 start time:11:00 stop time:13:00
imaging_settings_distort_correct	Boolean	Enable Lens Distort Correct 0: No 1: Yes <i>Note: for panoramic mini bullet</i>
imaging_settings_fov_adjust	An unsigned integer 1~10	Fov Adjustment <i>Note: for panoramic mini bullet</i>
imaging_settings_smoked_dome_cover	Boolean	Smoked Dome Cover 0: Off 1: On
imaging_settings_ir_balance_mode	Boolean	IR Balance Mode 0: Off 1: On
imaging_settings_defog_mode	Boolean	Defog Mode 0: Off 1: On
imaging_settings_antifog_intensity	An unsigned integer 0~100	Anti-fog intensity
imaging_settings_day_enhancement_mode	An unsigned integer 0~2	Day Enhancement Mode 0: BLC 1: WDR 2: HLC

imaging_settings_night_enhancement_mode	An unsigned integer 0~2	Night Enhancement Mode 0: BLC 1: WDR 2: HLC
imaging_settings_blc_wdr_hlc_taskday1	String	Exposure schedule such as: imaging_settings_exposure_taskday0: 01:10:10:00:1:0:0:0;11:00:13:00:2:0:0:0; start time:01:10 stop time:10:00 Type: 1 start time:11:00 stop time:13:00 Type: 2 Type: 0: BLC 1: WDR 2: HLC

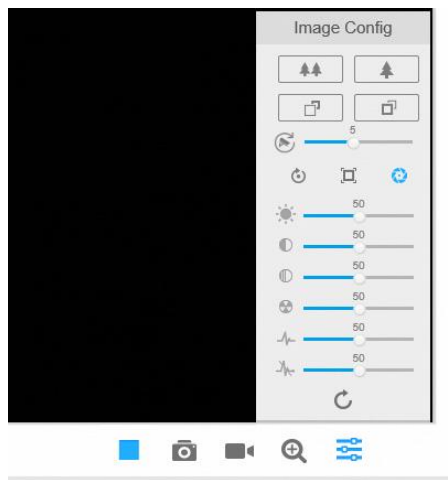


Figure 2-3-1-1

Basic Settings >> Image

Display Enhancement Day/Night Mode OSD Privacy Mask ROI

Power Line Frequency:	60Hz	▼
Day/Night Mode:	Auto Mode	▼
Day to Night Value:	36	Reset
Night to Day Value:	82	Reset
IR Light Sensor Value:	100	↻
Smart IR Mode:	Auto Mode	▼
IR Strength Value:	Near: 0 Far: 0	↻
Day/Night Switch Refocus:	On	▼
Outdoor/Indoor Mode:	Outdoor	▼
Corridor Mode:	Off	▼
Image Rotation:	Off	▼
Local Display Video:	Off	▼
Keep Correct Aspect Ratio :	Off	▼

Figure 2-3-1-2

IR Balance Mode:	Off
White Balance:	Auto White Balance
Reduce Motion Blur:	Off
Reduce Video Stuttering:	Off
Focus Mode:	Semi-Auto
Defog Mode:	Off
Digital Image Stabilisation:	Off
Exposure Mode:	Auto Mode
<input checked="" type="radio"/> Single Mode <input type="radio"/> Day/Night Mode <input type="radio"/> Schedule Mode	
<input type="radio"/> BLC <input checked="" type="radio"/> WDR <input type="radio"/> HLC	
Wide Dynamic Range:	On
Wide Dynamic Level:	Auto
Anti-flicker Level:	0

Figure 2-3-1-3

Example: Get camera parameters
<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.setting>

Return:

```
var imaging_settings_powerlinefreq = '1'; var imaging_settings_tvstandards = '-1'; var
imaging_settings_brightness = '50'; var imaging_settings_colorsaturation = '50'; var imaging_settings_hue =
'50'; var imaging_settings_nf_level = '50'; var imaging_settings_dnr2_level = '50'; var
imaging_settings_contrast = '50'; var imaging_settings_exposure_mode = '1'; var
imaging_settings_whitebalance_mode = '3'; var imaging_settings_whitebalance_red_gain = '50'; var
imaging_settings_whitebalance_blue_gain = '50'; var imaging_settings_door_mode = '1'; var
imaging_settings_digital_image_stabilisation = '0'; var imaging_settings_daytonight_value = '30'; var
imaging_settings_nighttoday_value = '50'; var imaging_settings_sensor_mode = '0'; var
imaging_settings_distort_correct = '0'; var imaging_settings_enblur = '0'; var imaging_settings_deblur =
'43'; var imaging_settings_exposure_maxexposuretime = '2'; var imaging_settings_exposure_maxgain = '0';
var imaging_settings_ircutfilter = '0'; var imaging_settings_led_mode = '0'; var imaging_settings_focus_mode
= '2'; var imaging_settings_mirror_horizontal = '0'; var imaging_settings_mirror_vertical = '0'; var
imaging_settings_iricr_dayhour = '2'; var imaging_settings_iricr_dayminute = '10'; var
imaging_settings_iricr_nighthour = '6'; var imaging_settings_iricr_nightminute = '20'; var
imaging_settings_iricr_gpinstatus = '0'; var imaging_settings_iricr_gpnumber = '0'; var
imaging_settings_pir_duration = '0'; var imaging_settings_pir_sensitivity = '10'; var
imaging_settings_aewindows_0 = '0'; var imaging_settings_aewindows_1 = '0'; var
imaging_settings_aewindows_2 = '0'; var imaging_settings_aewindows_3 = '0'; var media_profile_url =
'main'; var media_profile_resolution_width = '1920'; var media_profile_resolution_height = '1080'; var
imaging_settings_aspect_ratio = '0'; var imaging_settings_reduce_stuttering = '0';
```

2.3.2 set.camera.setting

To set camera parameters.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.setting&<parameter>=<value>>

Example: Set camera parameters

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.setting&imaging_settings_powerlinefreq=0&imaging_settings_brightness=128&imaging_settings_colorsaturation=128&imaging_settings_contrast=128&imaging_settings_exposure_mode=1&imaging_settings_exposure_maxexposuretime=1&imaging_settings_mirror_horizontal=0&imaging_settings_mirror_vertical=0&imaging_settings_iricr_dayhour=16&imaging_settings_iricr_dayminute=0&imaging_settings_iricr_nighthour=6&imaging_settings_iricr_nightminute=0&imaging_settings_aewindows_1=0&imaging_settings_aewindows_2=0&imaging_settings_aewindows_3=0&imaging_settings_nighttoday_value=82&imaging_settings_sensor_mode=1&imaging_settings_daytonight_value=36&imaging_settings_door_mode=1&imaging_settings_whitebalance_taskday0=00:00:07:12:1:0:0:0;8:42:13:14:2:0:0:0;&imaging_settings_whitebalance_taskday6=15:07:21:41:3:0:0:0;imaging_settings_distort_correct=1&imaging_settings_enblur=1&imaging_settings_deblur=85&imaging_settings_focus_mode=1&imaging_settings_d2n_sensitivity=5&imaging_settings_n2d_sensitivity=5&imaging_settings_near_view_ir_level=44&imaging_settings_middle_view_ir_level=49&imaging_settings_far_view_ir_level=88&imaging_settings_ir_balance_mode=0&imaging_settings_defog_mode=0&imaging_settings_antifog_intensity=50&imaging_settings_exposure_taskday5=06:57:10:06:1:0:2:50;&imaging_settings_blc_wdr_hlc_taskday0=00:00:24:00:1:0:0:0;&imaging_settings_zoom_limit=0
```

2.3.3 set.camera.loaddefault (reset is not implemented, just reboot)

To set camera parameter to default value.

Example: Set camera parameter to default value

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.loaddefault
```

2.3.4 set.camera.settings.bwmode (not implemented)

To set camera B/W mode.

2.3.5 set.camera.settings.maxgain (not implemented)

To set camera gain for auto mode.

2.3.6 get.camera.daynight

To get camera day/night mode settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.daynight
```

Parameter	Values	Description
imaging_settings_day_exposurelevel	An unsigned integer 0~10	Day Mode exposure level 10 mean max level
imaging_settings_day_maxexposuretime	An unsigned integer 0~12	Day Mode minimum shutter time 0: 1/5 1: 1/10 2: 1/25 or 1/30 3: 1/50 or 1/60 4: 1/100 or 1/120 5: 1/250 6: 1/500 7: 1/750 8: 1/1000 9: 1/2000 10: 1/4000 11: 1/10000 12: 1/100000 13: 1
imaging_settings_day_maxshutter	An unsigned integer 0~12	Day Mode max shutter time 0: 1/5 1: 1/10

		2: 1/25 or 1/30 3: 1/50 or 1/60 4: 1/100 or 1/120 5: 1/250 6: 1/500 7: 1/750 8: 1/1000 9: 1/2000 10: 1/4000 11: 1/10000 12: 1/100000 13: 1
imaging_settings_day_limit_gain	An unsigned integer 1~100	Limit gain
imaging_settings_day_ircutinterval	An unsigned integer 1~20	Day Mode ir cut status change interval
imaging_settings_day_ircutstatus	Boolean	Day Mode ir cut status 0: Off 1: On
imaging_settings_day_irmedstatus	Boolean	Day Mode ir led status 0: Off 1: On
imaging_settings_day_colormode	Boolean	Day Mode color mode 0: B/W Mode 1: Color Mode
imaging_settings_night_exposurelevel	An unsigned integer 0~10	Night Mode exposure level 10 mean max level
imaging_settings_night_maxexposuretime	An unsigned integer 0~12	Night Mode minimum shutter time 0: 1/5 1: 1/10 2: 1/25 or 1/30 3: 1/50 or 1/60 4: 1/100 or 1/120 5: 1/250 6: 1/500 7: 1/750 8: 1/1000 9: 1/2000 10: 1/4000 11: 1/10000 12: 1/100000 13: 1
imaging_settings_night_maxshutter	An unsigned integer 0~12	Night Mode max shutter time 0: 1/5 1: 1/10 2: 1/25 or 1/30 3: 1/50 or 1/60 4: 1/100 or 1/120 5: 1/250 6: 1/500 7: 1/750 8: 1/1000 9: 1/2000 10: 1/4000 11: 1/10000 12: 1/100000 13: 1
imaging_settings_night_limit_gain	An unsigned integer 1~100	Limit gain
imaging_settings_night_ircutinterval	An unsigned integer 1~20	Night Mode ir cut status change interval
imaging_settings_night_ircutstatus	Boolean	Night Mode ir cut status

		0: Off 1: On
imaging_settings_night_iredstatus	Boolean	Night Mode ir led status 0: Off 1: On
imaging_settings_night_colormode	Boolean	Night Mode color mode 0: B/W Mode 1: Color Mode
imaging_settings_day_whiteledstatus	Boolean	Day Mode White LED satus 0: Off 1: On
imaging_settings_night_whiteledstatus	Boolean	Night Mode White LED satus 0: Off 1: On

Display Enhancement **Day/Night Mode** OSD Privacy Mask ROI



Day/Night Mode

Day/Night Mode	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED	Color Mode
Night Mode:	5	1/25	1/100000	100	5s	Off	On	B/W
Day Mode:	5	1/25	1/100000	100	5s	On	Off	Color

Example: Get camera parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.daynight>

Return:

```
var imaging_settings_day_exposurelevel = '5'; var imaging_settings_day_maxexposuretime = '2'; var
imaging_settings_day_maxshutter = '12'; var imaging_settings_day_limit_gain = '100'; var
imaging_settings_day_ircutinterval = '5'; var imaging_settings_day_ircutstatus = '1'; var
imaging_settings_day_iredstatus = '0'; var imaging_settings_day_whiteledstatus = '0'; var
imaging_settings_day_colormode = '1'; var imaging_settings_night_exposurelevel = '5'; var
imaging_settings_night_maxexposuretime = '2'; var imaging_settings_night_maxshutter = '12'; var
imaging_settings_night_limit_gain = '100'; var imaging_settings_night_ircutinterval = '5'; var
imaging_settings_night_ircutstatus = '0'; var imaging_settings_night_iredstatus = '1'; var
imaging_settings_night_whiteledstatus = '0'; var imaging_settings_night_colormode = '0';
```

2.3.7 set.camera.daynight

To set camera day/night mode settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.daynight&<parameter>=<value>>

Example:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.daynight&imaging_settings_day_exposurelevel=5&imaging_settings_day_maxexposuretime=2&imaging_settings_day_maxshutter=12&imaging_settings_day_limit_gain=100&imaging_settings_day_ircutinterval=10&imaging_settings_day_ircutstatus=1&imaging_settings_day_iredstatus=0&imaging_settings_day_colormode=1&imaging_settings_night_exposurelevel=5&imaging_settings_night_maxexposuretime=2&imaging_settings_night_maxshutter=12&imaging_settings_night_limit_gain=100&imaging_settings_night_ircutinterval=10&imaging_settings_night_ircutstatus=0&imaging_settings_night_iredstatus=1&imaging_settings_night_colormode=0&imaging_settings_day_limit_gain=100&imaging_settings_day_whiteledstatus=0&imaging_settings_night_whiteledstatus

2.3.8 get.camera.dntimer

To get camera day/night schedule settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.dntimer>

Parameter	Values	Description
imaging_day_night_schedule<ch>	String	Day/Night Schedule such as 10000240005021210004000 1: enable this schedule 00002400: start time: 00:00 stop time: 24:00 05: exposure level: 5 (0~10) 02: minimum shutter: 1 : 13 1/5 : 00 1/15 : 01 1/30 : 02 1/60 : 03 1/120 : 04 1/250 : 05 1/500 : 06 1/750 : 07 1/1000 : 08 1/2000 : 09 1/4000 : 10 1/10000 : 11 1/100000 : 12 12: maximum shutter: as above 100: limit gain level: 100(1~100) 04: IR-cut latency: 5s n means n+1s 0: IR-cut: 0 : Off 1 : On 0: LED: 0 : All LED Off 1 : IR LED On 2 : White LED On 0: color mode: 0 : BW 1 : Color

Display Enhancement **Day/Night Mode** OSD Privacy Mask ROI

Day/Night Mode

Day/Night Mode	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED	Color Mode
Night Mode:	5	1/25	1/100000	100	5s	Off	On	B/W
Day Mode:	5	1/25	1/100000	100	5s	On	Off	Color

Schedule Mode

<input type="checkbox"/>	Timer	Exposure Level	Minimum Shutter	Maximum Shutter	Limit Gain Level	IR-CUT Latency	IR-CUT	IR LED	Color Mode
<input type="checkbox"/>	00:00 - 24:00	5	1/25	1/100000	100	5s	Off	Off	B/W
<input type="checkbox"/>	00:00 - 24:00	5	1/25	1/100000	100	5s	Off	Off	B/W
<input type="checkbox"/>	00:00 - 24:00	5	1/25	1/100000	100	5s	Off	Off	B/W
<input type="checkbox"/>	00:00 - 24:00	5	1/25	1/100000	100	5s	Off	Off	B/W
<input type="checkbox"/>	00:00 - 24:00	5	1/25	1/100000	100	5s	Off	Off	B/W

Example: Get camera day/night schedule

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.dntimer>

Return:

```
var imaging_day_night_schedule0 = '10000240005021210004120'; var imaging_day_night_schedule1 = '00000240005021210004000'; var imaging_day_night_schedule2 = '00000240005021210004000'; var imaging_day_night_schedule3 = '00000240005021210004000'; var imaging_day_night_schedule4 = '00000240005021210004000';
```

Example: Get camera parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.dntimer&format=inf>

Return: INF format

```
[CAMERA_DAYNIGHT_SCHEDULE]
imaging_day_night_schedule0=10000240005021210004120
imaging_day_night_schedule1=00000240005021210004000
imaging_day_night_schedule2=00000240005021210004000
imaging_day_night_schedule3=00000240005021210004000
imaging_day_night_schedule4=00000240005021210004000
```

2.3.9 set.camera.dntimer

To set camera day/night schedule settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.dntimer&<parameter>=<value>>

Parameter	Values	Description
imaging_day_night_schedule_all	An unsigned integer 0~1	Enable all Day/Night schedule 0: No 1: Yes

Example: Set image day/night schedule

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.dntimer&imaging_day_night_schedule1=10000220005021210004120

Example: Set image day/night schedule

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.dntimer&imaging_day_night_schedule_all=1

2.3.10 get.camera.mask

To get camera privacy mask settings.

Usage:

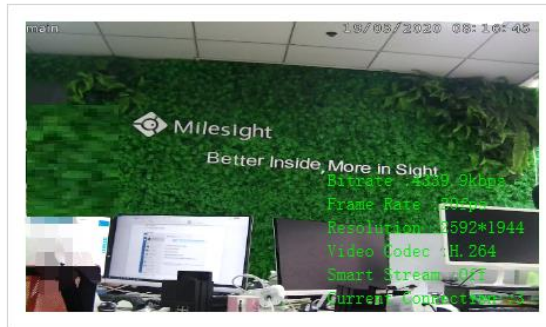
<http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.mask>

Parameter	Values	Description
imaging_settings_mask_enable	An unsigned integer 0~1	Enable privacy mask
imaging_settings_mask_max_ratio	An unsigned integer	Max of Mask Active Zoom Ratio
imaging_settings_mask_num	An unsigned integer	Maximum number of masks
imaging_settings_mosaic_num	An unsigned integer	Maximum number of mosaics
imaging_settings_mask_color_list	String	Support mask color list such as 0,1,2,3,4,5,6,7 0:White 1:Black 2:Blue 3:Yellow 4:Green 5:Brown 6:Red 7:Violet
imaging_settings_mask_different_color	An unsigned integer	Support different color mask 1: support 0: not support
imaging_settings_mask_type	An unsigned integer 0~8 Only For general model	Privacy mask type 0:White 1:Black 2:Blue 3:Yellow 4:Green 5:Brown 6:Red 7:Violet 8:Mosaic
imaging_settings_mask_x<ch>	An unsigned integer 0~100	Top left X coordinates
imaging_settings_mask_y<ch>	An unsigned integer 0~100	Top left Y coordinates
imaging_settings_mask_width<ch>	An unsigned integer 0~100	Privacy mask window width
imaging_settings_mask_height<ch>	An unsigned integer 0~100	Privacy mask window height
imaging_settings_mask_type<ch>	An unsigned integer 0~8	Privacy mask type 0:White 1:Black 2:Blue 3:Yellow 4:Green 5:Brown 6:Red 7:Violet 8:Mosaic
imaging_settings_mask_show<ch>	An unsigned integer 0~1	Enable PTZ mask show 0:Disable 1:Enable

imaging_settings_mask_ratio<ch>	An unsigned integer Speed Dome:1~30 PTZ Bullet:1~12	Mask Zoom Ratio
imaging_settings_mask_name<ch>	String, max 32	PTZ Mask Name

Note: Speed Dome and PTZ Bullet<ch>:0~7, General model<ch>:0~3

Privacy Mask ROI



Clear All

Enable:

Type:

Save

Note: Support up to 8 Privacy Mask areas.

Example: Get camera parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.mask>

Return:

```
var imaging_settings_mask_enable = '1'; var imaging_settings_mask_num = '8'; var
imaging_settings_mask_max_ratio = '12'; var imaging_settings_mask_x0 = '10'; var
imaging_settings_mask_y0 = '10'; var imaging_settings_mask_width0 = '10'; var
imaging_settings_mask_height0 = '10'; var imaging_settings_mask_x1 = '0'; var imaging_settings_mask_y1 =
'0'; var imaging_settings_mask_width1 = '10'; var imaging_settings_mask_height1 = '0'; var
imaging_settings_mask_x2 = '0'; var imaging_settings_mask_y2 = '0'; var imaging_settings_mask_width2 =
'10'; var imaging_settings_mask_height2 = '0'; var imaging_settings_mask_x3 = '0'; var
imaging_settings_mask_y3 = '0'; var imaging_settings_mask_width3 = '10'; var
imaging_settings_mask_height3 = '0'; var imaging_settings_mask_type = '0';
```

Example: Get camera parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.mask&format=inf>

Return: INF format

```
[CAMERA_MASK_SETTING]
imaging_settings_mask_enable = 1;
imaging_settings_mask_num=8;
imaging_settings_mask_max_ratio=12;
imaging_settings_mask_x0 = 10;
imaging_settings_mask_y0 = 10;
imaging_settings_mask_width0 = 10;
imaging_settings_mask_height0 = 10;
imaging_settings_mask_x1 = 0;
imaging_settings_mask_y1 = 0;
imaging_settings_mask_width1 = 0;
imaging_settings_mask_height1 = 0;
imaging_settings_mask_x2 = 0;
imaging_settings_mask_y2 = 0;
imaging_settings_mask_width2 = 0;
imaging_settings_mask_height2 = 0;
```

```

imaging_settings_mask_x3 = 0;
imaging_settings_mask_y3 = 0;
imaging_settings_mask_width3 = 0;
imaging_settings_mask_height3 = 0;
imaging_settings_mask_type = 0;

```

2.3.11 set.camera.mask

To set camera privacy mask settings.

Parameter	Values	Description
imaging_settings_mask_delete	An unsigned integer 0~7	Delect privacy mask
imaging_settings_mask_delete_all	An unsigned integer 0~1	Delect All privacy mask 1: Yes 0: No

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.mask<parameter>=<value>
```

Example: Set image privacy mask

```

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.mask&imaging_settings_mask_enable=1&imaging_settings_mask_x0=10&imaging_settings_mask_y0=10&imaging_settings_mask_width0=10&imaging_settings_mask_height0=10&imaging_settings_mask_type0=1&imaging_settings_mask_show0=1&imaging_settings_mask_ratio0=1&imaging_settings_mask_name0=PrivacyMask1&imaging_settings_mask_edit=0

```

2.3.12 get.camera.roi

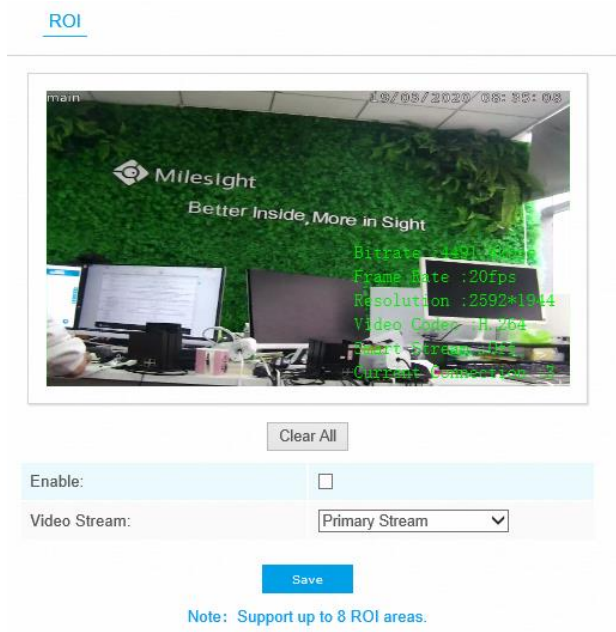
To get camera ROI settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.roi
```

Parameter	Values	Description
imaging_settings_roi_enable	An unsigned integer 0~1	Enable ROI 0: No 1: Yes
imaging_settings_roi<ch>	String	ROI Region such as 1:88:2:11:16 1: enable this roi (0~1) 88: Top left X coordinates (0~100) 2: Top left Y coordinates (0~100) 11: ROI window width (0~100) 16: ROI window height (0~100) <ch>: Primary Stream: 0~7 Secondary Stream: 8~15 Tertiary Stream: 16~23 Fourth Stream: 24~31 Fifth Stream: 32~39

Note: Fisheye<ch>:0~39, General model<ch>:0~23



Example: Get camera ROI parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.roi>

Return:

```
var imaging_settings_roi_enable = '1'; var imaging_settings_roi0 = '1:0:0:9:15'; var imaging_settings_roi1 = '1:43:2:14:17'; var imaging_settings_roi2 = '1:88:2:11:16'; var imaging_settings_roi3 = '1:4:6:14:23'; var imaging_settings_roi4 = '1:46:85:11:14'; var imaging_settings_roi5 = '1:87:88:12:12'; var imaging_settings_roi6 = '1:45:40:18:20'; var imaging_settings_roi7 = '1:50:50:50:50'; var imaging_settings_roi8 = '0:0:0:0:0'; var imaging_settings_roi9 = '0:0:0:0:0'; var imaging_settings_roi10 = '0:0:0:0:0'; var imaging_settings_roi11 = '0:0:0:0:0'; var imaging_settings_roi12 = '0:0:0:0:0'; var imaging_settings_roi13 = '0:0:0:0:0'; var imaging_settings_roi14 = '0:0:0:0:0'; var imaging_settings_roi15 = '0:0:0:0:0'; var imaging_settings_roi16 = '0:0:0:0:0'; var imaging_settings_roi17 = '0:0:0:0:0'; var imaging_settings_roi18 = '0:0:0:0:0'; var imaging_settings_roi19 = '0:0:0:0:0'; var imaging_settings_roi20 = '0:0:0:0:0'; var imaging_settings_roi21 = '0:0:0:0:0'; var imaging_settings_roi22 = '0:0:0:0:0'; var imaging_settings_roi23 = '0:0:0:0:0';
```

2.3.13 set.camera.roi

To set camera ROI settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.roi<parameter>=<value>
```

Parameter	Values	Description
imaging_settings_roi_delete	An unsigned integer	Delete that roi: Primary Stream: 0~7 Secondary Stream: 8~15 Tertiary Stream: 16~23 Fourth Stream: 24~31 Fifth Stream: 32~39

Example: Set image ROI

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.roi&imaging_settings_roi_enable=1&imaging_settings_roi7=1:50:50:50:50

2.3.14 get.camera.lens

To get camera lens settings.

Usage:


```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.lens
```

Parameter	Values	Description
imaging_settings_lens_iris_mode	An unsigned integer 0~1	Iris Mode: 0: Manual Iris 1: Auto Iris
imaging_settings_lens_iris_type	An unsigned integer	Lens Type: 0: Manual 1: DC-Iris 2: P-Iris (Just for Pro Box)
imaging_settings_lens_zoom_pos	An unsigned integer 0~100	Zoom Position

Example: Get camera lens settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.lens
```

Return:

```
var imaging_settings_lens_iris_type = '0'; var imaging_settings_lens_iris_mode = '1';
```

2.3.15 set.camera.lens

To set camera lens settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.lens<parameter>=<value>
```

Example: Set image Lens Type

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.lens&imaging_settings_lens_iris_type=0
```

2.4 Camera PTZ

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
CAMERA PTZ	get.camera.ptz	Get: PTZ protocol, PTZ speed, baud rate.
	set.camera.ptz	Set: PTZ protocol, PTZ speed, baud rate.
	get.auto.tracking	Get auto tracking parameters.
	set.auto.tracking	Set auto tracking parameters.
	get.track.point	Get tracking route.
	get.auto.home	Get auto home parameters.
	set.auto.home	Set auto home.
	get.ptz.basic	Get: PTZ OSD(zoom/ pan&tilt/ preset status), preset freezing setting, preset speed, focus mode, power off memory...

set.ptz.basic	Set: PTZ OSD(zoom/ pan&tilt/ preset status), preset freezing setting, preset speed, focus mode, power off memory...
get.ptz.limit	Get PTZ Limits configurations.
set.ptz.limit	Set PTZ Limits configurations.
set.initial.position	Set Initial Position configurations.
get.scheduled.tasks	Get Scheduled Tasks configurations.
set.scheduled.tasks	Set Scheduled Tasks configurations.
set.ptz.clear	Clear PTZ configurations.

2.4.1 get.camera.ptz

To get PTZ/Serial port parameter.(for speed dome)

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.camera.ptz>

Parameter	Values	Description
ptz_setting_enable	An unsigned integer 0~1	Enable PTZ control. (fixed value 1) 0 : No 1 : Yes
ptz_setting_protocol	An unsigned integer 0~3	Select PTZ protocol 0 : PelcoD 1 : PelXXX 2 : Lilin 3 : DynaColor
ptz_setting_deviceid	An integer	PTZ device ID (fixed value 0)
ptz_setting_speed	An unsigned integer 1~10	PTZ speed
ptz_setting_channel	An unsigned integer 0~3	PTZ mapping to video-in (fixed value 0)
system_serial_buadrate	An unsigned integer 300,1200,2400, 4800,9600, 19200,38400, 57500,115200	Baud rate for serial port
system_serial_databit (not implemented)	An unsigned integer 7,8	Data bits for serial port
system_serial_stopbit (not implemented)	An unsigned integer 0,1	Stop bits for serial port
system_serial_parity (not implemented)	An unsigned integer 0~2	Parity for serial port 0 None,
system_serial_flowcontrol (not implemented)	An unsigned integer 0~2	Flow control for serial port

Protocol:	<input checked="" type="radio"/> Pelco-D <input type="radio"/> Pelco-P
Baudrate:	9600
Data Bit:	8
Stop Bit:	1
Parity:	None
Flow Control:	None
PTZ Address:	1

Save

Example: Get PTZ/Serial port parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.camera.ptz>

Return:

```
ptz_setting_channel[0] = '0'; ptz_setting_enable[0] = '1'; ptz_setting_protocol[0] = '0'; ptz_setting_deviceid[0] = '0'; ptz_setting_speed[0] = '9'; var system_serial_buadrate = '9600'
```

2.4.2 set.camera.ptz

To set PTZ/Serial port parameter

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.camera.ptz<parameter>=<value>
```

Example: set the PTZ enable

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.camera.ptz&ptz_setting_protocol=0&ptz_setting_speed=5&system_serial_buadrate=2400

2.4.3 get.auto.tracking

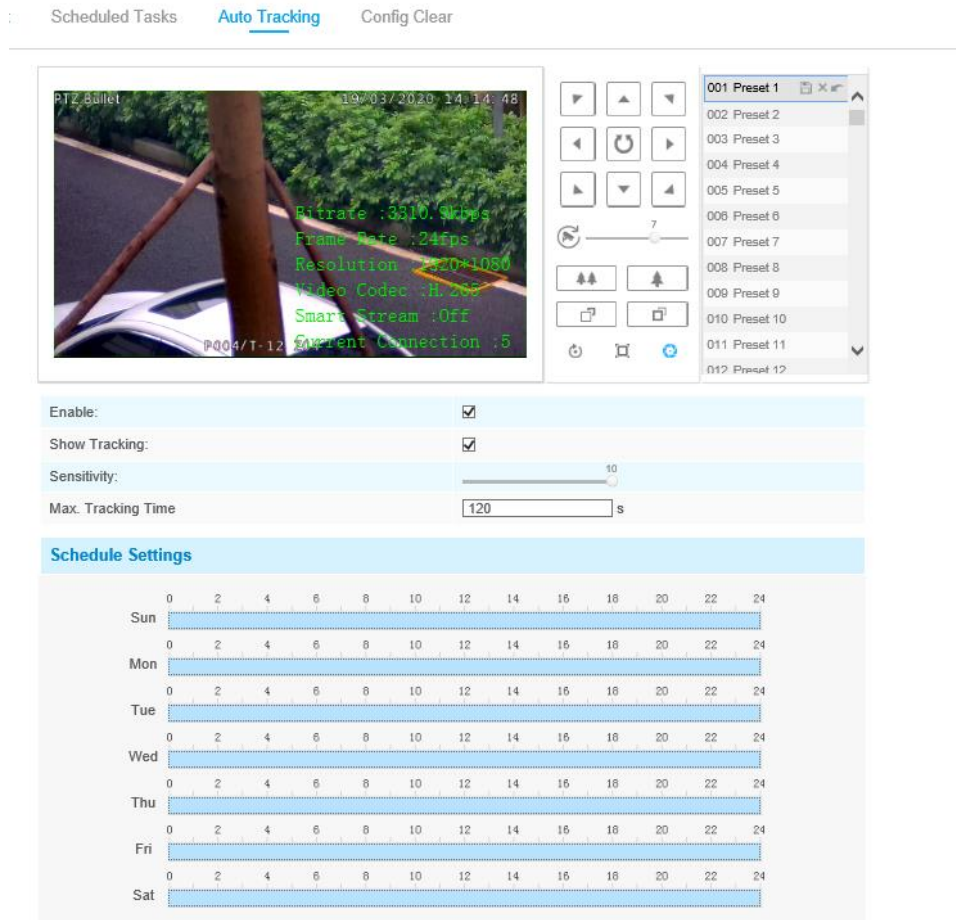
To get Auto Tracking parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.auto.tracking
```

Parameter	Values	Description
auto_tracking_enable	An unsigned integer 0~1	Enable AutoTracking. 0: No 1: Yes (PTZ Motion / LPR and Auto Tracking are mutually exclusive.)
auto_tracking_show	An unsigned integer 0~1	Enable Show Tracking. 0: No 1: Yes
auto_tracking_sensitivity	An unsigned integer 1~10	AutoTracking Sensitivity
auto_tracking_max_time	An unsigned integer 5~300	Max Tracking Time
auto_tracking_zoom_mode	An unsigned integer 0~1	Auto Tracking Zoom Ratio 0: Auto 1: Customize

auto_tracking_zoom_number	An unsigned integer	Auto Tracking Zoom Ratio Settings
auto_tracking_schedule_<ch>	String	AutoTracking schedule such as: auto_tracking_schedule_0: 01:10:10:00;11:00:13:00;14:00:24:00; start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00
manual_tracking	Boolean	Enable Manual Tracking 0: No 1: Yes



Example: Get Auto Tracking parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.auto.tracking>

Return:

```
var auto_tracking_enable = '0'; var auto_tracking_show = '0'; var auto_tracking_sensitivity = '5'; var auto_tracking_max_time = '30'; var auto_tracking_zoom_mode = '1'; var auto_tracking_zoom_number = '5'; var auto_tracking_schedule[0] = '06:50:14:17;'; var auto_tracking_schedule[1] = ''; var auto_tracking_schedule[2] = '04:17:04:36;'; var auto_tracking_schedule[3] = '04:27:07:01;08:45:10:27;'; var auto_tracking_schedule[4] = ''; var auto_tracking_schedule[5] = '08:32:10:16;'; var auto_tracking_schedule[6] = ''; var manual_tracking = '0';
```

2.4.4 set.auto.tracking

To set Auto Tracking parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.auto.tracking&<parameter>=<value>>

Example: set the Auto Tracking enable

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.auto.tracking&auto_tracking_enable=1&auto_tracking_show=0&auto_tracking_sensitivity=5&auto_tracking_max_time=30&auto_tracking_zoom_mode=0&auto_tracking_schedule_1=11:00:14:00
```

Example: Schedule Select All:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.auto.tracking&auto_tracking_enable=1&auto_tracking_show=0&auto_tracking_sensitivity=5&auto_tracking_max_time=30&auto_tracking_schedule_all=1
```

Example: Schedule Clear All:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.auto.tracking&auto_tracking_enable=1&auto_tracking_show=0&auto_tracking_sensitivity=5&auto_tracking_max_time=30&auto_tracking_schedule_all=0
```

Parameter	Values	Description
manual_tracking_region	String	Manual Tracking Region. Such as: 95.73:73.44:117.89:94.22 95.73: width of start point (max: 256) 73.44: height of start point (max: 256) 117.89: width of destination point (max: 256) 94.22: height of destination point (max: 256)

Example: Set Manual Tracking

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.auto.tracking&manual_tracking=1&manual_tracking_region=95.73:73.44:117.89:94.22
```

2.4.5 get.track.point

To get show tracking point.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.track.point
```

Parameter	Values	Description
track_point_num	An unsigned integer 0~1	Show Track Count
id[index]	An unsigned integer	
type[index]	An unsigned integer	-2:Auto Tracking 0:unknown 1:Person
startX[index]	An unsigned integer	start point X coordinates of person rectangle
startY[index]	An unsigned integer	start point Y coordinates of person rectangle
stopX[index]	An unsigned integer	stop point X coordinates of person rectangle
stopY[index]	An unsigned integer	stop point X coordinates of person rectangle

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.track.point
```

Return:

```
var media_profile_resolution_width = '2048'; var media_profile_resolution_height = '1536'; var
```

```
track_point_num = '1'; var id[0] = '0'; var type[0] = '-2'; var startX[0] = '0'; var stopX[0] = '819'; var startY[0] = '512'; var stopY[0] = '1484';
```

2.4.6 get.auto.home

To get Auto Tracking parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.auto.home
```

Parameter	Values	Description
auto_home_enable	An unsigned integer 0~1	Enable AutoHome. 0: No 1: Yes
auto_home_latency_time	An unsigned integer 5~720	Auto Home Latency Time.
auto_home_mode	An unsigned integer 0~2	Auto Home Mode
auto_home_mode_number	An unsigned integer 0~300	Auto Home Mode Number Current Location: 0



Enable:	<input checked="" type="checkbox"/>
Latency Time(5-720s):	<input type="text" value="5"/> s
Auto Home Mode:	<input type="text" value="Preset"/>
Auto Home Mode Number:	<input type="text" value="Preset 1"/> <input type="button" value="Call"/>

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.auto.home
```

Return:

```
var auto_home_enable = '1'; var auto_home_latency_time = '60'; var auto_home_mode = '0'; var auto_home_mode_number = '260';
```

2.4.7 set.auto.home

To set Auto Home parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.auto.home<parameter>=<value>
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.auto.home&auto_home_enable=1&auto_home
```

latency_time=60&auto_home_mode=0&auto_home_mode_number=0

2.4.8 get.ptz.basic

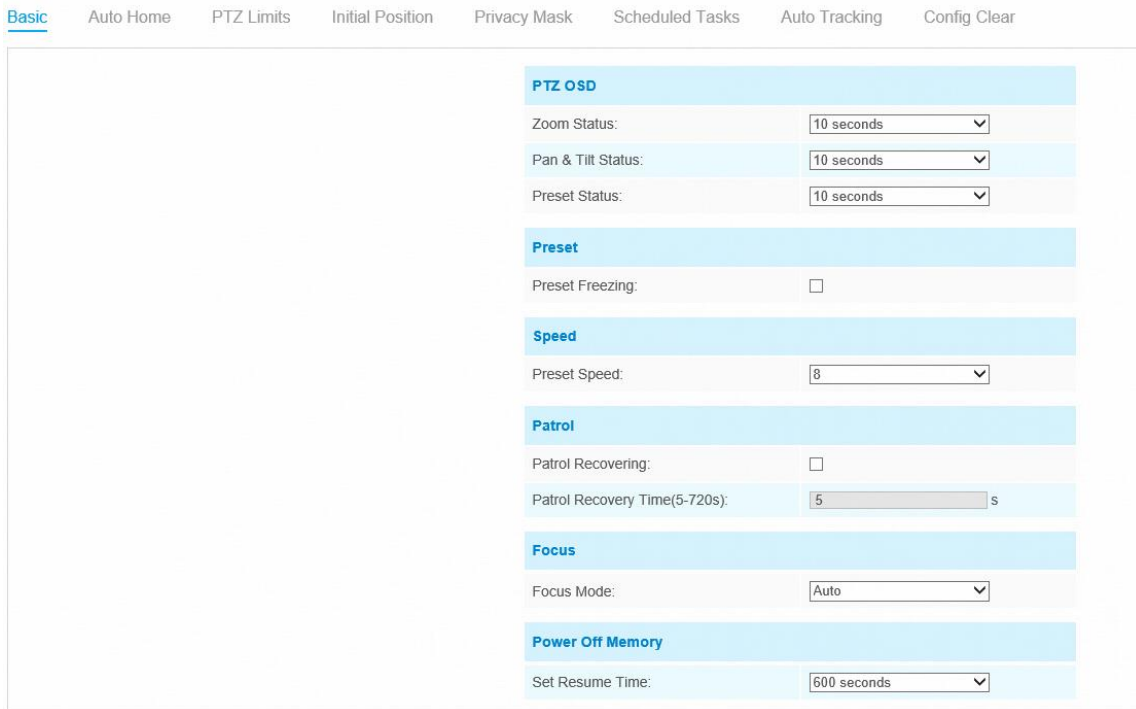
To get PTZ Basic parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.ptz.basic>

Parameter	Values	Description
ptz_basic_zoom_status	An unsigned integer 0~4	PTZ OSD- Zoom Status. 0: always close 1: always open 2: 2 seconds 3: 5 seconds 4: 10 seconds
ptz_basic_pan_tilt_status	An unsigned integer 0~4	PTZ OSD- Pan & Tilt Status. 0: always close 1: always open 2: 2 seconds 3: 5 seconds 4: 10 seconds
ptz_basic_preset_status	An unsigned integer 0~4	PTZ OSD- Preset Status. 0: always close 1: always open 2: 2 seconds 3: 5 seconds 4: 10 seconds
ptz_basic_patrol_status	Boolean	Patrol Status. 0: always close 1: always open
ptz_basic_pattern_status	Boolean	Pattern Status 0: always close 1: always open
ptz_basic_autoscan_status	Boolean	Auto Scan Status. 0: always close 1: always open
ptz_basic_preset_freezing	Boolean	Preset Freezing: 0: No 1: Yes
ptz_basic_preset_speed	An unsigned integer 1~10	Preset Speed
ptz_basic_manual_speed	An unsigned integer 1~3	Manual Speed 1: Low 2: Medium 3: High
ptz_basic_patrol_recovering	Boolean	Patrol Recovering 0: No 1: Yes
ptz_basic_patrol_recovery_time	An unsigned integer 5~720	Patrol Recovery Time
ptz_basic_focus_mode	An unsigned integer 0~2	Focus Mode: 0: Auto 1: Semi-Auto 2: Manual
ptz_basic_min_focus_distance	An unsigned integer 0~5	Minimum Focus Distance 0: 1 meter 1: 1.5 meter 2: 3 meter 3: 6 meter 4: 10 meter

		5: 20 meter
ptz_basic_resume_time	An unsigned integer 0~4	Set Resume Time for Power Off Memory: 0: disable 1: 30 seconds 2: 60 seconds 3: 300 seconds 4: 600 seconds
ptz_basic_fan_working_mode	An unsigned integer 0~2	Fan Working Mode 0: General 1: Enhancement 2: Constant



Example: Get PTZ Basic parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.ptz.basic>

Return:

```
var ptz_basic_zoom_status = '5'; var ptz_basic_pan_tilt_status = '1'; var ptz_basic_preset_status = '2'; var
ptz_basic_patrol_status = 0; var ptz_basic_autoscan_status = 0; var ptz_basic_preset_freezing = '0'; var
ptz_basic_preset_speed = '3'; var ptz_basic_manual_speed = '3'; var ptz_basic_patrol_recovering = '0'; var
ptz_basic_patrol_recovery_time = '360'; var ptz_basic_focus_mode = '2'; var ptz_basic_min_focus_distance
= '2'; var ptz_basic_resume_time = '60';
```

2.4.9 set.ptz.basic

To set PTZ Basic parameter.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.ptz.basic<parameter>=<value>
```

Example: set Ptz Basic

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.basic&ptz_basic_zoom_status=4&ptz_basic_pan_tilt_status=0&ptz_basic_preset_status=2&ptz_basic_preset_freezing=0&ptz_basic_preset_speed=3&ptz_basic_manual_speed=3&ptz_basic_patrol_recovering=0&ptz_basic_patrol_recovery_time=360&ptz_basic_focus_mode=1&ptz_basic_min_focus_distance=5&ptz_basic_resume_time=0

2.4.10 get.ptz.limit

To get PTZ Limit parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.ptz.limit>

Parameter	Values	Description
ptz_limit_mode	An unsigned integer 0, 1	Ptz Limit Mode. 0: Manual Limit, 1: Scan Limit,
ptz_limit_manual_enable	Boolean	Enable Manual Limit: 0: No 1: Yes
ptz_limit_manual_status	Boolean	Manual Status. 0: Not Limited 1: Limited
ptz_limit_scan_enable	Boolean	Enable Scan Limit: 0: No 1: Yes
ptz_limit_scan_status	Boolean	Scan Status. 0: Not Limited 1: Limited

PTZ Limits
Initial Position
Privacy Mask
Scheduled Tasks
Auto Tracking
Config Clear

001 Preset 1

002 Preset 2

003 Preset 3

004 Preset 4

005 Preset 5

006 Preset 6

007 Preset 7

008 Preset 8

009 Preset 9

010 Preset 10

011 Preset 11

012 Preset 12

Limit Mode:	Scan Limit
Enable:	<input type="checkbox"/>
Mode Status:	Not Limited
<input type="button" value="Set"/> <input type="button" value="Clear"/>	

Note: Please adjust the cameras' tilt angle greater than 0° to realize 360° pan!

Example: Get PTZ Limit parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.ptz.limit>

Return:

```
var ptz_limit_mode = '0'; var ptz_limit_manual_enable = '0'; var ptz_limit_manual_status = '1'; var ptz_limit_scan_enable = '0'; var ptz_limit_scan_status = '0';
```

2.4.11 set.ptz.limit

To set PTZ Limit parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.ptz.limit&<parameter>=<value>>

Parameter	Values	Description
ptz_limit_cmd	An unsigned integer 0~5	PTZ Limit Cmd. 0: PTZ Limit Cancel, 1: PTZ Limit Set, 2: PTZ Limit Set Left, 3: PTZ Limit Set Right, 4: PTZ Limit Set Down, 5: PTZ Limit Set Up, 6: PTZ Limit Clear, 7: PTZ Limit Save

Example: set PTZ Manual Limit

PTZ Limit Set:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=1&ptz_limit_mode=0

PTZ Limit Set Left:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=2

PTZ Limit Set Right:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=3

PTZ Limit Set Down(Speed Dome):

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=4

PTZ Limit Set Up(Speed Dome):

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=5

PTZ Limit Save:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=7&ptz_limit_mode=0&ptz_limit_enable=1

PTZ Limit Clear:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.limit&ptz_limit_cmd=6&ptz_limit_mode=0

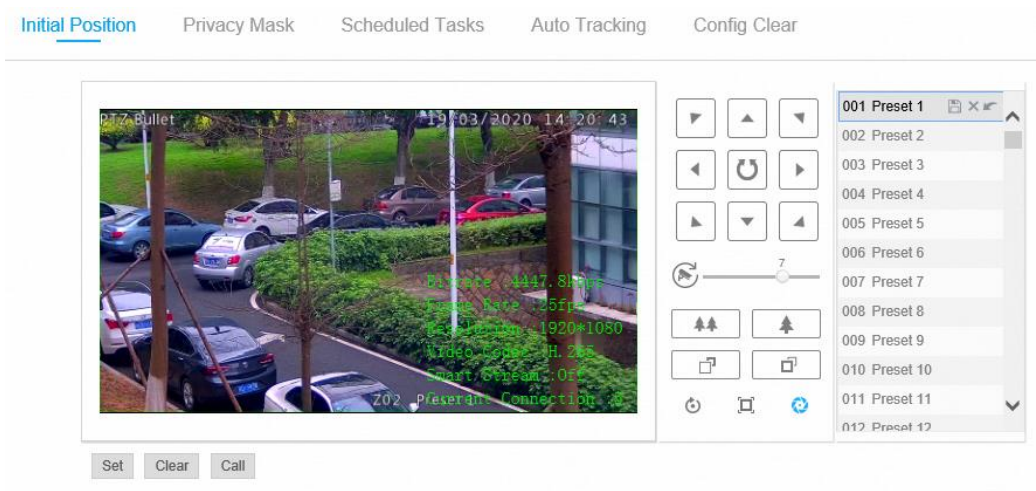
2.4.12 set.initial.position

To set PTZ Initial Position parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.initial.position&<parameter>=<value>>

Parameter	Values	Description
initial_position_cmd	An unsigned integer 0~2	PTZ Initial Position cmd. 0: PTZ Initial Position Set, 1: PTZ Initial Position Clear, 2: PTZ Initial Position Call,



Example: set PTZ Initial Position

PTZ Initial Position Set:

2.4.13 get.scheduled.tasks

To get PTZ Schedule Tasks parameter.

Usage:

http://<IP>/cgi-bin/operator/operator.cgi?action=get.schedule.tasks

Parameter	Values	Description
scheduled_tasks_enable	Boolean	Enable Scheduled Tasks. 0: No 1: Yes
scheduled_tasks_recovery_time	An unsigned integer 5~720	Tasks Recovery Time.
auto_tracking_schedule_<ch>	String	Tasks schedule such as: auto_tracking_schedule_0: 01:10:10:00:2:1;11:00:13:00:2:2; start time:01:10 stop time:10:00 type: 2 id: 1 start time:11:00 stop time:13:00 type: 2 id: 2 Type: 0 : Close 1: Auto Scan 2: Preset 3: Patrol 4: Pattern 5: Check 6: Tilt Scan 7: Panorama Scan Id: n: Preset/Patrol/Pattern n

Initial Position Privacy Mask **Scheduled Tasks** Auto Tracking Config Clear

Enable Scheduled Tasks:

Schedule Settings

Close ▼ Select All

Sun 0 2 4 6 8 10 12 14 16 18 20 22 24

Mon 0 2 4 6 8 10 12 14 16 18 20 22 24

Tue 0 2 4 6 8 10 12 14 16 18 20 22 24

Wed 0 2 4 6 8 10 12 14 16 18 20 22 24

Thu 0 2 4 6 8 10 12 14 16 18 20 22 24

Fri 0 2 4 6 8 10 12 14 16 18 20 22 24

Sat 0 2 4 6 8 10 12 14 16 18 20 22 24

Close

Auto Scan

Preset

Patrol

Pattern

Check

Clear All

Tasks Interference Settings

Tasks Recovery Time(5-720s): s

Save

Example: Get Ptz Schedule Tasks parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.scheduled.tasks>

Return:

```
var scheduled_tasks_enable = '0'; var scheduled_tasks_recovery_time = '5'; var
scheduled_tasks_schedule[0] = '00:00:24:00:7:0'; var scheduled_tasks_schedule[1] = '00:00:24:00:7:0'; var
scheduled_tasks_schedule[2] = '00:00:24:00:7:0'; var scheduled_tasks_schedule[3] = '00:00:24:00:7:0'; var
scheduled_tasks_schedule[4] = '00:00:24:00:7:0'; var scheduled_tasks_schedule[5] = '00:00:24:00:7:0'; var
scheduled_tasks_schedule[6] = '00:00:24:00:7:0';
```

Example: Get Ptz Schedule Tasks parameter

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.scheduled.tasks&format=inf>

Return: INF format

```
[SCHEDULED_TASKS]
scheduled_tasks_enable=0
scheduled_tasks_recovery_time=5
scheduled_tasks_schedule_0='00:00:24:00:7:0;'
scheduled_tasks_schedule_1='00:00:24:00:7:0;'
scheduled_tasks_schedule_2='00:00:24:00:7:0;'
scheduled_tasks_schedule_3='00:00:24:00:7:0;'
scheduled_tasks_schedule_4='00:00:24:00:7:0;'
scheduled_tasks_schedule_5='00:00:24:00:7:0;'
scheduled_tasks_schedule_6='00:00:24:00:7:0;'
```

2.4.14 set.scheduled.tasks

To set PTZ Scheduled Tasks parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.scheduled.tasks&<parameter>=<value>>

Example: set PTZ Scheduled Tasks

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.scheduled.tasks&scheduled_tasks_enable=0&scheduled_tasks_recovery_time=5&scheduled_tasks_schedule_1=11:00:14:00:1:0;15:00:18:00:2:1;

Example: select Ptz Scheduled Tasks All

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.scheduled.tasks&scheduled_tasks_schedule_all=7

2.4.15 set.ptz.clear

To set PTZ Clear parameter.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.ptz.clear&<parameter>=<value>>

Parameter	Values	Description
ptz_clear_cmd	An unsigned integer 0~511	PTZ Clear cmd. Clear All: 1 (1 << 0) Clear All Presets: 2 (1 << 1) Clear All Patrols: 4 (1 << 2) Clear All Patterns: 8 (1 << 3) Clear All Auto Homes: 16 (1 << 4) Clear All Ptz Limits: 32 (1 << 5) Clear Initial Position: 64 (1 << 6) Clear All Privacy Masks: 128 (1 << 7) Clear All Scheduled Tasks: 256 (1 << 8) <i>Note: just sum up the value when you</i>

need to clear multiple items.

Scheduled Tasks	Auto Tracking	Config Clear
Clear All:	<input type="checkbox"/>	
Clear All Presets:	<input type="checkbox"/>	
Clear All Patrols:	<input type="checkbox"/>	
Clear All Patterns:	<input type="checkbox"/>	
Clear All Auto Homes:	<input type="checkbox"/>	
Clear All PTZ Limits:	<input type="checkbox"/>	
Clear Initial Position:	<input type="checkbox"/>	
Clear All Privacy Masks:	<input type="checkbox"/>	
Clear All Scheduled Tasks:	<input type="checkbox"/>	

[Save](#)

Example: set PTZ Clear

PTZ Clear All Presets & Clear All Patterns:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.ptz.clear&ptz_clear_cmd=10

2.5 Storage Disk Information

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
STORAGE DISK INFORMATION	set.storage.format	Format SD card.
	record.start	Start recording. (set all time schedule)
	record.stop	Stop recording. (delete schedule)
	record.continue	Stop current record file and start a new one.
	get.recyclerecord	Get recycle storage settings. (for old models and old firmware)
	set.recyclerecord	Set recycle storage settings. (for old models and old firmware)
	get.record.status	Get record status.
	get.storage.settings	Get storage settings.
	set.storage.settings	Set storage settings.
	get.record.settings	Get recycle setting and recording schedule.
	set.record.settings	Set recycle storage and recording schedule.
	get.snapshot.settings	Get snapshot settings(schedule, interval, saved path).
set.snapshot.settings	Set snapshot settings(schedule, interval, saved path).	

2.5.1 [get.recordfile.format](#) (not implemented)

To get record information

2.5.2 set.recordfile.format (not implemented)

To set the format of the record files.

2.5.3 set.storage.format

To format SD Card.

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.storage.format
```

2.5.4 record.start

Start recording.

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=record.start
```

2.5.5 record.stop

Stop recording.

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=record.stop
```

2.5.6 record.continue

Stop current record file and start a new one.

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=record.continue
```

2.5.7 get.recyclerecord (deprecated)

Get recycle storage settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.recyclerecord
```

Parameter	Values	Description
recycle_storage_enable	Boolean	Enable Recycle Storage
sd_delete_percent	An unsigned integer 1~100	Delete Percent
sd_start_delete_size	An unsigned integer 10~65536	SD start delete when size beyond thresholds

Example: Get recycle storage settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.recyclerecord
```

Return:

```
var recycle_storage_enable = '1'; var sd_delete_percent = '25'; var sd_start_delete_size = '100';
```

2.5.8 set.recyclerecord (deprecated)

To set recycle storage settings.

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.recyclerecord&recycle_storage_enable=0&sd_delete_percent=25&sd_start_delete_size=200&sd_file_size=50
```

2.5.9 get.record.status

To get record status.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.record.status
```

Parameter	Values	Description
record_status	An unsigned integer 0~1	Current Record Status 1: Yes 0: No

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.record.status
```

Return:

```
var record_status = '0';
```

2.5.10 get.storage.settings

To get storage settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.storage.settings
```

Parameter	Values	Description
sdcard_total_size	An unsigned integer	SD Total Size: unit:KB
sdcard_free_size	An unsigned integer	SD Free Size: unit:KB
sdcard_use_size	An unsigned integer	SD Use Size: unit:KB
nas_address[index]	String	Server Address Note: index 0~4 (support 5 NAS)
nas_file_path[index]	String	File Path
nas_recycle[index]	Boolean	Recycle: 0: No 1: Yes
nas_mount_type[index]	An unsigned integer	Mounting Type: 0: NFS 1: SMB/CIFS
nas_total_size[index]	An unsigned integer	NAS Total Size: unit:KB
nas_free_size[index]	An unsigned integer	NAS Free Size: unit:KB
nas_user_name[index]	String	NAS User Name
nas_password[index]	String	NAS Password
nas_status[index]	An unsigned integer	0: unformatted 1: normal

		2: offline 3: formatting
--	--	-----------------------------

Example: Get storage settings

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.storage.settings>

Return:

```
var sdcard_total_size = '7746772'; var sdcard_free_size = '4718592'; var sdcard_use_size = '3028180'; var
nas_address[0] = '192.168.2.24'; var nas_file_path[0] = '\nas1'; var nas_recycle[0] = '0'; var nas_file_path[0] =
'1'; var nas_total_size[0] = '11533308'; var nas_free_size[0] = '9175040'; var nas_user_name[0] = 'zouwm';
var nas_password[0] = '1'; var nas_status[0] = '1';
```

2.5.11 set.storage.settings

To set storage settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.storage.settings&<parameter>=<value>>

Parameter	Values	Description
sdcard_format	An unsigned integer	Format SD card 0: No 1: Yes
nas_format_[index]	An unsigned integer	Format NAS 0: No 1: Yes Note: index 0~4
nas_delete_[index]	An unsigned integer	Delete NAS 0: No 1: Yes

Example: format sd card

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.storage.settings&sdcard_format=1

Example: format nas0

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.storage.settings&nas_format_0=1

Example: delete nas0

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.storage.settings&nas_delete_0=1

Example: add/edit nas0

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.storage.settings&nas_address_0=192.168.2.24&nas_file_path_0=\nas1&nas_mount_type_0=1&nas_user_name_0=zouwm&nas_password_0=1

2.5.12 get.record.settings

To get record settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.record.settings>

Parameter	Values	Description
recycle_storage_enable	Boolean	Enable Recycle Storage
pre_record_time	An unsigned integer	Pre Record time n means n seconds
record_schedule_<ch>	String	Record schedule such as: record_schedule_0: 1011010001100130014002400 1:enable 0:disable

	<p>011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00</p> <p>Note: ch 0~6 (Sun~Sat)</p>
--	--

Example: Get record settings

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.record.settings

Return:

```
var recycle_storage_enable = '1'; var record_schedule[0] = '100002400000000000000000'; var
record_schedule[1] = '1000024000000000000000000000'; var record_schedule[2] =
'1000024000000000000000000000'; var record_schedule[3] = '1000024000000000000000000000'; var
record_schedule[4] = '1000024000000000000000000000'; var record_schedule[5] =
'1000024000000000000000000000'; var record_schedule[6] = '1000024000000000000000000000';
```

2.5.13 set.record.settings

To set record settings.

Usage:

http://<IP>/cgi-bin/operator/operator.cgi?action=set.record.settings<parameter>=<value>

Example: Set record settings

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.record.settings&recycle_storage_enable=1&rec
ord_schedule_0=1000024000000000000000000000

2.5.14 get.snapshot.settings

To get snapshot settings.

Usage:

http://<IP>/cgi-bin/operator/operator.cgi?action=get.snapshot.settings

Parameter	Values	Description
timing_snapshot_enable	Boolean	Enable Recycle Storage
record_schedule_<ch>	String	Record schedule such as: record_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 Note: ch 0~6 (Sun~Sat)
interval_value	An unsigned integer	
interval_unit	An unsigned integer	0:millisecond 1:second 2:minute 3:hour 4:day
save_into_storage	Boolean	Enable save into storage
storage_filename_type	An unsigned integer	0:Add Time Suffix 1:Overwrite with the base file name

storage_base_filename	String	Base File Name
upload_via_ftp	Boolean	Enable upload via ftp
upload_via_smtp	Boolean	Enable upload via smtp

Example: Get snapshot settings

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.snapshot.settings>

Return:

```
var timing_snapshot_enable = '1'; var interval_value = '1'; var interval_unit = '3'; var save_into_storage = '1';
var storage_filename_type = '1'; var storage_base_filename = 'image'; var upload_via_ftp = '0'; var
upload_via_smtp = '0'; var snapshot_schedule[0] = '00000240000000000000000000'; var
snapshot_schedule[1] = '00000240000000000000000000'; var snapshot_schedule[2] =
'00000240000000000000000000'; var snapshot_schedule[3] = '00000240000000000000000000'; var
snapshot_schedule[4] = '00000240000000000000000000'; var snapshot_schedule[5] =
'00000240000000000000000000'; var snapshot_schedule[6] = '00000240000000000000000000';
```

2.5.15 set.snapshot.settings

To set snapshot settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.snapshot.settings&<parameter>=<value>>

Example: Set snapshot settings

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.snapshot.settings&timing_snapshot_enable=1&snapshot_schedule_0=10000240000000000000000000&interval_value=2&interval_unit=2&save_into_storage=1&storage_filename_type=1&storage_base_filename=img&upload_via_ftp=1&upload_via_smtp=1

2.6 Event Configuration

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
EVENT CONFIGURATION	get.event.configuration	Get: Events (Motion detection, Audio Alarm, External Input, Network Lost, IP Address Conflicted), alarm actions.
	update.event.configuration	Modify: Events (Motion detection, Audio Alarm, External Input, Network Lost, IP Address Conflicted), alarm actions.
	add.event.configuration	Add event rule.
	del.event.configuration	Delete event rule.
	get.event.notify	Get event HTTP Notification setting.
	set.event.notify	Set event HTTP Notification setting.

2.6.1 get.event.configuration

To get all event rule configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.configuration>

<id>:

- 0: motion http server
- 1: network lost http server
- 2: audio alarm in http server
- 3: external input alarm http server
- 4: tamper alarm http server
- 5: PIR alarm http server
- 6: IP conflicted alarm http server
- 7: extra external input alarm http server
- 8: motion http server(Secondary Stream)
- 9: motion http server(Tertiary Stream)
- 10: motion http server(Fourth Stream)
- 11: motion http server(Fifth Stream)
- 12: record failed http server
- 13: sd full http server
- 14: sd uninit http server
- 15: sd error http server
- 16: no sd http server
- 17: third external input alarm http server
- 18: fourth external input alarm http server

Parameter	Values	Description
event_rule_<id>	An unsigned integer	The rule index id. (fixed value 0)
event_rule_name	String, max 20	The alias of an event rule. (fixed value 'msevent')
event_rule_enabled	Boolean	Enable the event rule (fixed value 1) 0: No 1: Yes
event_rule_periodic (not implemented)	Boolean	Event rule type 0: Always 1: Schedule
event_rule_weekdays (not implemented)	String, max 7	Format : xxxxxx 1000000 : Sunday is set 1000001 : Sunday and Saturday are set.
event_rule_starttime (not implemented)	An unsigned integer 0~3600x24	When periodic is 1, the start time.
event_rule_duration (not implemented)	An unsigned integer 0~3600x24	When periodic is 1, the end time.
event_rule_triggerbymotion_enable	Boolean	Enable Motion Detection . 0: No 1: Yes
event_rule_motion_activecell	Boolean	Onvif motion activeCells settings. 0: Normal 1: Compatible
event_rule_triggerbymotion_window_<id>	An unsigned integer	Motion detection windows ID. (fixed value 0)
event_rule_triggerbyboot_enable (not implemented)	Boolean	Enable trigger when device boots. 0: No 1: Yes
event_rule_triggerbyschedule_enable (not implemented)	Boolean	Enable trigger by schedule. 0: No 1: Yes
event_rule_triggerbyaudioin_enable	Boolean	Enable Audio Alarm . 0: No 1: Yes
event_rule_triggerbynetlost_enable	Boolean	Enable Network Lost Alarm . (Other

		Alarm) 0: No 1: Yes
event_rule_triggerbyipconflict_enable	Boolean	Enable IP Conflict Alarm . (Other Alarm) 0: No 1: Yes
event_rule_actionupload_enabled_<id>	Boolean	Enable the alarm action " Upload Via FTP ". 0: No 1: Yes
event_rule_actionupload_type	0	Fixed value 0. (Upload via FTP)
event_rule_actionupload_ftp_<id>	An unsigned integer	FTP server id. (fixed value 0)
event_rule_actionupload_file_type_<id>	0~2	File format. 0: Record 1: Snapshot 2: All
event_rule_actionupload_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
event_rule_actionupload_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
event_rule_actionrecord_enabled_<id>	Boolean	Enable the alarm action " Save Into Storage ". 0: No 1: Yes
event_rule_actionrecord_file_type_<id>	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
event_rule_actionnas_enabled_<id>(deprecated)	Boolean	Enable record to NAS. 0: No 1: Yes
event_rule_actionnas_file_type_<id>(deprecated)	An unsigned integer	0: For avi 1: For jpg 2: For avi & jpg
event_rule_actionsip_enabled_<id>	Boolean	Enable the alarm action " Alarm to SIP Phone ". 0: No 1: Yes
event_rule_actionaudio_enabled_<id>	Boolean	Enable the alarm action " Play Audio ". 0: No 1: Yes
event_rule_actiongpout_enabled_<id>	Boolean	Enable the alarm action " External Output ". 0: No 1: Yes
event_rule_actiongpout_ext_enabled_<id>	Boolean	Enable second external output action. 0: No 1: Yes (For the camera which support 2 alarm output, like speed dome)
event_rule_actiongpout_<id>	An unsigned integer	GPOUT id. (fixed value 1)
event_rule_actionemail_enabled_<id>	Boolean	Enable the alarm action " Upload Via SMTP ". 0: No 1: Yes
event_rule_actionemail_smtp_<id>	An unsigned integer	SMTP server id. (fixed value 0)

	integer	
event_rule_actionemail_file_type_<id>	An unsigned integer	File format. (fixed value 1) 0: Record 1: Snapshot 2: All
event_rule_actionhttp_enabled_<id>	Boolean	Enable the alarm action “ HTTP Notification ”. 0: No 1: Yes
		<i>Refer to Figure 2-6-1-1 for the above.</i>
event_rule_actionemail_smtp_email	String, max 80	Target email address. <i>Refer to Figure 2-6-1-2</i>
event_rule_actionemail_smtp_subject	String, max 80	Email subject. (fixed value ‘Notify’)
event_rule_actionemail_smtp_information	String, max 80	Email message. (fixed value ‘mail.’)
event_rule_actionemail_smtp_upload	Boolean	Enable upload file.(fixed value 1) 0: No 1: Yes
event_rule_actionhttp_http_<id>	An unsigned integer	HTTP server id. (fixed value 0)
event_rule_actionhttp_http_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
event_rule_actionhttp_http_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
event_rule_actionhttp_http_parameter_<id> (this is obsolescent,use event_rule_actionhttp_http_url event_rule_actionhttp_http_user event_rule_actionhttp_http_password instead)	String	HTTP parameters. Format: URL;user name;password
event_rule_actionhttp_http_url_<id>	String	HTTP Notification URL
event_rule_actionhttp_http_user_<id>	String	HTTP User Name
event_rule_actionhttp_http_password_<id>	String	HTTP Password
event_rule_actionhttp_http_notify_interval_<id>	An unsigned integer 0~900	HTTP notify interval
event_rule_actionhttp_http_message (not implemented)	String, max 80	HTTP message.
event_rule_actionemail_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
event_rule_actionemail_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
event_rule_actiontcp_enabled (not implemented)	Boolean	Enable TCP action.
event_rule_actiontcp_tcp_<id> (not implemented)	An unsigned integer	TCP server id.
event_rule_actiontcp_tcp_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
event_rule_actiontcp_tcp_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
event_rule_actiontcp_tcp_message (not implemented)	String, max 80	TCP message.
event_rule_triggerbytamper_enable (not implemented)	Boolean	Enable tamper alarm. 0: No 1: Yes
event_rule_triggerbygpin_enable	Boolean	Enable External Input .

		0: No 1: Yes
event_rule_triggerbygpin_idlestate	Boolean	Normal status for external input. 0: Low level 1: High level
event_rule_triggerbygpin_curstate	Boolean	Current status for external input. 0: Low level 1: High level
event_rule_triggerbygpin_<id>	An unsigned integer	GPIN id.
event_rule_triggerbygpinext_enable	Boolean	Enable second external input. 0: No 1: Yes
event_rule_triggerbygpinext_idlestate	Boolean	Normal state for second external input. 0: Low level 1: High level (For the camera which support 2 alarm input, like speed dome)
event_rule_triggerbygpinthird_enable	Boolean	Enable third external input. 0: No 1: Yes
event_rule_triggerbygpinthird_idlestate	Boolean	Normal state for third external input. 0: Low level 1: High level (For the camera which support 4 alarm input)
event_rule_triggerbygpinfourth_enable	Boolean	Enable fourth external input. 0: No 1: Yes
event_rule_triggerbygpinfourth_idlestate	Boolean	Normal state for fourth external input. 0: Low level 1: High level (For the camera which support 4 alarm input)
		<i>Refer to Figure 2-6-1-3 for the above.</i>
event_rule_settingrecord_seconds_<id>	An unsigned integer	Record Video Seconds. 5s,10s,15s,20s,25s,30s
event_rule_settingprerecord_seconds_<id> (deprecated)	An unsigned integer	Pre-record 0~10s
event_rule_settingsnapshot_<id>	An unsigned integer	Snapshot 1~5
event_rule_settingsnapshot_interval_unit_<id>	An unsigned integer	snapshot interval unit 0: millisecond 1: second
event_rule_settingsnapshot_interval_<id>	An unsigned integer	snapshot interval millisecond: 500~60000 second: 1~60
event_rule_settingtrigger_duration_<id>	An unsigned integer	External Output Action Time Customize(1~999)s: 1~999 Constant: 9999s
event_rule_settingaudio_interval_<id>	An unsigned integer	audio interval 0(Auto), 10s, 30s, 60s, 300s, 600s
event_rule_actionwhitelight_enabled_<id>	Boolean	Enable the alarm action " White LED". (For PTZ Bullet) 0 : No 1 : Yes
event_rule_settingwhiteled_flashmode_<id>	An unsigned integer	flash mode: 0: Twinkle 1: Always
event_rule_settingwhiteled flashtime_<id>	An unsigned integer	LED flash time(Twinkle flash mode)

	integer	1~10s
event_rule_settingwhiteled_alwaystime_<id>	An unsigned integer	LED flash time(Always flash mode) 1~60s
event_rule_settingwhiteled_effectivemode_<id>	An unsigned integer	White LED effective mode 0: Always 1: Light Environment 2: Customize
event_rule_settingwhiteled_effectivevalue_<id>	An unsigned integer	Effective Light Intensity 0~100s
event_rule_settingwhiteled_starthour_<id>	An unsigned integer	start hour 0~23
event_rule_settingwhiteled_startminute_<id>	An unsigned integer	start minute 0~59
event_rule_settingwhiteled_stophour_<id>	An unsigned integer	stop hour 0~23
event_rule_settingwhiteled_stopminute_<id>	An unsigned integer	stop minute 0~59
		<i>Refer to Figure 2-6-1-4 for the above.</i>
event_rule_actionpreset_enabled_<id>	An unsigned integer	Enable Call Preset 0 : No 1 : Yes
event_rule_actionpreset_id_<id>	An unsigned integer	Call Preset id 0~255
event_rule_actionpatrol_enabled_<id>	An unsigned integer	Enable Call Patrol 0 : No 1 : Yes
event_rule_actionpatrol_id_<id>	An unsigned integer	Call Patrol id 0~8
event_rule_actionpattern_enabled_<id>	An unsigned integer	Enable Call Pattern 0 : No 1 : Yes
event_rule_actionpattern_id_<id>	An unsigned integer	Call Pattern id 0~4

[Motion Detection](#)
 [Audio Alarm](#)
 [External Input](#)
 [Other Alarm](#)
 [External Output](#)

Alarm Action

Save Into Storage:	<input type="checkbox"/> File Format: Record v <small>(Please mount storage device.)</small>
Upload Via FTP:	<input type="checkbox"/> File Format: Record v
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho v
External Output:	<input type="checkbox"/> <small>(Please configure the External Output Action Time.)</small>
Play Audio:	<input type="checkbox"/> <small>(Please configure the Audio Action Settings and Audio Interval.)</small>
Alarm to SIP Phone:	<input checked="" type="checkbox"/> <small>(Please open the SIP.)</small>
HTTP Notification:	<input type="checkbox"/>
White LED:	<input type="checkbox"/>
PTZ Motion:	<input type="checkbox"/>

Figure 2-6-1-1

User Name:	<input type="text" value="hdipnc"/>
Sender Email Address:	<input type="text" value="hdipnc@sina.com"/>
Password:	<input type="password" value="*****"/>
SMTP Server:	<input type="text" value="smtp.sina.com"/>
SMTP Port:	<input type="text" value="25"/>
Recipient Email Address1:	<input type="text" value="user@domain.com"/>
Recipient Email Address2:	<input type="text"/>
Encryption:	<input type="radio"/> SSL <input type="radio"/> TLS

Figure 2-6-1-2

Enable External Input:	<input checked="" type="checkbox"/>
Normal Status:	<input checked="" type="radio"/> Low <input type="radio"/> High
Current Status:	Low

Figure 2-6-1-3

Alarm Setting	
Record Video Sections:	<input type="text" value="5"/> seconds
Snapshot:	<input type="text" value="3"/>
Snapshot Interval:	<input type="text" value="1"/> second
External Output Action Time:	<input type="text" value="30"/> seconds
Audio Action Settings:	<input type="button" value="Edit"/>
Play Audio Interval:	<input type="text" value="Auto"/>
White LED Flash Mode:	<input type="text" value="Twinkle"/>
White LED Flash Time:	<input type="text" value="3"/> <input type="button" value="Reset"/>
White LED Effective Mode:	<input type="text" value="Always"/>
Proportional Zoom Times:	<input type="text" value="2X"/>
PTZ Motion Recovery Time:	<input type="text" value="3"/> seconds (Recovery time is not less than flash time.)

Figure 2-6-1-4

Example: Get all event rules

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.event.configuration>

Return:

```
event_rule_id[0] = '0'; event_rule_name[0] = 'msevent'; event_rule_enabled[0] = '1'; event_rule_periodic[0] =
'0'; event_rule_triggerbymotion_enable[0] = '0'; event_rule_motion_activecell[0] =
'0'; event_rule_triggerbyboot_enable[0] = '0'; event_rule_triggerbyschedule_enable[0] = '1';
event_rule_triggerbyaudioin_enable[0] = '0'; event_rule_triggerbygpin_enable[0] = '0';
event_rule_triggerbygpin_idlestate[0] = '0'; event_rule_triggerbygpin_curstate[0] = '0';
event_rule_triggerbynetlost_enable[0] = '0'; event_rule_triggerbytamper_enable[0] = '0';
```

```
event_rule_triggerbyipconflict_enable[0] = '0'; event_rule_triggerbygpinext_enable[0] = '0';
event_rule_triggerbygpinext_idlestate[0] = '0'; event_rule_triggerbygpinext_curstate[0] = '0';
event_rule_actionupload_enabled[0] = '0'; event_rule_actionemail_enabled[0] = '0';
event_rule_actionhttp_enabled[0] = '0'; event_rule_actionsip_enabled[0] = '0';
..... (Result is too long, you can configure to see the hided words in the settings.)
```

2.6.2 update.event.configuration

Modify Event rule configuration.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=update.event.configuration&<parameter>=<value>
```

Example: Modify schedule recording event rule with GPOUT

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.event.configuration&event_rule_enabled=1
&event_rule_triggerbymotion_enable=0&event_rule_actionupload_enabled_0=0&event_rule_actionupload_t
ype=0&event_rule_actionupload_ftp_id=0&event_rule_actionupload_file_type_0=0&event_rule_actionupload
_post_alarm=10&event_rule_actionupload_interval=1000&event_rule_actionemail_enabled_0=0&event_rule
_actionemail_file_type_0=0&event_rule_actionemail_post_alarm=10&event_rule_actionemail_smtp_email=&
event_rule_actionemail_smtp_subject=&event_rule_actionemail_smtp_information=&event_rule_actionemail
_smtp_upload=0&event_rule_actionrecord_enabled_0=1&event_rule_triggerbygpin_enable=0&event_rule_tr
iggerbygpin_id=1&event_rule_actiongpout_enabled_3=1&event_rule_actiongpout_id=1&event_rule_settingr
ecord_seconds_1=10&event_rule_settingprerecord_seconds_1=3&event_rule_settingtrigger_duration_1=60
&event_rule_settingaudio_interval_1=0
```

2.6.3 add.event.configuration

Add event rule.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=add.event.configuration&<parameter>=<value>
```

Note : event_rule_id will be created by system automatticly.

Example: Add schedule recording event rule

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.configuration&event_rule_id=&event_rul
e_name=tset&event_rule_enabled=1&event_rule_periodic=0&event_rule_weekdays=0000000&event_rule_s
tarttime=0&event_rule_duration=0&event_rule_triggerbymotion_enable=0&event_rule_triggerbymotion_wind
ow_id=0&event_rule_triggerbyboot_enable=0&event_rule_triggerbyschedule_enable=1&event_rule_actionu
pload_enabled=0&event_rule_actionupload_type=0&event_rule_actionupload_ftp_id=0&event_rule_actionu
pload_file_type_0=0&event_rule_actionupload_post_alarm=10&event_rule_actionemail_enabled=0&event_r
ule_actionemail_smtp_id=0&event_rule_actionemail_file_type_0=0&event_rule_actionemail_post_alarm=10
&event_rule_actionemail_smtp_email=&event_rule_actionemail_smtp_subject=&event_rule_actionemail_sm
tp_information=&event_rule_actionemail_smtp_upload=0&event_rule_actionhttp_enabled=0&event_rule_act
ionhttp_http_id=0&event_rule_actionhttp_http_post_alarm=10&event_rule_actionhttp_http_parameter_0=htt
p://192.168.9.154/admin;ms1234;123&event_rule_actionhttp_http_message=&event_rule_actiontcp_enable
d=0&event_rule_actiontcp_tcp_id=0&event_rule_actiontcp_tcp_post_alarm=10&event_rule_actiontcp_tcp_m
essage=&event_rule_actionrecord_enabled_0=1&event_rule_triggerbygpin_enable=0&event_rule_triggerby
gpin_id=1&event_rule_actiongpout_enabled_0=0&event_rule_actiongpout_id=0
```

2.6.4 del.event.configuration

Delete event rule by ID.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=del.event.configuration>

Parameter	Values	Description
event_rule_id	integer	Delete event rule ID

Example: Delete all event server

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.configuration>

2.6.5 get.event.notify

Get event http notification setting.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.notify>

Parameter	Values	Description
event_http_notify_enable_<index>	integer	http notification enable. index 0~26
event_notify_enable_<index>_<id>	integer	One notification URL enable. id 0~2 (means support 3 URL for each event)
event_notify_interval_<index>_<id>	integer	Notification interval
event_notify_url_<index>_<id>	String	Notification url
event_notify_user_<index>_<id>	String	Notification user name
event_notify_password_<index>_<id>	String	Notification password
event_notify_method_<index>_<id>	integer	Notification method 0: Get 1: Post
event_notify_snapshot_<index>_<id>	integer	Notification post snapshot 0: No 1: Yes

Event index

index	Description
0	ALARM_EVENT_MOTION
1	ALARM_EVENT_NETWORK_LOST
2	ALARM_EVENT_AUDIO_IN
3	ALARM_EVENT_DINPUT
4	ALARM_EVENT_TAMPER
5	ALARM_EVENT_PIR
6	ALARM_EVENT_IP_CONFLICT
7	ALARM_EVENT_DINPUT_EXTRA
8	ALARM_EVENT_IR_RECT
9	ALARM_EVENT_VCA_INTRUSION_ENTER
10	ALARM_EVENT_VCA_INTRUSION_EXIT
11	ALARM_EVENT_VCA_LOITERING
12	ALARM_EVENT_VCA_ADVANCED_MOTION
13	ALARM_EVENT_VCA_LINECROSSING
14	ALARM_EVENT_VCA_COUNTER
15	ALARM_EVENT_VCA_HUMAN
16	ALARM_EVENT_VCA_CTD
17	ALARM_EVENT_VCA_FACE
18	ALARM_EVENT_RADAR
19	ALARM_EVENT_FACE
20	ALARM_EVENT_VCA_LINECROSSING2
21	ALARM_EVENT_VCA_LINECROSSING3
22	ALARM_EVENT_VCA_LINECROSSING4

23	ALARM_EVENT_OBJECT_LEFT_REMOVE
24	ALARM_EVENT_LPR_BLACK
25	ALARM_EVENT_LPR_WHITE
26	ALARM_EVENT_LPR_VISITOR
27	ALARM_EVENT_ANR
28	ALARM_EVENT_MOTION_SUB
29	ALARM_EVENT_MOTION_THIRD
30	ALARM_EVENT_MOTION_FOURTH
31	ALARM_EVENT_MOTION_FIFTH
32	ALARM_EVENT_RECORD_FAILED
33	ALARM_EVENT_SD_FULL
34	ALARM_EVENT_SD_UNINIT
35	ALARM_EVENT_SD_ERROR
36	ALARM_EVENT_NO_SD
37	ALARM_EVENT_DINPUT_THIRD
38	ALARM_EVENT_DINPUT_FOURTH

HTTP Notification:	<input checked="" type="checkbox"/>
HTTP Notification URL:	URL 1
Enable:	<input checked="" type="checkbox"/>
Trigger Interval:	10 (0-900) s
URL:	http://192.168.5.191/cgi-bin/operator/xxx
User Name:	admin
Password:	••••••

Example:

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.event.notify&format=inf>

Return:

```
[EVENT_NOTIFICATION]
event_http_notify_enable_0=0
event_notify_enable_0_0=1
event_notify_interval_0_0=123
event_notify_url_0_0=http://192.168.3.114
event_notify_user_0_0=csl
event_notify_password_0_0=1113333
event_notify_enable_0_2=1
event_notify_interval_0_2=11
event_notify_url_0_2=http://192.168.2.114
event_notify_user_0_2=adm
event_notify_password_0_2=123123
event_http_notify_enable_2=1
event_notify_enable_2_1=1
event_notify_interval_2_1=111
event_notify_url_2_1=33333
event_notify_user_2_1=adsfasdf
event_notify_password_2_1=123123123
```

2.6.6 set.event.notify

Set event http notification setting.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.event.notify&<parameter>=<value>>

Example:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.event.notify&event_http_notify_enable_0=0&event_notify_enable_0_0=1&event_notify_interval_0_0=123&event_notify_url_0_0=http://192.168.3.212&event_notify_user_0_0=csl&event_notify_password_0_0=1113333

_notify_user_0_0=csl&event_notify_password_0_0=1113333&event_notify_enable_0_1=1&event_notify_interval_0_1=111111&event_notify_url_0_1=http://192.168.2.113&event_notify_user_0_1=admin&event_notify_password_0_1=123123

2.7 Event Motion Detection

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
EVENT MOTION DETECTION	get.event.motion.detection	Get: Motion detection settings, like region, schedule and alarm actions(PTZ motion).
	update.event.motion.detection	Modify: Motion detection settings, like region, schedule and alarm actions(PTZ motion).
	add.event.motion.detection	Add motion detection.
	del.event.motion.detection	Delete motion detection.
	get.event.motions	Add multiple motion detection(Area Crop)
	set.event.motions	Add multiple motion detection(Area Crop)

2.7.1 get.event.motion.detection

To get motion detection configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.motion.detection>

Parameter	Values	Description
motion_window_name (not implemented)	String, max 20	Motion detection window nickname
motion_window_color (not implemented)	An unsigned integer 0~2	Motion detection window display color 0: Red 1: Green 2: Blue
motion_window_rectangle_x	An unsigned integer	Top left X coordinates
motion_window_rectangle_y	An unsigned integer	Top left Y coordinates
motion_window_rectangle_width	An unsigned integer	Motion detection window width
motion_window_rectangle_height	An unsigned integer	Motion detection window height
motion_window_rectangle		13X23
motion_window_trigger_sensitivity	An unsigned integer 1~10	Motion sensitivity.
motion_window_id	An unsigned integer 0~12	Motion detection window ID
motion_trigger_schedule_<ch>	String	Motion detection schedule such as: motion_trigger_schedule_0:

		<p>1011010001100130014002400</p> <p>1:enable 0:disable</p> <p>011010001100130014002400:</p> <p>start time:01:10 stop time:10:00</p> <p>start time:11:00 stop time:13:00</p> <p>start time:14:00 stop time:24:00</p>
ptz_motion_enabled	Boolean	<p>Enable the alarm action "PTZ Motion".</p> <p>0: No</p> <p>1: YES</p> <p>(Ptz Motion and Auto Tracking are mutually exclusive.)</p>
ptz_motion_zoom_time	An unsigned integer 2~12	<p>Proportional Zoom Times</p> <p>2X~12X</p>
ptz_motion_recovery_time	An unsigned integer	<p>PTZ Motion Recovery Time</p> <p>3~10S,60S,120S,300S</p> <p>(Recovery time is not less than flash time)</p>

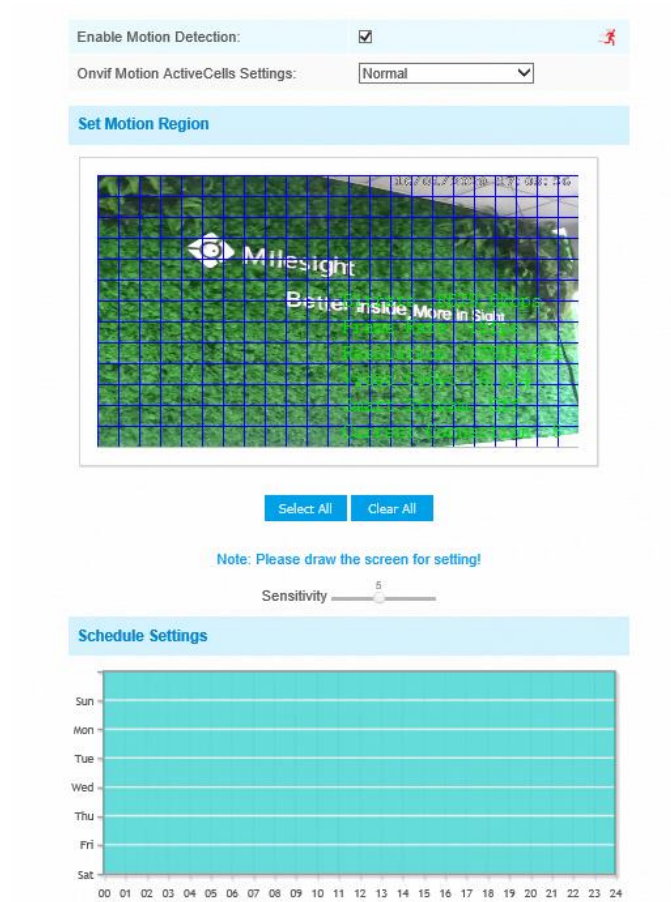


Figure 2-7-1-1

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=add.event.motion.detection&<parameter>=<value>>

Example: Add motion detection window by ID

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.motion.detection&motion_window_trigger_sensitivity=5&motion_window_rectangle_x=0&motion_window_rectangle_y=0&motion_window_rectangle_width=1280&motion_window_rectangle_height=720&motion_window_id=0&motion_trigger_schedule_0=1000012001400200021002400&motion_trigger_schedule_1=1000024000000240000002400&motion_trigger_schedule_2=1000024000000240000002400&motion_trigger_schedule_3=1000024000000240000002400&motion_trigger_schedule_4=1000024000000240000002400&motion_trigger_schedule_5=1000024000000240000002400&motion_trigger_schedule_6=1000024000000240000002400

2.7.5 del.event.motion.detection

Delete motion detection configuration by ID.

Usage:

http://<IP>/cgi-bin/operator/operator.cgi?action=del.event.motion.detection&motion_window_id=<value>

Parameter	Values	Description
motion_window_id	An unsigned integer 0~2	Delete motion detection windows ID

Example: Delete motion detection window by ID

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.motion.detection&motion_window_id=0

2.7.6 get.event.motions (AreaCrop)

To get all motion detection configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.motions>

Parameter	Values	Description
media_profile_resolution_width_<ch>	An unsigned integer	Video Frame Size <ch> 0-4 means Primary Stream-Fifth Stream
media_profile_resolution_height_<ch>	An unsigned integer	
motion_enable_<ch>	String, max 20	Motion detection enable
motion_window_trigger_sensitivity_<ch>	An unsigned integer	Sensitivity 1~10
motion_window_rectangle_x_<ch>	An unsigned integer	Top left X coordinates
motion_window_rectangle_y_<ch>	An unsigned integer	Top left Y coordinates
motion_window_rectangle_width_<ch>	An unsigned integer	Motion detection window width
motion_window_rectangle_height_<ch>	An unsigned integer	Motion detection window height
motion_window_rectangle_<ch>		13X23
motion_window_trigger_sensitivity_<ch>	An unsigned integer 1~10	Motion sensitivity.
main_motion_trigger_schedule_<day>	String	Primary Stream Motion detection schedule such as:

2.8 Event Server

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
EVENT SERVER	get.event.server	Get FTP, SMTP(Email) settings.
	update.event.ftp.server	Modify FTP settings.
	add.event.ftp.server	Add FTP server for event rule.
	del.event.ftp.server	Delete FTP server.
	update.event.smtp.server	Modify SMTP(Email) settings.
	add.event.smtp.server	Add SMTP server for event rule.
	del.event.smtp.server	Delete SMTP server.
	check.smtp.email	Test Email.

2.8.1 get.event.server

Get all server configuration.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.server
```

Parameter	Values	Description
server_ftp_name	String, max 32	Nickname for FTP server
server_ftp_address	IP address	FTP server address
server_ftp_port	Network port	FTP port
server_ftp_username	String, max 32	FTP username
server_ftp_password	String, max 32	FTP password
server_ftp_id	An unsigned integer	FTP server ID (fixed value 0)
server_ftp_pathType	An unsigned integer	Storage Path type. 0: Root Directory 1: Parent Directory 2: Child Directory 3: Customize
server_ftp_parentDirType	An unsigned integer	<i>Storage Path type: Parent Directory</i> Type of parent directory. 0: IP Address 1: Device Name 2: Date 3: Customize
server_ftp_parentDir	String, max 30	Customized name of parent directory.
server_ftp_childDirType	An unsigned integer	<i>Storage Path type: Child Directory</i> Type of child directory. 0: IP Address 1: Device Name 2: Date 3: Customize
server_ftp_childDir	String, max 30	Customized name of child directory.
server_ftp_path	String, max 50	<i>Storage Path type: Customize</i> Multilevel Folder Name
server_ftp_AlarmDirType	An unsigned integer	Alarm Action File Name 0: Default(YYYY-MM-DD) 1: Customize
server_ftp_videoDirType		<i>Alarm Action File Name: Customize</i>

		Video File Name. 0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY 3: Add prefix
server_ftp_videoPrefix	String, max 30	Video File Name prefix
server_ftp_video_name	String, max 31	Video File Name
server_ftp_imgDirType		<i>Alarm Action File Name: Customize</i> Image File Name. 0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY 3: Add prefix
server_ftp_imgPrefix	String, max 30	Image File Name prefix
server_ftp_img_name	String, max 31	Image File Name
server_ftp_snapshotDirType	An unsigned integer	Timing Snapshot File Name 0: Default(YYYY-MM-DD) 1: Overwrite with the base file name 2: MM-DD-YYYY 3: DD-MM-YYYY 4: Add prefix
server_ftp_snapshotName	String, max 30	<i>Timing Snapshot File Name: Overwrite</i> Base File Name
server_ftp_snapPrefix	String, max 30	<i>Timing Snapshot File Name: Add</i> prefix Prefix name.
server_ftp_snap_name	String, max 31	Timing Snapshot File Name
server_ftp_protocol	An unsigned integer	FTP over SSL/TLS(FTPS) 0: No 1: Yes
server_ftp_preRecordTime	An unsigned integer	FTP Pre-record time. 0~10 seconds
		<i>Refer to Figure 2-8-1-1 for the above.</i>
server_smtp_enable	Boolean	Enable smtp 0: No 1: Yes
server_smtp_name	String, max 32	Nickname for SMTP server (Email)
server_smtp_address	IP address	SMTP server address
server_smtp_port	An unsigned integer	SMTP port
server_smtp_username	String, max 32	Email username
server_smtp_password	String, max 32	Email password
server_smtp_ssl	Boolean	Enable login with SSL 0 : No 1 : Enable TLS 2 : Enable SSL
server_smtp_from_address	String, max 80	Email address
server_smtp_id	An unsigned integer	SMTP server ID (<i>fixed value 0</i>)
server_smtp_to_address[id]	String, max128	Recipient Email Addresss <i>[id]: 0~1 means recipient number</i>
server_smtp_img_type	An unsigned integer	Alarm snapshot filename type: 0 : YYYY-MM-DD 1 : MM-DD-YYYY 2 : DD-MM-YYYY 3 : Add prefix 4 : Customize
server_smtp_img_prefix	String, max 31	Alarm snapshot filename prefix
server_smtp_img_name	String, max 31	Customize Alarm snapshot filename
server_smtp_snap_type	An unsigned integer	Timing snapshot filename type: 0 : YYYY-MM-DD 1 : MM-DD-YYYY 2 : DD-MM-YYYY

		3 : Add prefix 4 : Customize
server_smtp_snap_prefix	String, max 31	Timing snapshot filename prefix
server_smtp_snap_name	String, max 31	Customize Timing snapshot filename
		Refer to Figure 2-8-1-2 for the above.

Basic Settings >> Network

TCP/IP HTTP RTSP UPnP DDNS Email **FTP** VLAN PPPoE SNMP 802.1x Bonjour

FTP Server Settings

Server Address:

Server Port:

User Name:

Password:

FTP over SSL/TLS(FTPS):

FTP Storage Settings

Storage Path:

Parent Directory:

Alarm Action File Name:

Timing Snapshot File Name:

Pre-record:

Figure 2-8-1-1

DNS **Email** FTP VLAN PPPoE SNMP 802.1x Bonjour

User Name:

Sender Email Address:

Password:

SMTP Server:

SMTP Port:

Recipient Email Address1:

Recipient Email Address2:

Encryption: SSL TLS

Figure 2-8-1-2

Example: Get all event server

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.event.server>

Return:

```
server_ftp_id[0] = '0'; server_ftp_name[0] = 'msftp0'; server_ftp_address[0] = '192.168.8.74';
server_ftp_path[0] = '123'; server_ftp_username[0] = 'admin'; server_ftp_password[0] = '11111'; var
server_ftp_snapshotDirType[0] = '3'; var server_ftp_protocol[0] = '1'; var server_ftp_preRecordTime[0] = '5';
var server_ftp_snapPrefix[0] = 'prefix';server_smtp_name[0] = 'mssmtp0'; server_smtp_address[0] =
'smtp.sina.com'; server_smtp_port[0] = '25'; server_smtp_username[0] = 'april'; server_smtp_password[0] =
'666666'; server_smtp_ssl[0] = '2'; server_smtp_from_address[0] = 'april@sina.com'; server_smtp_id[0] = '0';
server_http_name[0] = 'motionhttp'; server_http_url[0] =
'http://192.168.8.74:8601/Interface/Cameras/MotionDetection/Notify?Camera=141'; server_http_username[0]
= 'admin'; server_http_password[0] = '1111'; var server_http_interval[0] = '15';server_http_id[0] = '0'; var
system_deviceinformation_model = 'MS-C2962-FIPB';
```

2.8.2 update.event.ftp.server

Modify FTP settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=update.event.ftp.server<parameter>=<value>
```

Example: Update FTP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.event.ftp.server&server_ftp_id=1&server_ftp_name=FTP1&server_ftp_address=192.168.0.100&server_ftp_port=21&server_ftp_path=%path&server_ftp_username=test&server_ftp_password=test&server_ftp_pathtype=1&server_ftp_parentDirType=1&server_ftp_parentDir=%path&server_ftp_childDirType=1&server_ftp_childDir=%path&server_ftp_alarmDirType=1&server_ftp_videoDirType=1&server_ftp_videoPrefix=prefix&server_ftp_imgDirType=1&server_ftp_imgPrefix=prefix&server_ftp_snapshotName=name&server_ftp_protocol=0&server_ftp_preRecordTime=0&server_ftp_snapshotPrefix=prefix&server_ftp_snapshotDirType=0
```

2.8.3 add.event.ftp.server

Add FTP server for event rule.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=add.event.ftp.server<parameter>=<value>
```

Note : The server_ftp_id will be created by system automatically.

Example: Add FTP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.ftp.server&server_ftp_id=1&server_ftp_name=FTP1&server_ftp_address=192.168.0.100&server_ftp_port=21&server_ftp_path=%path&server_ftp_username=test&server_ftp_password=test&server_ftp_pathtype=1&server_ftp_parentDirType=1&server_ftp_parentDir=%path&server_ftp_childDirType=1&server_ftp_childDir=%path&server_ftp_alarmDirType=1&server_ftp_videoDirType=1&server_ftp_videoPrefix=prefix&server_ftp_imgDirType=1&server_ftp_imgPrefix=prefix&server_ftp_snapshotName=name
```

2.8.4 del.event.ftp.server

Delete FTP server by ID.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=del.event.ftp.server&server_ftp_id=<value>
```

Parameter	Values	Description
server_ftp_id	An unsigned integer	FTP server ID

Example: Delete FTP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.ftp.server&server_ftp_id=0
```

2.8.5 update.event.http.server (deprecated)

Update http server for event rule

Example: Update http server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.event.http.server&server_http_id=0&server_http_url=http%3A%2F%2F192.168.5.100%2Fnotify.cgi&server_http_username=test&server_http_password=test&server_http_interval=12
```

2.8.6 add.event.http.server (deprecated)

Add http server for event rule.

Note : The server_http_id will be created by system automatically.

Example: Add http server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.http.server&server_http_id=&server_http_url=http%3A%2F%2F192.168.5.100%2Fnotify.cgi&server_http_username=test&server_http_password=test
```

2.8.7 del.event.http.server (deprecated)

Delete http server by ID.

Parameter	Values	Description
server_http_id	integer	HTTP server ID

Example: Delete http server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.http.server&server_http_id=0
```

2.8.8 update.event.tcp.server (not implemented)

Update TCP server for event rule.

Example: Update TCP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.event.tcp.server&server_tcp_id=1&server_tcp_name=TCP1&server_tcp_address=192.168.0.100&server_tcp_port=12346
```

2.8.9 add.event.tcp.server (not implemented)

Add TCP server for event rule.

```
http://<serverIP>/cgi-bin/operator/operator.cgi?action=add.event.tcp.server[&<parameter>=<value>...]
```

Note : The server_tcp_id will be created by system automatically.

Example: Add TCP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.tcp.server&server_tcp_id=&server_tcp_name=TCP1&server_tcp_address=192.168.0.100&server_tcp_port=12345
```

2.8.10 del.event.tcp.server (not implemented)

Delete TCP server by ID.

Parameter	Values	Description
server_tcp_id	integer	TCP server ID

Example: Delete TCP server

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.tcp.server&server_tcp_id=1
```

2.8.11 update.event.smtp.server

Modify SMTP(Email) settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=update.event.smtp.server&<parameter>=<value>
```

Example: Modify SMTP server configuration

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.event.smtp.server&server_smtp_id=1&server_smtp_name=SMTP&server_smtp_from_address=test%40gmail.com&server_smtp_address=smtp.gmail.com&server_smtp_port=25&server_smtp_ssl=1&server_smtp_username=test&server_smtp_password=test

2.8.12 add.event.smtp.server

Add SMTP server for event rule.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=add.event.smtp.server&<parameter>=<value>>

Note : The server_smtp_id will be created by system automaticly.

Example: Add SMTP server

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.event.smtp.server&server_smtp_id=&server_smtp_name=SMTP&server_smtp_from_address=test@gmail.com&server_smtp_address=smtp.gmail.com&server_smtp_port=25&server_smtp_ssl=1&server_smtp_username=test&server_smtp_password=test

2.8.13 del.event.smtp.server

Delete SMTP server by ID.

Usage:

[http://<IP>/cgi-bin/operator/operator.cgi?action=del.event.smtp.server\[&server_smtp_id=<value>\]](http://<IP>/cgi-bin/operator/operator.cgi?action=del.event.smtp.server[&server_smtp_id=<value>)

Parameter	Values	Description
server_smtp_id	integer	SMTP ID, same as get

Example: Delete SMTP server

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.event.smtp.server&server_smtp_id=0

2.8.14 check.smtp.email

Test Email setting.

Example:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=check.smtp.email

Return: (null)

Return: requested testing failed

email: FATAL: Smt error

2.9 Event Server I/O

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
EVENT SERVER I/O	get.event.io	Get external output setting and alarm triggered status.
	set.event.io	Set I/O configuration for event rule.
	active.event.io	Trigger external output.

trigger.event.io

Set external output active status.

2.9.1 get.event.io

Get I/O configuration for event rule.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.event.io>

Parameter	Values	Description
system_misc_powerled (not implemented)	Boolean	Enable power LED 0 : No 1 : Yes
io_relayoutput_io_type_<ID>	Boolean	I/O Type (fixed value 0) 0 : GPOUT 1 : GPIN
io_relayoutput_token_<ID>	An unsigned integer	Unique identifier referencing the physical entity of same type. (fixed value 0)
io_relayoutput_properties_mode_<ID> (not implemented)	Boolean	0 : Monostable 1 : Bistable Bistable – After setting the state, the relay remains in this state. Monostable – After setting the state, the relay returns to its idle state after the specified time.
io_relayoutput_properties_delaytime_<ID> (not implemented)	An unsigned integer 1~200	DelayTime Time after which the relay returns to its idle state if it is in monostable mode. If the Mode field is set to bistable mode the value of the parameter can be ignored.
io_relayoutput_properties_idlestate_<ID>	Boolean	External Output--Normal Status 0: Open 1: Grounded <i>Refer to Figure 2-9-1</i>
io_relayoutput_logicalstate_<ID>	Boolean	Alarm triggered status 0: Active 1: Inactive When alarm triggered(Active), the current status will become different from the idlestate(Normal Status).
io_relayoutput_num	An unsigned integer	External Output Interface Number

Other Alarm External Output

External Output

Normal Status:	<input checked="" type="radio"/> Open <input type="radio"/> Grounded
Current Status:	Open

Test
Save

Figure 2-9-1

Example: get external output setting and alarm triggered status

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.event.io>

Return:

```
var io_relayoutput_num = '1'; var io_relayoutput_io_type[0] = '0'; var io_relayoutput_token[0] = '0'; var io_relayoutput_properties_idlestate[0] = '0'; var io_relayoutput_logicalstate[0] = '1'; var
```

```
io_relayoutput_io_type[1] = '0'; var io_relayoutput_token[1] = '1'; var io_relayoutput_properties_idlestate[1] = '1'; var io_relayoutput_logicalstate[1] = '1';
```

2.9.2 set.event.io

Set I/O configuration for event rule.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.event.io<parameter>=<value>
```

Example: set external output

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.event.io&system_misc_powerled=1&io_relayoutput_token_0=1&io_relayoutput_properties_mode_0=0&io_relayoutput_properties_idlestate_0=1&io_relayoutput_properties_delaytime_0=5&io_relayoutput_logicalstate_0=1&io_relayoutput_io_type_0=1&io_relayoutput_token_1=1&io_relayoutput_properties_mode_1=0&io_relayoutput_properties_idlestate_1=1&io_relayoutput_properties_delaytime_1=5&io_relayoutput_logicalstate_1=1&io_relayoutput_io_type_1=0
```

2.9.3 active.event.io

Trigger external output.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=active.event.io<parameter>=<value>
```

Parameter	Values	Description
io_relayoutput_token	An unsigned integer(0~1)	Token: 0~1 GPOUT number, max numbers depends on model type.
io_command	Boolean	Active: 0~1 Status : 0: Inactive (equals to normal status) 1: Active (the reverse of normal status)

Example: Tigger GPOUT #0 to active

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=active.event.io&io_relayoutput_token=0&io_command=1
```

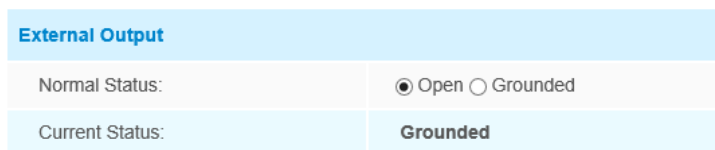


Figure 2-9-3

2.9.4 trigger.event.io

Set External Output Active Status.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=trigger.event.io<parameter>=<value>
```

Parameter	Values	Description
trigger_alarm_output_0	Boolean	Output 1 active status

		0: Inactive 1: Active
trigger_alarm_output_1	Boolean	Output 2 active status 0: Inactive 1: Active

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=trigger.event.io&trigger_alarm_output_0=0&trigger_alarm_output_1=0
```

2.10 Event PIR (not implemented)

2.11 YOICS (not implemented)

2.12 VCA Configuration

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
VCA CONFIGURATION	get.vca.configuration	Get VCA rule configuration(alarm actions and alarm settings).
	set.vca.configuration	Set VCA rule configuration(alarm actions and alarm settings).

2.12.1 get.vca.configuration

To get all VCA rule configuration.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.configuration
```

id:

0: Region Entrance 1: Region Exit
 2: Advanced Motion 3: Tamper
 4: Line #1 Crossing 5: Loitering
 6: Human Detection 7: People Counting
 8: Line #2 crossing 9: Line #3 Crossing
 10: Line #4 crossing 11: Object Left/Remove

Parameter	Values	Description
vca_rule_id	An unsigned integer	The rule index id. (fixed value 0)
vca_rule_name	String, max 20	The alias of an vca rule. (fixed value 'msvca')
vca_rule_enabled	Boolean	Enable the vca rule (fixed value 1) 0: No

		1: Yes
vca_rule_periodic (not implemented)	Boolean	vca rule type 0: Always 1: Schedule
vca_rule_weekdays (not implemented)	String, max 7	Format : xxxxxx 1000000 : Sunday is set 1000001 : Sunday and Saturday are set.
vca_rule_starttime (not implemented)	An unsigned integer 0~3600x24	When periodic is 1, the start time.
vca_rule_duration (not implemented)	An unsigned integer 0~3600x24	When periodic is 1, the end time.
vca_rule_triggerbyboot_enable (not implemented)	Boolean	Enable trigger when device boots. 0: No 1: Yes
vca_rule_triggerbyschedule_enable	Boolean	Enable trigger by schedule. 0: No 1: Yes
vca_rule_actionrecord_enabled_<id>	Boolean	Enable the alarm action " Save Into Storage ". 0: No 1: Yes
vca_rule_actionrecord_file_type_<id>	0~2	Storage File format 0: Record 1: Snapshot 2: All
vca_rule_actiongpout_enabled_<id>	Boolean	Enable the alarm action " External Output ". 0 : No 1 : Yes
vca_rule_actionsip_enabled_<id>	Boolean	Enable the alarm action " Alarm to SIP Phone ". 0: No 1: Yes
vca_rule_actionaudio_enabled_<id>	Boolean	Enable the alarm action " Play Audio ". 0: No 1: Yes
vca_rule_actionupload_enabled_<id>	Boolean	Enable the alarm action " Upload Via FTP ". 0 : No 1 : Yes
vca_rule_actionupload_file_type_<id>	0~2	FTP File Format 0: Record 1: Snapshot 2: All
vca_rule_actionemail_enabled_<id>	Boolean	Enable the alarm action " Upload Via SMTP ". 0: No 1: Yes
vca_rule_settingemail_interval_<id>	An unsigned integer	Email Triggered Interval: 0:auto 10:10s 20:20s 40:40s 60:60s 100:100s 300:5 minutes 900:15 minutes 1800:30 minutes

		3600:1 hour 28800:8 hours 43200:12 hours 86400:24 hours
vca_rule_actionhttp_enabled_<id>	Boolean	Enable the alarm action “ HTTP Notification ”. 0: No 1: Yes
		<i>Refer to Figure 2-12-1-1 for the above.</i>
vca_rule_actionupload_type	0	Fixed value 0. (Upload via FTP)
vca_rule_actionupload_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
vca_rule_actionupload_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
vca_rule_actionemail_file_type	An unsigned integer	Fixed value 1(JPG)
vca_rule_actionemail_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
vca_rule_actionemail_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
vca_rule_actionemail_smtp_email	String, max 80	Target email address. <i>Refer to Figure 2-12-1-3</i>
vca_rule_actionemail_smtp_subject	String, max 80	Email subject. (fixed value ‘Notify’)
vca_rule_actionemail_smtp_information	String, max 80	Email message. (fixed value ‘mail.’)
vca_rule_actionemail_smtp_upload	Boolean	Enable upload file.(fixed value 1) 0 : No 1 : Yes
vca_rule_actionhttp_http_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by ‘Schedule’.
vca_rule_actionhttp_http_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
vca_rule_actionhttp_http_parameter_<id> (this is obsolescent,use vca_rule_actionhttp_http_url vca_rule_actionhttp_http_user vca_rule_actionhttp_http_password instead)	String	HTTP parameters. Format: URL;user name;password
vca_rule_actionhttp_http_url_<id> (deprecated)	String	HTTP Notification URL
vca_rule_actionhttp_http_user_<id> (deprecated)	String	HTTP User Name
vca_rule_actionhttp_http_password_<id> (deprecated)	String	HTTP Password
vca_rule_actionhttp_http_notify_interval_<id> (deprecated)	An unsigned integer 0~900	HTTP notify interval
vca_rule_actionhttp_http_message (not implemented)	String, max 80	HTTP message.
vca_rule_actionnas_enabled_<id> (deprecated)	Boolean	Enable record to NAS 0: No 1: Yes
vca_rule_actionnas_file_type_<id> (deprecated)	0~2	0: For avi 1: For jpg 2: For avi & jpg
vca_rule_settingrecord_seconds_<id>	An unsigned integer	Record Video Seconds 5s, 10s, 15s, 20s, 25s, 30s
vca_rule_settingprerecord_seconds_<id>	An unsigned	Pre-record

(deprecated)	integer	0~10s
vca_rule_settingsnapshot_<id>	An unsigned integer	Snapshot 1~5
vca_rule_settingsnapshot_interval_unit_<id>	An unsigned integer	snapshot interval unit 0:millisecond 1:second
vca_rule_settingsnapshot_interval_<id>	An unsigned integer	snapshot interval millisecond: 500~60000 second: 1~60
vca_rule_settingtrigger_duration_<id>	An unsigned integer	External Output Action Time Customize(1~999)s: 1~999 Constant: 9999s
vca_rule_settingaudio_interval_<id>	An unsigned integer	audio interval 0: Auto, 10: 10s, 30: 30s, 60: 1 minute, 300: 5 minutes, 600: 10minutes
vca_rule_actionwhitelight_enabled_<id>	Boolean	Enable white LED action 0: No 1: Yes
vca_rule_settingwhiteled_flashmode_<id>	An unsigned integer	Flash mode: 0:Twinkle 1:Always
vca_rule_settingwhiteled_flashtime_<id>	An unsigned integer	LED flash time(Twinkle flash mode) 1~10s
vca_rule_settingwhiteled_alwaystime_<id>	An unsigned integer	LED flash time(Always flash mode) 1~60s
vca_rule_settingwhiteled_effectivemode_<id>	An unsigned integer	White LED effective mode 0:Always 1: Light Environment 2: Customize
vca_rule_settingwhiteled_effectivevalue_<id>	An unsigned integer	Effective Light Intensity 0~100s
vca_rule_settingwhiteled_starthour_<id>	An unsigned integer	start hour 0~23
vca_rule_settingwhiteled_startminute_<id>	An unsigned integer	start minute 0~59
vca_rule_settingwhiteled_stophour_<id>	An unsigned integer	stop hour 0~23
vca_rule_settingwhiteled_stopminute_<id>	An unsigned integer	stop minute 0~59
vca_rule_settingtrigger_latency_<id>	An unsigned integer	0: immediate 3~10:delay seconds
		<i>Refer to Figure 2-12-1-2 for the above.</i>

Alarm Action	
Save Into Storage:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/> (Please mount storage device.)
Upload Via FTP:	<input type="checkbox"/> File Format: Record <input type="button" value="v"/>
Upload Via SMTP:	<input type="checkbox"/> File Format: Snapsho <input type="button" value="v"/>
External Output:	<input type="checkbox"/> (Please configure the External Output Action Time.)
Play Audio:	<input type="checkbox"/> (Please configure the Audio Action Settings and Audio Interval.)
Alarm to SIP Phone:	<input type="checkbox"/> (Please open the SIP.)
HTTP Notification:	<input type="checkbox"/>
White LED:	<input type="checkbox"/>

Figure 2-12-1-1

Alarm Setting	
Record Video Sections:	5 seconds <input type="button" value="v"/>
Snapshot:	3 <input type="button" value="v"/>
Snapshot Interval:	1 <input type="text"/> second <input type="button" value="v"/>
External Output Action Time:	30 seconds <input type="button" value="v"/>
Audio Action Settings:	<input type="button" value="Edit"/>
Play Audio Interval:	Auto <input type="button" value="v"/>
White LED Flash Mode:	Twinkle <input type="button" value="v"/>
White LED Flash Time:	<input type="text" value="3"/> <input type="button" value="Reset"/>
White LED Effective Mode:	Always <input type="button" value="v"/>

Figure 2-12-1-2

Example: Get VCA alarm actions and alarm settings

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.configuration>

Return:

```
var vca_rule_id = '0'; var vca_rule_name = 'msvca'; var vca_rule_enabled = '1'; var vca_rule_periodic = '0'; var
vca_rule_weekdays = '1111111'; var vca_rule_starttime = '0'; var vca_rule_duration = '0'; var
vca_rule_triggerbyboot_enable = '0'; var vca_rule_triggerbyschedule_enable = '1'; var
vca_rule_actionupload_enabled[0] = '0'; var vca_rule_actionupload_enabled[1] = '0'; var
vca_rule_actionupload_enabled[2] = '0'; var vca_rule_actionupload_enabled[3] = '0'; var
vca_rule_actionupload_enabled[4] = '0'; var vca_rule_actionupload_enabled[5] = '0'; var
vca_rule_actionupload_enabled[6] = '0'; var vca_rule_actionupload_enabled[7] = '0'; var
vca_rule_actionupload_enabled[8] = '0'; var vca_rule_actionupload_enabled[9] = '0'; var
vca_rule_actionupload_enabled[10] = '0'; var vca_rule_actionupload_file_type[0] = '0'; var
vca_rule_actionupload_file_type[1] = '0'; var vca_rule_actionupload_file_type[2] = '0'; var
vca_rule_actionupload_file_type[3] = '0'; var vca_rule_actionupload_file_type[4] = '0'; var
vca_rule_actionupload_file_type[5] = '0'; var vca_rule_actionupload_file_type[6] = '0'; var
vca_rule_actionupload_file_type[7] = '0'; var vca_rule_actionupload_file_type[8] = '0'; var
```

..... (Result is too long, you can configure to see the hided words in the settings.)

2.12.2 set.vca.configuration

Set VCA alarm actions and alarm settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.configuration&<parameter>=<value>>

Example: set detection alarm action and alarm setting for region entrance

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.configuration&vca_rule_actionupload_enabled_0=1&vca_rule_actionupload_file_type_0=1&vca_rule_actionemail_enabled_0=1&vca_rule_actionhttp_enabled_0=0&vca_rule_actionrecord_enabled_0=1&vca_rule_actionrecord_file_type_0=2&vca_rule_settingrecord_seconds_0=10&vca_rule_settingprerecord_seconds_0=4&vca_rule_settingsnapshot_0=2&vca_rule_settingsnapshot_interval_unit_0=0&vca_rule_settingsnapshot_interval_0=600

2.13 VCA Detection

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
VCA DETECTION	get.vca.regionentrance	Get Region Entrance settings (region, schedule...).
	set.vca.regionentrance	Set Region Entrance settings (region, schedule...).
	get.vca.regionexit	Get Region Exit settings (region, schedule...).
	set.vca.regionexit	Set Region Exit settings (region, schedule...).
	get.vca.advancedmotion	Get Advanced Motion Detection settings (region, schedule...).
	set.vca.advancedmotion	Set Advanced Motion Detection settings (region, schedule...).
	get.vca.tamper	Get Tamper Detection settings (schedule...).
	set.vca.tamper	Set Tamper Detection settings (schedule...).
	get.vca.alllinecrossing	Get Line Crossing settings (line, schedule...).
	set.vca.alllinecrossing	Set Line Crossing settings (line, schedule...).
	get.vca.loitering	Get Loitering settings (region, schedule...).
	set.vca.loitering	Set Loitering settings (region, line, schedule...).
	get.vca.humandetection	Get Human Detection settings (schedule...).
	set.vca.humandetection	Set Human Detection settings (schedule...).
	get.vca.count	Get People Counting settings (line, schedule...).
	set.vca.count	Set People Counting settings (line, schedule...).
	set.vca.cleancount	Clear People Counting result.
	get.vca.settings	Get VCA settings (process fps, camera installation, object size limit...).
	set.vca.settings	Set VCA settings (process fps, camera installation, object size limit...).
	get.vca.alarmstatus	Get VCA alarm status.

		259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_entrance_trigger_schedule_[ch]	String	Region Entrance detection schedule such as: region_entrance_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 <i>[ch] 0~6 means Sun~Sat.</i>
scene	An unsigned integer	Effective Region Settings 0: Normal 1: Preset 1 2: Preset 2 3: Preset 3 4: Preset 4
region_entrance_window_rectangle_x_preset[pid]	An unsigned integer	Preset's Region Top left X coordinates <i>[pid]: preset number (1~4)</i>
region_entrance_window_rectangle_y_preset[pid]	An unsigned integer	Preset's Region Top left Y coordinates
region_entrance_window_rectangle_width_preset[pid]	An unsigned integer	Preset's Region detection window width
region_entrance_window_rectangle_height_preset[pid]	An unsigned integer	Preset's Region detection window height
region_entrance_window_rectangle_preset[pid]		Preset's Region
region_entrance_window_polygon_x_preset[pid]	String	X coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_entrance_window_polygon_y_preset[pid]	String	Y coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point


```
region_entrance_window_rectangle_height_0=1080
region_entrance_window_rectangle =
'00000000000000000111111000000000000000000111111000000000000000001111110000000000000000011
1111000000000000000000001111110000000000000000001111110000000000000000111111000000000000000
011111100000000000000000000011111100000000000000001111110000000000000000111111000000000000000
00001111110000000000000000000000111111'
```

..... (Result is too long, you can configure to see hidied words in the settings.)

2.13.2 set.vca.regionentrance

Set region entrance detection.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.regionentrance&<parameter>=<value>
```

Example: set region entrance's detection region

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.regionentrance&region_entrance_enable=1
&region_entrance_window_rectangle_x=600&region_entrance_window_rectangle_y=200&region_entrance_
window_rectangle_width=400&region_entrance_window_rectangle_height=400
```

Example: set region entrance's detection region(set preset region)

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.regionentrance&region_entrance_window_
rectangle_x_preset_3=1411&region_entrance_window_rectangle_y_preset_3=0&region_entrance_window_r
ectangle_width_preset_3=509&region_entrance_window_rectangle_height_preset_3=1080
```

2.13.3 get.vca.regionexit

To get region exit configuration.

Usage:

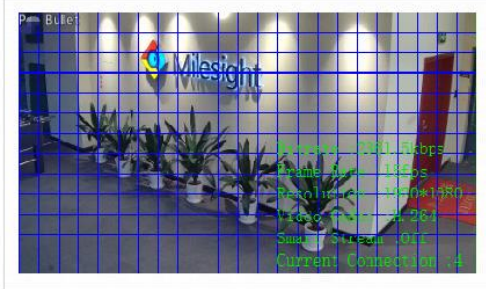
```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.regionexit
```

Parameter	Values	Description
region_exit_enable	Boolean	Enable to detect 0: No 1: Yes
intrusion_exit_sens	An unsigned integer 1~10	Region Exiting Sensitivity
intrusion_exit_detection_object	An unsigned integer -1~2	Detection Object -1: none 0: only Person 1: only Vehicle 2: Person and Vehicle
region_exit_window_id	An unsigned integer 0~12	detection window ID
region_exit_window_name (not implemented)	String, max 20	detection window nickname
region_exit_window_color (not implemented)	An unsigned integer 0~2	detection window display color 0: Red 1: Green 2: Blue
region_exit_window_rectangle_x	An unsigned integer	Top left X coordinates
region_exit_window_rectangle_y	An unsigned integer	Top left Y coordinates
region_exit_window_rectangle_width	An unsigned integer	detection window width
region_exit_window_rectangle_height	An unsigned integer	detection window height

	integer	
region_exit_window_rectangle	Boolean	13X23 quadrille window 0: unchecked 1: checked
region_exit_window_polygon_x	String	X coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_exit_window_polygon_y	String	Y coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_exit_trigger_schedule_[ch]	String	Region Exit detection schedule such as: region_exit_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 [ch] 0~6 means Sun~Sat.
scene	An unsigned integer	Effective Region Settings 0: Normal 1: Preset 1 2: Preset 2 3: Preset 3 4: Preset 4
region_exit_window_rectangle_x_preset[pid]	An unsigned integer	Preset's Region Top left X coordinates pid: preset number (1~4)
region_exit_window_rectangle_y_preset[pid]	An unsigned integer	Preset's Region Top left Y coordinates
region_exit_window_rectangle_width_preset[pid]	An unsigned integer	Preset's Region detection window width
region_exit_window_rectangle_height_preset[pid]	An unsigned integer	Preset's Region detection window height
region_exit_window_rectangle_preset[pid]		Preset's Region 13X23 quadrille window 0: unchecked 1: checked
region_exit_window_polygon_x_preset[pid]	String	X coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_exit_window_polygon_y_preset[pid]	String	Y coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point

Enable Advanced Motion Detection:
 Sensitivity:
 Effective Region Settings:
 Effective with Presets:

Set Advanced Motion Detection Region



Note: Please draw the screen for setting!

Schedule Settings

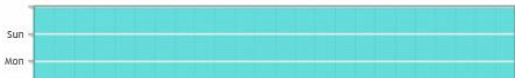


Figure 2-13-5

Example: Get advance motion detection configuration (region and schedule)

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.advancedmotion>

Return:

```
var rtsp_port = '554'; var media_profile_url = 'main'; var media_profile_resolution_width = '1920'; var
media_profile_resolution_height = '1080'; var imaging_settings_osd_test = '0'; var system_io = '1'; var
advanced_motion_enable = '0'; var advanced_motion_window_id[0] = '0'; var
advanced_motion_window_name[0] = 'msadvancedmotion0'; var advanced_motion_window_color[0] = '0';
var advanced_motion_window_rectangle_x[0] = '83'; var advanced_motion_window_rectangle_y[0] = '0'; var
advanced_motion_window_rectangle_width[0] = '664'; var advanced_motion_window_rectangle_height[0] =
'996'; var advanced_motion_window_rectangle =
'0111111110000000000000000111111110000000000000001111111100000000000000011111111000000000000
00011111111000000000000001111111100000000000000011111111000000000000000111111110000000000
00000111111110000000000000011111111000000000000000111111110000000000000001111111100000000
000000000000000000000000000000';
```

..... (Result is too long, you can configure to see hided words in the settings.)

2.13.6 set.vca.advancedmotion

Set advanced motion detection.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.advancedmotion&<parameter>=<value>>

Example: set advanced motion detection's region

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.advancedmotion&advanced_motion_enable=1&advanced_motion_window_rectangle_x=600&advanced_motion_window_rectangle_y=200&advanced_motion_window_rectangle_width=400&advanced_motion_window_rectangle_height=400&advanced_motion_sensitivity=8&ptz_motion_enabled=1&ptz_motion_zoom_time=3

Example: set preset region

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.advancedmotion&advanced_motion_window_rectangle_x_preset_3=1411&advanced_motion_window_rectangle_y_preset_3=0&advanced_motion_window_rectangle_width_preset_3=509&advanced_motion_window_rectangle_height_preset_3=1080

2.13.7 get.vca.tamper

To get tamper detection configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.tamper>

Parameter	Values	Description
tamper_enable	Boolean	Enable to detect 0: No 1: Yes
tamper_sensitivity	An unsigned integer 1~10	tamper detection sensitivity
tamper_trigger_schedule_[ch]	String	tamper detection schedule such as: tamper_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 Ch 0~6 means Sun~Sat.

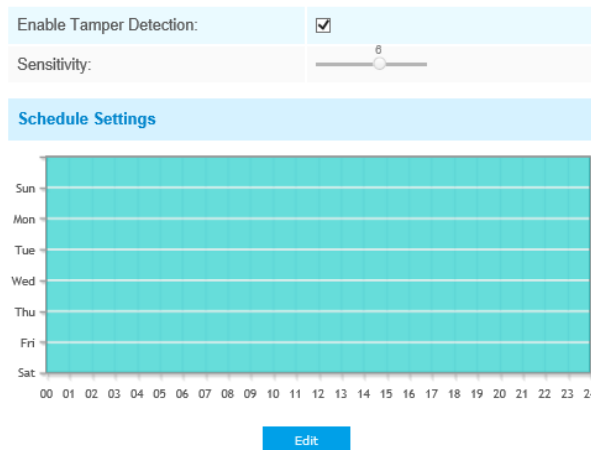


Figure 2-13-7

Example: Get tamper detection configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.tamper>

Return:

```
var tamper_enable = '1'; var tamper_sensitivity = '7'; tamper_trigger_schedule[0] =
'10000240000000000000000000000000'; tamper_trigger_schedule[1] = '10000240000000000000000000000000';
tamper_trigger_schedule[2] = '10000240000000000000000000000000'; tamper_trigger_schedule[3] =
'10000240000000000000000000000000'; tamper_trigger_schedule[4] = '10000240000000000000000000000000';
tamper_trigger_schedule[5] = '10000240000000000000000000000000'; tamper_trigger_schedule[6] =
'10000240000000000000000000000000';
```

Example: Get tamper detection configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.tamper&format=inf>

Return:

```
[VCA_TAMPER]
tamper_enable=1
tamper_sensitivity=7
tamper_trigger_schedule_0='10000240000000000000000000000000'
tamper_trigger_schedule_1='10000240000000000000000000000000'
```


linecrossing2_trigger_schedule_[ch]	String	Linecrossing 2 detection schedule
linecrossing3_trigger_schedule_[ch]	String	Linecrossing 3 detection schedule
scene	An unsigned integer	Effective Region Settings 0: Normal 1: Preset 1 2: Preset 2 3: Preset 3 4: Preset 4
preset[pid]_startX_[id]	An unsigned integer	start point X coordinates <i>[id]:line number</i> <i>[pid]:preset number</i>
preset[pid]_startY_[id]	An unsigned integer	start point Y coordinates
preset[pid]_stopX_[id]	An unsigned integer	stop point X coordinates
preset[pid]_stopY_[id]	An unsigned integer	stop point X coordinates
preset[pid]_direction_[id]	An unsigned integer 0~2	line's direction: 0: A->B 1: B->A 2: A<->B
obj_[id]	Integer -1~2	Detection Object -1: none 0: only Person 1: only Vehicle 2: Person and Vehicle
preset[pid]_obj_[id](abandoned)	Integer -1~2	Preset Detection Object -1 : none 0 : only Person 1 : only Vehicle 2 : Person and Vehicle

Line Crossing:	1
Enable Line Crossing Detection:	<input type="checkbox"/>
Direction:	A->B
Effective Region Settings:	Advanced
Effective with Presets:	Preset 1

Set Detection Lines



Clear Line

Note: Please draw the screen for setting!

Schedule Settings

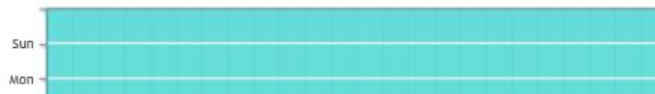


Figure 2-13-9

Example: Get linecrossing configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.alllinecrossing>

Return:

```
var rtsp_port = '554'; var media_profile_url = 'main'; var media_profile_resolution_width = '1920'; var media_profile_resolution_height = '1080'; var imaging_settings_osd_test = '0'; var system_io = '1'; var lineenable[0] = '0'; var startX[0] = '156'; var startY[0] = '252'; var stopX[0] = '1794'; var stopY[0] = '265'; var direction[0] = '0'; var lineenable[1] = '0'; var startX[1] = '0'; var startY[1] = '0'; var stopX[1] = '0'; var stopY[1] = '0'; var direction[1] = '0'; var lineenable[2] = '0'; var startX[2] = '0'; var startY[2] = '0'; var stopX[2] = '0'; var stopY[2] = '0'; var direction[2] = '0'; var lineenable[3] = '0'; var startX[3] = '0'; var startY[3] = '0'; var stopX[3] = '0'; var stopY[3] = '0'; var direction[3] = '0'; var scene = '1'; var preset1_startX[0] = '288'; var preset1_startY[0] = '837'; var preset1_stopX[0] = '1638'; var preset1_stopY[0] = '837'; var preset1_direction[0] = '0'; var preset1_startX[1] = '0';
```

..... (Result is too long, you can configure to see hided words in the settings.)

2.13.10 set.vca.alllinecrossing

Set linecrossing detection.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.alllinecrossing&<parameter>=<value>>

Example: set line 1

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.alllinecrossing&lineenable_0=1&startX_0=756&startY_0=576&stopX_0=1686&stopY_0=648&direction_0=0

Example: set preset1 line 1

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.alllinecrossing&preset1_startX_0=756&preset1_startY_0=576&preset1_stopX_0=1686&preset1_stopY_0=648&preset1_direction_0=2

2.13.11 get.vca.loitering

To get loitering detection configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.loitering>

Parameter	Values	Description
loitering_enable	Boolean	Enable to detect 0: No 1: Yes
loitering_detection_object	An unsigned integer -1~2	Detection Object -1: none 0: only Person 1: only Vehicle 2: Person and Vehicle
loitering_window_id	An unsigned integer 0~12	detection window ID
loitering_window_name (not implemented)	String, max 20	detection window nickname
loitering_window_color (not implemented)	An unsigned integer 0~2	detection window display color 0: Red 1: Green 2: Blue
loitering_window_rectangle_x	An unsigned integer	Top left X coordinates
loitering_window_rectangle_y	An unsigned integer	Top left Y coordinates
loitering_window_rectangle_width	An unsigned integer	detection window width
loitering_window_rectangle_height	An unsigned integer	detection window height
loitering_window_rectangle	Boolean	13X23 quadrille window 0: unchecked 1: checked
loitering_window_polygon_x	String	X coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
loitering_window_polygon_y	String	Y coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
min_loitering_time	An unsigned integer 3~300	minimum loitering detection time
loitering_object_size	An unsigned integer 1~100	loitering detection object size
loitering_trigger_schedule_[ch]	String	Loitering detection schedule such as: loitering_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable

		011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 <i>[ch]: 0~6 means Sun~Sat</i>
ptz_motion_enabled	Boolean	Enable PTZ Motion 0: No 1: YES
ptz_motion_zoom_time	An unsigned integer 2~12	Proportional Zoom Times 2X~12X
ptz_motion_recovery_time	An unsigned integer	PTZ Motion Recovery Time 3~10S,60S,120S,300S (Recovery time is not less than flash time)
scene	An unsigned integer	Effective Region Settings 0: Normal 1: Preset 1 2: Preset 2 3: Preset 3 4: Preset 4
loitering_window_rectangle_x_preset[pid]	An unsigned integer	pid: Preset Num (1~4) Preset's Region Top left X coordinates
loitering_window_rectangle_y_preset[pid]	An unsigned integer	pid: Preset Num (1~4) Preset's Region Top left Y coordinates
loitering_window_rectangle_width_preset[pid]	An unsigned integer	pid: Preset Num (1~4) Preset's Region detection window width
loitering_window_rectangle_height_preset[pid]	An unsigned integer	pid: Preset Num (1~4) Preset's Region detection window height
loitering_window_rectangle_preset[pid]		pid: Preset Num (1~4) Preset's Region
loitering_window_polygon_x_preset[pid]	String	X coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
loitering_window_polygon_y_preset[pid]	String	Y coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point

set_3=1411&loitering_window_rectangle_y_preset_3=0&loitering_window_rectangle_width_preset_3=509&loitering_window_rectangle_height_preset_3=1080

2.13.13 get.vca.humandetection

To get human detection configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.humandetection>

Parameter	Values	Description
human_detection_enable	Boolean	Enable to detect 0: No 1: Yes
show_tracks_enable	Boolean	Enable to show tracks 0: No 1: Yes
human_trigger_schedule_[ch]	String	human detection schedule such as: human_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 <i>[ch]: 0~6 means Sun~Sat</i>

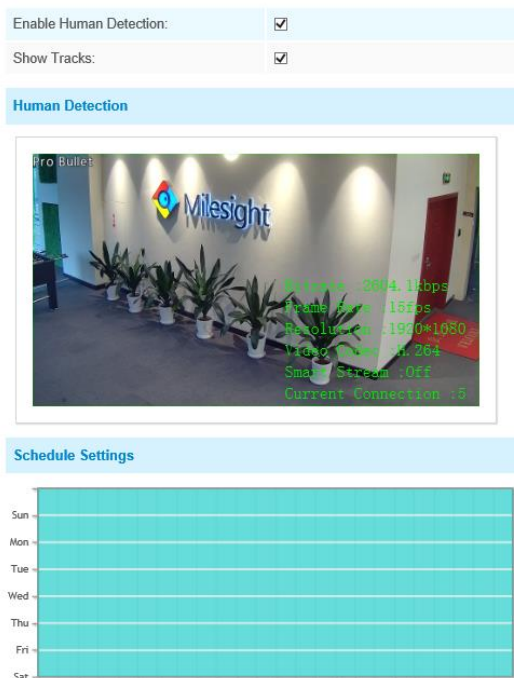


Figure 2-13-13

Example: Get human detection configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.humandetection>

Return:

```
var human_detection_enable = '0'; var show_tracks_enable = '0'; human_trigger_schedule[0] = '10000240000000000000000000000000'; human_trigger_schedule[1] = '10000240000000000000000000000000'; human_trigger_schedule[2] = '10000240000000000000000000000000'; human_trigger_schedule[3] = '10000240000000000000000000000000'; human_trigger_schedule[4] = '10000240000000000000000000000000';
```

```
human_trigger_schedule[5] = '1000024000000000000000000000'; human_trigger_schedule[6] =
'1000024000000000000000000000';
```

Example: Get tamper detection configuration

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.humandetection&format=inf
```

Return:

```
[VCA_HUMAN_DETECTION]
human_detection_enable=0
show_tracks_enable=0
human_trigger_schedule_0='1000024000000000000000000000'
human_trigger_schedule_1='1000024000000000000000000000'
human_trigger_schedule_2='1000024000000000000000000000'
human_trigger_schedule_3='1000024000000000000000000000'
human_trigger_schedule_4='1000024000000000000000000000'
human_trigger_schedule_5='1000024000000000000000000000'
human_trigger_schedule_6='1000024000000000000000000000'
```

2.13.14 set.vca.humandetection

Set human detection.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.humandetection&<parameter>=<value>
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.humandetection&human_detection_enable
=1&show_tracks_enable=1&human_trigger_schedule_0=1000012001300150016002300
```

2.13.15 get.vca.count

To get people counting configuration.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.count
```

Parameter	Values	Description
count_enable	Boolean	Enable to detect 0 : No 1 : Yes
startX_0	An unsigned integer	start point X coordinates
startY_0	An unsigned integer	start point Y coordinates
stopX_0	An unsigned integer	stop point X coordinates
stopY_0	An unsigned integer	stop point X coordinates
direction(not implement)	An unsigned integer 0~2	line's direction:(fixed value 1) 0:A->B 1:B->A 2:A<->B [ch]:line num
show_osd_enable_0	Boolean	Enable to show osd 0 : No 1 : Yes
osd_type	An unsigned integer	osd type: In -> (1 << 0) Out -> (1 << 1) Sum -> (1 << 2) Capacity -> (1 << 3)
osd_font_size_0	An unsigned integer	osd font size:

	integer 0~5	0:smallest 1:small 2:medium 3:large 4:largest 5:auto
osd_text_position_0	An unsigned integer 0~3	0:Top-Left 1:Top-Right 2:Bottom-Left 3:Bottom-Right
osd_font_color_0	String, max 6	For Example: 255:0:0
alarm_trigger_enable_0	Boolean	Enable to trigger alarm 0 : No 1 : Yes
alarm_trigger_enable_by_in_0	Boolean	Enable to trigger alarm by in-thresholds 0 : No 1 : Yes
alarm_trigger_enable_by_out_0	Boolean	Enable to trigger alarm by out-thresholds 0 : No 1 : Yes
alarm_trigger_enable_by_capacity_0	Boolean	Enable to trigger alarm by sum-thresholds 0 : No 1 : Yes
alarm_trigger_enable_by_sum_0	Boolean	Enable to trigger alarm by sum-thresholds 0 : No 1 : Yes
in_thresholds_0	An unsigned integer 1~9999	Thresholds: in
out_thresholds_0	An unsigned integer 1~9999	Thresholds: out
capacity_thresholds_0	An unsigned integer 1~9999	Thresholds: capacity
sum_thresholds_0	An unsigned integer 1~9999	Thresholds: sum
count_trigger_schedule_[ch]	String	Count detection schedule such as: count_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00
auto_reset_enable	Boolean	Enable to auto reset 0 : No 1 : Yes
auto_reset_weekday	An unsigned integer 0~7	weekday
auto_reset_hour	An unsigned integer 0~23	hour

auto_reset_min	An unsigned integer 0~59	minute
auto_reset_sec	An unsigned integer 0~59	second
scene	An unsigned integer	Effective Region Settings 0:Normal 1:Preset 1 2:Preset 2 3:Preset 3 4:Preset 4
startX_preset[p]	An unsigned integer	start point X coordinates [p]:preset num
startY_preset[p]	An unsigned integer	start point Y coordinates [p]:preset num
stopX_preset[p]	An unsigned integer	stop point X coordinates [p]:preset num
stopY_preset[p]	An unsigned integer	stop point X coordinates [p]:preset num

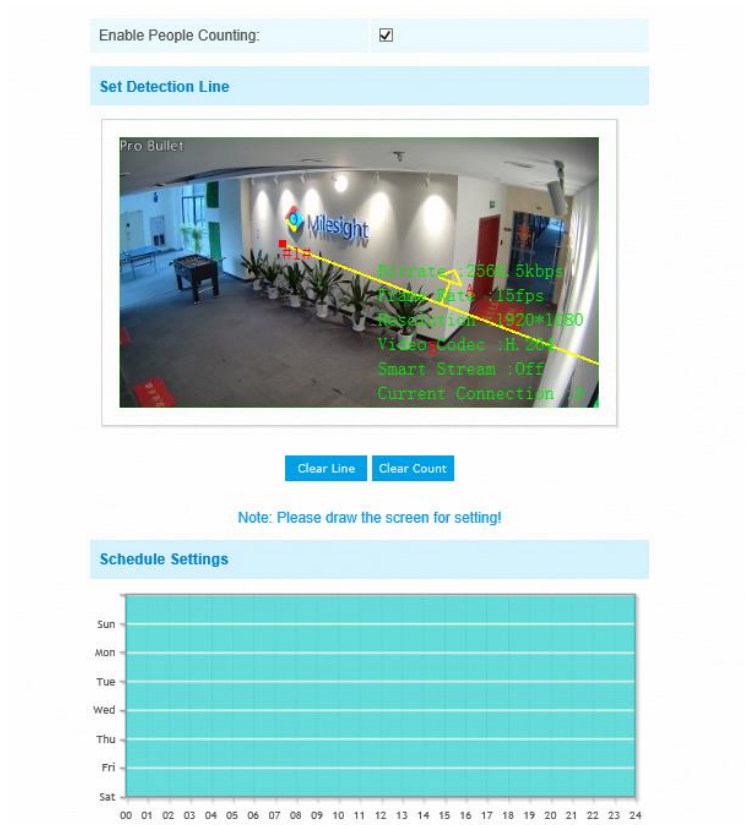


Figure 2-13-15-1

Counting OSD	
Show Counting OSD:	<input type="checkbox"/>
Font Size:	Small
Font Color:	<input type="text" value=""/>
Text Position:	Top-Left
Enable Auto Reset:	<input type="checkbox"/>
Log Settings	
Logs:	<input type="button" value="Edit"/>
Enable Auto Export Logs:	<input type="checkbox"/>
Alarm Trigger	
Enable Alarm	<input type="checkbox"/>
Thresholds:	<input type="checkbox"/> In: <input type="text" value="9999"/> <input type="checkbox"/> Out: <input type="text" value="9999"/> <input type="checkbox"/> Capacity: <input type="text" value="9999"/> <input type="checkbox"/> Sum: <input type="text" value="9999"/>

Figure 2-13-15-2

Example: Get people counting configuration
<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.count>

Return:

```
var rtsp_port = '554'; var media_profile_url = 'main'; var media_profile_resolution_width = '1920'; var
media_profile_resolution_height = '1080'; var system_io = '1'; var count_enable = '1'; var startX[0] = '282'; var
startY[0] = '139'; var stopX[0] = '1662'; var stopY[0] = '918'; var show_osd_enable[0] = '1'; var osd_font_size[0]
= '1'; var osd_text_position[0] = '0'; var osd_font_color[0] = '255:255:255'; var alarm_trigger_enable[0] = '1';
var alarm_trigger_enable_by_in[0] = '1'; var alarm_trigger_enable_by_out[0] = '1'; var
alarm_trigger_enable_by_capacity[0] = '0'; var alarm_trigger_enable_by_sum[0] = '0'; var in_thresholds[0] =
'9999'; var out_thresholds[0] = '9999'; var capacity_thresholds[0] = '9999'; var sum_thresholds[0] = '9999'; var
auto_reset_enable = '1'; var auto_reset_weekday = '7'; var auto_reset_hour = '0'; var auto_reset_min = '0';
var auto_reset_sec = '0'; var scene = '0'; var startX_preset[1] = '366'; var startY_preset[1] = '198'; var
stopX_preset[1] = '324'; var stopY_preset[1] = '972'; var startX_preset[2] = '1692'; var startY_preset[2] = '229';
var stopX_preset[2] = '1686'; var stopY_preset[2] = '999'; var startX_preset[3] = '0'; var startY_preset[3] = '0';
var stopX_preset[3] = '0'; var stopY_preset[3] = '0'; var startX_preset[4] = '0'; var startY_preset[4] = '0'; var
stopX_preset[4] = '0'; var stopY_preset[4] = '0'; var count_trigger_schedule[0] =
'1000024000000000000000000000'; var count_trigger_schedule[1] = '1000024000000000000000000000'; var
count_trigger_schedule[2] = '1000024000000000000000000000'; var count_trigger_schedule[3] =
'1000024000000000000000000000'; var count_trigger_schedule[4] = '1000024000000000000000000000'; var
count_trigger_schedule[5] = '1000024000000000000000000000'; var count_trigger_schedule[6] =
'1000024000000000000000000000';
```

2.13.16 set.vca.count

Set people counting.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.count&<parameter>=<value>>
Example:
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.count&count_enable=1&startX_0=756&startY_0=576&stopX_0=1686&stopY_0=648&show_osd_enable_0=1&osd_font_size_0=0&osd_text_position_0=0&alarm_trigger_enable_0=1&alarm_trigger_enable_by_in_0=1&in_thresholds_0=520&auto_reset_enable=1&auto_reset_weekday=7&auto_reset_hour=0&auto_reset_min=0&auto_reset_sec=0&osd_type_0=7
Example: set preset line
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.count&startX_preset_1=1692&startY_preset_1=229&stopX_preset_1=1689&stopY_preset_1=999

2.13.17 set.vca.cleancount

Clear people counting in and out number.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.cleancount<parameter>=<value>
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.cleancount&incount=0&outcount=0
```

2.13.18 get.vca.settings

To get VCA configuration.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.settings
```

Parameter	Values	Description
vca_process_fps	Boolean	process fps support: 5,10,15,20,25fps
vca_scenario_mode	An unsigned integer 0~1	scenario mode 0: indoor 1: outdoor
vca_camera_installation	An unsigned integer	camera installation 0: horizontal view 1: overhead view 2: angle view
vca_analysis_type	An unsigned integer 2~3	analysis type 2: standard 3: advanced
minobject_window_rectangle_x_<ch>	An unsigned integer 0~320	Minimum object Top left X coordinates <ch>: 0: Region Entrance 1: Region Exiting 2: Line Crossing 3: Loitering 4: Human Detection 5: People Counting 6: Object Left/Removed 7: Advanced Motion Detection 8: Regional People Counting
minobject_window_rectangle_y_<ch>	An unsigned integer 0~240	Minimum object Top left Y coordinates
minobject_window_rectangle_width_<ch>	An unsigned integer 1~320	Minimum object width
minobject_window_rectangle_height_<ch>	An unsigned integer 1~240	Minimum object height
maxobject_window_rectangle_x_<ch>	An unsigned integer 0~320	Maximum object Top left X coordinates
maxobject_window_rectangle_y_<ch>	An unsigned integer 0~240	Maximum object Top left Y coordinates
maxobject_window_rectangle_width_<ch>	An unsigned integer	Maximum object width

	1~320	
maxobject_window_rectangle_height_<ch>	An unsigned integer 1~240	Maximum object height

Process FPS:

Scenario Mode:

Camera Installation:

Analysis Type:

License:

License Status:

Set Object Size Limits

Minimum Size : x pixel(1X1~320X240)
 Maximum Size : x pixel(1X1~320X240)

Note: Please draw the screen or input pixel number for setting!

Figure 2-13-18

Example: Get settings configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.settings>

Return:

```
var rtsp_port = '554'; var media_profile_url = 'main'; var media_profile_resolution_width = '3840'; var media_profile_resolution_height = '2160'; var imaging_settings_osd_test = '0'; var system_io = '1'; var system_vca_type = '1'; var vca_process_fps[0] = '10'; var vca_scenario_mode[0] = '1'; var vca_camera_installation[0] = '2'; var vca_analysis_type[0] = '2'; var minobject_window_rectangle_x[0] = '160'; var minobject_window_rectangle_y[0] = '120'; var minobject_window_rectangle_width[0] = '3'; var minobject_window_rectangle_height[0] = '3'; var maxobject_window_rectangle_x[0] = '0'; var maxobject_window_rectangle_y[0] = '0'; var maxobject_window_rectangle_width[0] = '320'; var maxobject_window_rectangle_height[0] = '240'; var minobject_window_rectangle_x[1] = '160'; var minobject_window_rectangle_y[1] = '120'; var minobject_window_rectangle_width[1] = '9'; var minobject_window_rectangle_height[1] = '3'; var maxobject_window_rectangle_x[1] = '0'; var maxobject_window_rectangle_y[1] = '0'; var maxobject_window_rectangle_width[1] = '320'; var maxobject_window_rectangle_height[1] = '240'; var minobject_window_rectangle_x[2] = '160'; var minobject_window_rectangle_y[2] = '120'; var minobject_window_rectangle_width[2] = '3'; var minobject_window_rectangle_height[2] = '3'; var maxobject_window_rectangle_x[2] = '0'; var maxobject_window_rectangle_y[2] = '0'; var maxobject_window_rectangle_width[2] = '320'; var maxobject_window_rectangle_height[2] = '240'; var minobject_window_rectangle_x[3] = '160'; var minobject_window_rectangle_y[3] = '120'; var minobject_window_rectangle_width[3] = '3'; var minobject_window_rectangle_height[3] = '3'; var maxobject_window_rectangle_x[3] = '0'; var maxobject_window_rectangle_y[3] = '0'; var maxobject_window_rectangle_width[3] = '320'; var maxobject_window_rectangle_height[3] = '240'; var minobject_window_rectangle_x[4] = '160'; var minobject_window_rectangle_y[4] = '120'; var minobject_window_rectangle_width[4] = '3'; var minobject_window_rectangle_height[4] = '3'; var maxobject_window_rectangle_x[4] = '0'; var maxobject_window_rectangle_y[4] = '0'; var maxobject_window_rectangle_width[4] = '320'; var maxobject_window_rectangle_height[4] = '240'; var minobject_window_rectangle_x[5] = '160'; var minobject_window_rectangle_y[5] = '120'; var minobject_window_rectangle_width[5] = '3'; var minobject_window_rectangle_height[5] = '3'; var maxobject_window_rectangle_x[5] = '0'; var maxobject_window_rectangle_y[5] = '0'; var maxobject_window_rectangle_width[5] = '320'; var
```

```
maxobject_window_rectangle_height[5] = '240'; var minobject_window_rectangle_x[6] = '160'; var
minobject_window_rectangle_y[6] = '120'; var minobject_window_rectangle_width[6] = '3'; var
minobject_window_rectangle_height[6] = '3'; var maxobject_window_rectangle_x[6] = '0'; var
maxobject_window_rectangle_y[6] = '0'; var maxobject_window_rectangle_width[6] = '320'; var
maxobject_window_rectangle_height[6] = '240';
```

Example: Get settings configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.settings&format=inf>

Return:

```
[VCA_SETTINGS]
rtsp_port=554
media_profile_url=main
media_profile_resolution_width=3840
media_profile_resolution_height=2160
imaging_settings_osd_test=0
system_io=1
system_vca_type=1
vca_process_fps_0=10
vca_scenario_mode_0=1
vca_camera_installation_0=2
vca_analysis_type_0=2
minobject_window_rectangle_x_0=160
minobject_window_rectangle_y_0=120
minobject_window_rectangle_width_0=3
minobject_window_rectangle_height_0=3
maxobject_window_rectangle_x_0=0
maxobject_window_rectangle_y_0=0
maxobject_window_rectangle_width_0=320
maxobject_window_rectangle_height_0=240
```

..... (Result is too long, you can configure to see the hided words in the settings.)

2.13.19 set.vca.settings

To set VCA settings.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.settings&<parameter>=<value>>

Parameter	Values	Description
reset_window_rectangle_<ch>	An unsigned integer 0~1	Reset <ch> Max Size and Min Size <ch>: 0: Region Entrance 1: Region Exiting 2: Line Crossing 3: Loitering 4: Human Detection 5: People Counting 6: Object Left/Removed 7: Advanced Motion

Example:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.settings&vca_process_fps=15&vca_scenario_mode=0&vca_camera_installation=1&vca_analysis_type=2&minobject_window_rectangle_x_0=160&minobject_window_rectangle_y_0=120&minobject_window_rectangle_width_0=3&minobject_window_rectangle_height_0=3&maxobject_window_rectangle_x_0=0&maxobject_window_rectangle_y_0=0&maxobject_window_rectangle_width_0=320&maxobject_window_rectangle_height_0=240

2.13.20 get.vca.alarmstatus

To get vca alarm status.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.alarstatus>

Parameter	Values	Description
region_entrance_alarm_status	Boolean	status 0: None 1: Alarm
region_exit_alarm_status	Boolean	status 0: None 1: Alarm
advanced_motion_alarm_status	Boolean	status 0: None 1: Alarm
tamper_alarm_status	Boolean	status 0: None 1: Alarm
loitering_entrance_alarm_status	Boolean	status 0: None 1: Alarm
linecrossing1_alarm_status	Boolean	status 0: None 1: Alarm
linecrossing2_alarm_status	Boolean	status 0: None 1: Alarm
linecrossing3_alarm_status	Boolean	status 0: None 1: Alarm
linecrossing4_alarm_status	Boolean	status 0: None 1: Alarm
counter_alarm_status	Boolean	status 0: None 1: Alarm
human_alarm_status	Boolean	status 0: None 1: Alarm
current_in_count	An unsigned integer	People Counting current in-count
current_out_count	An unsigned integer	People Counting current out-count
current_sum_count	An unsigned integer	People Counting current sum-count
current_capacity_count	An unsigned integer	People Counting current capacity-count
current_counter_alarm	An unsigned integer	0: None 1: In Alarm 2: Out Alarm 4: Capacity Alarm 8: Sum Alarm eg : 5 → In Alarm And Capacity Alarm
object_left_alarm_status	Boolean	status 0: None 1: Alarm

object_remove_alarm_status	Boolean	status 0: None 1: Alarm
----------------------------	---------	-------------------------------

Example: Get vca alarm status configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.alarmstatus>

Return:

```
var region_entrance_alarm_status = '1'; var region_exit_alarm_status = '0'; var
advanced_motion_alarm_status = '1'; var tamper_alarm_status = '0'; var loitering_entrance_alarm_status =
'0'; var linecrossing1_alarm_status = '0'; var linecrossing2_alarm_status = '0'; var linecrossing3_alarm_status
= '0'; var linecrossing4_alarm_status = '0'; var counter_alarm_status = '0'; var human_alarm_status = '0'; var
current_in_count = '5'; var current_out_count = '0'; var object_left_alarm_status = '0'; var
object_remove_alarm_status = '0';
```

2.13.21 get.vca.license

To get vca license.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.license>

Parameter	Values	Description
vca_license_status	An unsigned integer	status 0 : Invalid 1 : Valid 2 : Loading,wait a moment
vca_license	String	

Example: Get human vca alarmstatus

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.alarmstatus>

Return:

```
var vca_license_status = '1'; var vca_license = 'BBxt02BBKmhBB11jx1twwBu5vxvF';
```

2.13.22 set.vca.license

Set vca license.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.license&<parameter>=<value>>

Example:

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.license&vca_license=BBxt02BBKmhBB11jx1twwBu5vxvF

2.13.23 get.vca.personpoint

To get person info of human detection.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.license>

Parameter	Values	Description
vca_person_num	An unsigned integer	Person Count
id[index]	An unsigned integer	
type[index]	An unsigned integer	0: unknown

	integer	1: Person
startX[index]	An unsigned integer	start point X coordinates of person rectangle
startY[index]	An unsigned integer	start point Y coordinates of person rectangle
stopX[index]	An unsigned integer	stop point X coordinates of person rectangle
stopY[index]	An unsigned integer	stop point X coordinates of person rectangle

Example:

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.personpoint>

Return:

```
var media_profile_resolution_width = '2048'; var media_profile_resolution_height = '1536'; var region_entrance_enable = '0'; var vca_person_num = '3'; var id[0] = '1'; var type[0] = '0'; var startX[0] = '0'; var stopX[0] = '819'; var startY[0] = '512'; var stopY[0] = '1484'; var id[1] = '3'; var type[1] = '0'; var startX[1] = '153'; var stopX[1] = '204'; var startY[1] = '819'; var stopY[1] = '665'; var id[2] = '5'; var type[2] = '0'; var startX[2] = '1382'; var stopX[2] = '563'; var startY[2] = '1587'; var stopY[2] = '768';
```

Example:

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.personpoint&format=inf>

Return:

```
[VCA_PERSON_POINT]
media_profile_resolution_width=2048
media_profile_resolution_height=1536
vca_person_num=3
id_0=0
type_0=0
startX_0=742
stopX_0=204
startY_0=1510
stopY_0=768
id_1=2
type_1=0
startX_1=51
stopX_1=972
startY_1=563
stopY_1=1484
id_2=3
type_2=0
startX_2=76
stopX_2=153
startY_2=435
stopY_2=563
```

2.13.24 vcalogcsv

To download VCA people counting log. (result will be shown as csv file.)

Usage:

http://<IP>/dataloader.cgi?dw=vcalogcsv&type=<value>&time_start=<value>&time_end=<value>

Parameter	Values	Description
type	An unsigned integer 0~4	0: All 1: In 2: Out

		3: Capacity 4: Sum
--	--	-----------------------

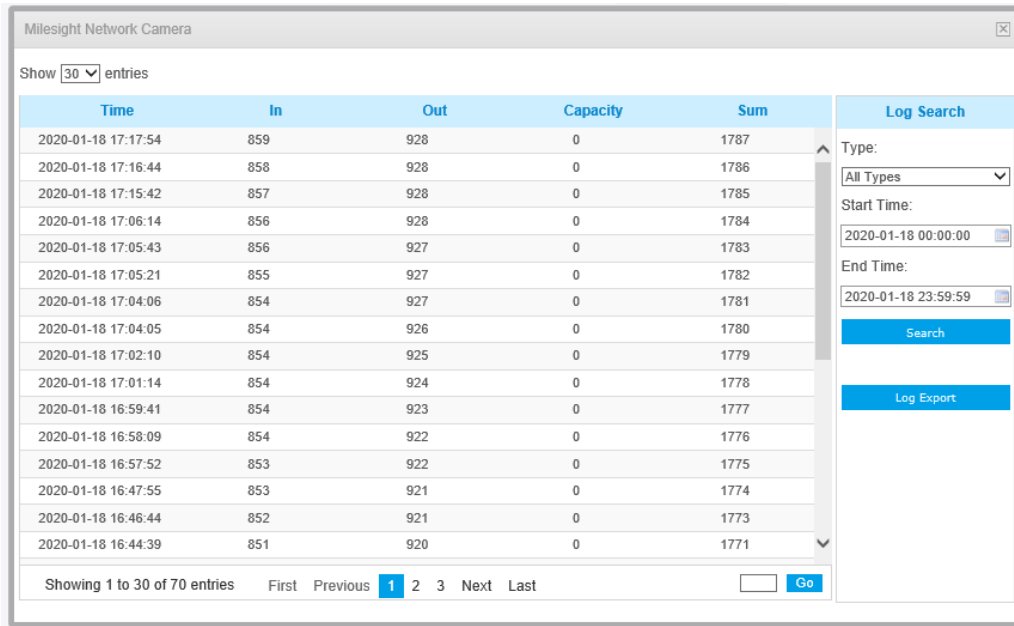


Figure 2-13-24

Example:

http://192.168.0.200/dataloader.cgi?dw=vcalogcsv&type=0&time_start=2018-10-9-11:23:40&time_end=2018-10-10-15:33:45

2.13.25 get.vca.export

To get people counting log export(Auto Export).

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.export>

Parameter	Values	Description
auto_export_enable	Boolean	Enable to auto export 0: No 1: Yes
auto_export_method	An unsigned integer 0~7	Export method 1: FTP 2: SMTP 4: Storage FTP+SMTP->1+2=3 FTP+Storage->1+4=5 ...
auto_export_weekday	An unsigned integer 0~7	weekday
auto_export_hour	An unsigned integer 0~23	hour
auto_export_min	An unsigned integer 0~59	minute
auto_export_sec	An unsigned integer 0~59	second

auto_export_time_range	An unsigned integer 0~2	Time range 0: All 1: Last 1 day 2: Last 1 week
------------------------	----------------------------	---

Example: Get people counting's auto export configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.vca.export>

Return:

```
var auto_export_enable = '0'; var auto_export_method = '3'; var auto_export_weekday = '2'; var auto_export_time = '17:33:20'; var auto_export_enable = '2';
```

2.13.26 set.vca.export

Set auto export of people counting log.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.vca.export&<parameter>=<value>>

Example: set auto export to FTP.

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.vca.count&auto_export_enable=1&auto_export_method=1

2.13.27 get.vca.leftremove

To get object left/remove configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.vca.leftremove>

Parameter	Values	Description
left_enable	Boolean	Enable to detect left 0: No 1: Yes
remove_enable	Boolean	Enable to detect remove 0: No 1: Yes
object_left_remove_sens (add in 75 version)	An unsigned integer 1~10	Object left/removed sensitivity
region_window_id	An unsigned integer 0~12	detection window ID
region_window_name (not implemented)	String, max 20	detection window nickname
region_window_color (not implemented)	An unsigned integer 0~2	detection window display color 0: Red 1: Green 2: Blue
region_window_rectangle_x	An unsigned integer	Top left X coordinates
region_window_rectangle_y	An unsigned integer	Top left Y coordinates
region_window_rectangle_width	An unsigned integer	detection window width
region_window_rectangle_height	An unsigned integer	detection window height
region_window_rectangle		
region_window_polygon_x	String	X coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1

		Ranges: 0~1024 -1 means no point
region_window_polygon_y	String	Y coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
min_time	An unsigned integer 10~1800	minimum detection time
leftremove_trigger_schedule_[ch]	String	Left/Remove detection schedule such as: leftremove_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 [ch] 0~6 means Sun~Sat.
scene	An unsigned integer	Effective Region Settings 0: Normal 1: Preset 1 2: Preset 2 3: Preset 3 4: Preset 4
region_window_rectangle_x_preset[pid]	An unsigned integer	Preset's Region Top left X coordinates [pid];preset number (1~4)
region_window_rectangle_y_preset[pid]	An unsigned integer	Preset's Region Top left Y coordinates
region_window_rectangle_width_preset[pid]	An unsigned integer	Preset's Region detection window width
region_window_rectangle_height_preset[pid]	An unsigned integer	Preset's Region detection window height
region_window_rectangle_preset[pid]		Preset's Region
region_window_polygon_x_preset[pid]	String	X coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point
region_window_polygon_y_preset[pid]	String	Y coordinates of the Preset polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point

2.14 Audio

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
AUDIO	get.audio	Get Audio information (sample rate).
	set.audio	Set Audio information (sample rate).
	get.audio.options	Get audio sample rate and bit rate options.
	play.audio	Play audio files.
	get.audio.file	Get audio file information.
	set.audio.file	Set audio file name or delete the audio file.

2.14.1 get.audio

Get Audio information.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.audio
```

Parameter	Values	Description
system_misc_audiooutvolume	An integer -73 ~ 6	Audio output volume (db) 6 is mean +6db
audio_setting_enabled	Boolean	Enable audio-in source 0: Disable 1: Enable
audio_setting_codec	An unsigned integer 1 ~ 5	Select audio encode format 1: AAC LC 2: G.711 u-Law 3: G.711 a-Law 4: G.722 5: G.726
audio_setting_source	Boolean	Select audio-in source 0: MIC 1: Line-in
audio_setting_mode	An unsigned integer 0~ 2	Audio mode 0: Only mic 1: Only speaker 2: Both audio input and output
audio_setting_denoise	Boolean	Audio denoise 0: Disable 1: Enable
audio_setting_input_gain	An integer 0 ~ 100	Audio input gain
audio_setting_alarm_level	An integer 0 ~ 100	Audio alarm level
audio_setting_output_volume	An integer 0 ~ 100	Output volume
sample_rate	An unsigned integer	Audio Sample Rate 0: 8KHz 1: 16KHz 2: 32KHz 3: 44.1KHz 4: 48KHz
audio_bit_rate	An unsigned	Audio Bit Rate

	integer	16: 16kbps 24: 24kbps 32: 32kbps 48: 48kbps 64: 64kbps 96: 96kbps 128: 128kbps 144: 144kbps 192: 192kbps 256: 256kbps <i>Note: only available for AAC type.</i>
audio_file_storage_type	An unsigned integer	Audio File Storage Type 0 : Flash 1 : SD

Audio Audio File Manager

Figure 2-14-1

Example: get audio information(sample rate)

`http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.audio`

Return:

```
var system_misc_audiooutvolume = '-34'; var audio_setting_enabled = '1'; var audio_setting_codec = '2'; var audio_setting_source = '0'; var audio_setting_mode = '2'; var audio_setting_denoise = '1'; var audio_setting_input_gain = '50'; var audio_setting_alarm_level = '50'; var audio_setting_output_agc = '0'; var audio_setting_output_volume = '50'; var sample_rate = '1'; var audio_bit_rate = '96';
```

2.14.2 set.audio

Set Audio information.

Usage:

`http://<IP>/cgi-bin/operator/operator.cgi?action=set.audio<parameter>=<value>`

Example:

`http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.audio&sample_rate=1&audio_bit_rate=32&system_misc_audiooutvolume=-8&audio_setting_source=0&audio_setting_codec=1&audio_setting_enabled=1`

2.14.3 get.audio.options

To get audio sample rate and bit rate options.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.audio.options>

Parameter	Values	Description
audio_codec_<ch>_sample_rate_<index>	Integer	ch means Audio Encoding, 1 means AAC LC, 2 means G.711-ULaw, 3 means G.711-ALaw, 4 means G.722, 5 means G.726
audio_sample_rate_<ch>_bit_rate_<index>	Integer	Ch means Audio Sample Rate, 0 means 8KHz, 1 means 16KHz, 2 means 32KHz, 3 means 44.1KHz, 4 means 48KHz

Example: Get audio sample rate and bit rate options

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.audio.options>

Return:

```
var audio_codec_0 = '1'; var audio_codec_1 = '2'; var audio_codec_2 = '3'; var audio_codec_3 = '4'; var
audio_codec_4 = '5'; var audio_codec_1_sample_rate_0 = '0'; var audio_codec_1_sample_rate_1 = '1'; var
audio_codec_2_sample_rate_0 = '0'; var audio_codec_2_sample_rate_1 = '1'; var
audio_codec_3_sample_rate_0 = '0'; var audio_codec_3_sample_rate_1 = '1'; var
audio_codec_4_sample_rate_0 = '1'; var audio_codec_5_sample_rate_0 = '0'; var
audio_sample_rate_0_bit_rate_0 = '16'; var audio_sample_rate_0_bit_rate_1 = '24'; var
audio_sample_rate_0_bit_rate_2 = '32'; var audio_sample_rate_0_bit_rate_3 = '48'; var
audio_sample_rate_1_bit_rate_0 = '24'; var audio_sample_rate_1_bit_rate_1 = '32'; var
audio_sample_rate_1_bit_rate_2 = '48'; var audio_sample_rate_1_bit_rate_3 = '64'; var
audio_sample_rate_1_bit_rate_4 = '96'; var audio_sample_rate_2_bit_rate_0 = '32'; var
audio_sample_rate_2_bit_rate_1 = '48'; var audio_sample_rate_2_bit_rate_2 = '64'; var
audio_sample_rate_2_bit_rate_3 = '96'; var audio_sample_rate_2_bit_rate_4 = '128'; var
audio_sample_rate_2_bit_rate_5 = '192'; var audio_sample_rate_3_bit_rate_0 = '48'; var
audio_sample_rate_3_bit_rate_1 = '64'; var audio_sample_rate_3_bit_rate_2 = '96'; var
audio_sample_rate_3_bit_rate_3 = '128'; var audio_sample_rate_3_bit_rate_4 = '144'; var
audio_sample_rate_3_bit_rate_5 = '192'; var audio_sample_rate_3_bit_rate_6 = '256'; var
audio_sample_rate_4_bit_rate_0 = '48'; var audio_sample_rate_4_bit_rate_1 = '64'; var
audio_sample_rate_4_bit_rate_2 = '96'; var audio_sample_rate_4_bit_rate_3 = '128'; var
audio_sample_rate_4_bit_rate_4 = '144'; var audio_sample_rate_4_bit_rate_5 = '192'; var
audio_sample_rate_4_bit_rate_6 = '256';
```

2.14.4 play.audio

To play audio files.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=play.audio>

Parameter	Values	Description
-----------	--------	-------------

event	Integer	Alarm Evrnt: 0: ALARM_EVENT_MOTION 1: ALARM_EVENT_NETWORK_LOST 2: ALARM_EVENT_AUDIO_IN 3: ALARM_EVENT_DINPUT 4: ALARM_EVENT_TAMPER 5: ALARM_EVENT_PIR 6: ALARM_EVENT_IP_CONFLICT 7: ALARM_EVENT_DINPUT_EXTRA 8: ALARM_EVENT_IR_RECT 9: ALARM_EVENT_VCA_INTRUSION_ENTER 10: ALARM_EVENT_VCA_INTRUSION_EXIT 11: ALARM_EVENT_VCA_LOITERING 12: ALARM_EVENT_VCA_ADVANCED_MOTION 13: ALARM_EVENT_VCA_LINECROSSING 14: ALARM_EVENT_VCA_COUNTER 15: ALARM_EVENT_VCA_HUMAN 16: ALARM_EVENT_VCA_CTD 17:ALARM_EVENT_VCA_FACE 18: ALARM_EVENT_LPR 19: ALARM_EVENT_ANR
file	Integer 1 ~ 5	Audio File
time	Integer	Times of play
force	Boolean	Force playing
io_relayoutput_token	Integer	GPOUT number, max numbers depends on model type.
io_command	Boolean	0: Inactive (equals to normal status). 1: Active (the reverse of normal status).

Example: Play audio files.

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=play.audio&event=12&file=1&time=3&force=1&io_relayoutput_token=0&io_command=1
```

2.14.5 get.audio.file

To get audio file information.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.audio.file
```

Parameter	Values	Description
audio_file_name_array<index>	String	Audio File Name

Example: Get audio file information

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.audio.file
```

Return:

```
var audio_file_storage_type = '0'; var audio_file_name_array0 = '8k'; var audio_file_name_array1 = '16';
```

2.14.6 set.audio.file

Set Audio File Name.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.audio.file&<parameter>=<value>
```

Parameter	Values	Description
cmd	An unsigned integer	Command 0 : delete audio file 1 : add audio file
audio_file_index	An unsigned integer	Audio File Index
audio_file_name	String	Audio File Name

Example: delete audio file

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.audio.file&cmd=0&audio_file_index=0

Example: add audio file

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.audio.file&cmd=1&audio_file_index=1&audio_file_name=name

2.15 License Plate Recognition

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
LICENSE PLATE RECOGNITION	get.lpr.settings	Get LPR settings (detection resolution, ROI region, schedule, LPR message post...).
	set.lpr.settings	Set LPR settings (detection resolution, ROI region, schedule, LPR message post...).
	get.lpr.license	Get LPR license.
	set.lpr.license	Set LPR license.
	add.lprlist.plate	Add black/white list.
	update.lprlist.plate	Modify black/white list.
	get.lpr.list	Get black/white list.
	get.lpr.log	Get LPR logs.
	get.lprblack.settings	Get black list mode settings.
	set.lprblack.settings	Set black list mode settings.
	get.lprwhite.settings	Get white list mode settings.
	set.lprwhite.settings	Set white list mode settings.
	get.lprvisitor.settings	Get visitor mode settings.
	set.lprvisitor.settings	Set visitor mode settings.
	lprlistcsv	Download black/white list.
	lprlogcsv	Download LPR logs.
	get.lprlist.uploadstatus	Get black/white list uploading status and upload list.
	get.lpr.lastdata	Get LPR last 10 data.
del.lprlist.plate	Delete black/white list.	
get.lpr.wildcards	Get License Plate Serial Format.	

set.lpr.wildcards	Set License Plate Serial Format.
get.lpr.advanced	Get LPR advanced settings.
set.lpr.advanced	Set LPR advanced settings.
get.lpr.listschedule	Get LPR Black/White List schedule.
set.lpr.listschedule	Set LPR Black/White List schedule.

2.15.1 get.lpr.settings

To get LPR configuration.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.settings>

Parameter	Values	Description
lpr_enable	Boolean	Enable to LPR function 0: No 1: Yes (LPR and Auto Tracking are mutually exclusive.)
lpr_resolution_width	An unsigned integer	Width of The LPR detection resolution
lpr_resolution_height	An unsigned integer	Height of The LPR detection resolution
lpr_area_x	An unsigned integer	start point X coordinates of the detection area
lpr_area_y	An unsigned integer	start point Y coordinates of the detection area
lpr_area_width	An unsigned integer	width of the detection area
lpr_area_height	An unsigned integer	height of the detection area
lpr_roi_position_<num>	An unsigned integer	LPR roi position num:0-3 such as: 0:0:1280:720 (left:top:right:bottom)
lpr_roi_name_<num>	String	(Encode Url First)
lpr_preset<pid>_roi_position_<num>	An unsigned integer	LPR ROI position (preset1:lpr_preset1_roi_position) such as: 0:0:1280:720 (left:top:right:bottom) [num]: 0-3 [pid]: preset number
lpr_preset<pid>_roi_name_<num>	String	(Encode Url First)
lpr_day_night_mode_enable (LPR3 support)	An unsigned integer	
lpr_speed_detect (LPR3 support)	An unsigned integer	Enable Detect Speed 0: disbale 1: enable
lpr_camera_height (LPR3 support)	An float number	Camera Hight (m)
vlpr_line1_pixel (LPR3 support)	An unsigned integer	Line1 Pixel (10-90)

vlpr_line2_pixel (LPR3 support)	An unsigned integer	Line2 Pixel (10-90)
vlpr_line1_distance (LPR3 support)	An float number	Horizontal Distance1 (m)
vlpr_line2_distance (LPR3 support)	An float number	Horizontal Distance2 (m)
lpr_trigger_schedule_[ch]	String	LPR detection schedule such as: lpr_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 <i>[ch] 0~6 means Sun~Sat.</i>
lpr_post_enable	Boolean	Enable LPR Message Post 0: No 1: Yes
lpr_post_type	An unsigned integer	0: RTSP 1: TCP 2: HTTP
lpr_post_tcp_port	An unsigned integer	
lpr_post_http_method	An unsigned integer	Http Method 0: Get 1: Post
lpr_post_snapshot_type	An unsigned integer	Http Snapshot Type 0: License Plate 1: Full Snapshot 2: All
lpr_post_http_url	String	HTTP Notification URL
lpr_post_http_user	String	HTTP User Name
lpr_post_http_password	String	HTTP Password
lpr_direction_enable	An unsigned integer	Enable Detect Direction 0: No 1: Yes
lpr_region_enable	An unsigned integer	Enable Detect Region/Country 0: No 1: Yes
lpr_roiid_enable	An unsigned integer	Enable Detect ROI ID 0: No 1: Yes
lpr_platecolor_enable	An unsigned integer	Enable Detect Plate Color 0: No 1: Yes
lpr_vehicletype_enable	An unsigned integer	Enable Detect Vehicle Type 0: No 1: Yes
lpr_vehiclecolor_enable	An unsigned integer	Enable Detect Vehicle Color 0: No 1: Yes
lpr_process_mode	An unsigned integer	LPR Process Mode 0: Always 1: Alarm Input
lpr_repeat_check_time_unit	An unsigned integer	LPR Repeat Check Time Unit 0: milliseconds 1: second(not implement) 2: minute note:set 'lpr_repeat_check_time_unit'

		first, and then set 'lpr_repeat_check_time_value'
lpr_repeat_check_time_value	An unsigned integer	LPR Repeat Check Time 0~60000ms 0~60min
lpr_confidence	An unsigned integer	Confidence Level 1~10
lpr_area_list	String	LPR1 Area List
lpr_cur_area	String	LPR1 Current selected area
lpr_effective_region	An unsigned integer	Effective_region 0: Normal 1: Advanced
lpr_effective_presets	An unsigned integer	Effective with Presets: 1~4
lpr_night_mode_enable	An unsigned integer 0~1	LPR Night Mode Enable 0: Disable 1: Enable
lpr_night_mode_effective_time	An unsigned integer 0~1	LPR Night Mode Effective Time 0: Auto Mode 1: Customize
lpr_night_mode_starthour	An unsigned integer 0~23	Start hour for LPR Night Range
lpr_night_mode_startminute	An unsigned integer 0~59	Start minute for LPR Night Range
lpr_night_mode_stophour	An unsigned integer 0~23	Stop hour for LPR Night Range
lpr_night_mode_stopminute	An unsigned integer 0~59	Stop minute for LPR Night Range
lpr_night_mode_level	An unsigned integer 1~5	1- 1/250, 2- 1/500, 3- 1/750, 4- 1/1000, 5- 1/2000
in_lpr_night_mode	An unsigned integer 0~1	1: In LPR Night Mode Effect Time currently 0: Not in LPR Night Mode Effect Time currently

Note: Please draw the screen for setting!

Add Clear Delete All

ID	Name	Edit	Delete
1	ROI_1		

Schedule Settings

Edit

Detection Settings

Detection Trigger: Always

Confidence Level:

Repeat Plate Checktime: 0 millisecond (0-60000ms)

Features Identification:
 All
 Region
 Direction
 ROI_ID

LPR Message Post Settings

Enable LPR Message Post:

Post Type: TCP

Camera LPR Port: 3344

Figure 2-15-1

Example: Get LPR configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.settings>

Return:

```
var lpr_enable = '1'; var lpr_resolution_width = '1280'; var lpr_resolution_height = '720'; var lpr_area_x = '0';
var lpr_area_y = '0'; var lpr_area_width = '1280'; var lpr_area_height = '720'; var lpr_day_night_mode_enable
= '0'; var scene = '0'; var lpr_roi_name[0] = 'ROI_1'; var lpr_roi_position[0] = '128:115:1049:554'; var
lpr_roi_name[1] = ''; var lpr_roi_position[1] = '0:0:0:0'; var lpr_roi_name[2] = ''; var lpr_roi_position[2] =
'0:0:0:0'; var lpr_roi_name[3] = ''; var lpr_roi_position[3] = '0:0:0:0'; var lpr_preset1_roi_name[0] = 'ROI_1'; var
lpr_preset1_roi_position[0] = '76:79:345:640'; var lpr_preset1_roi_name[1] = 'ROI_2'; var
lpr_preset1_roi_position[1] = '921:108:1216:576'; var lpr_preset1_roi_name[2] = ''; var
lpr_preset1_roi_position[2] = '0:0:0:0'; var lpr_preset1_roi_name[3] = ''; var lpr_preset1_roi_position[3] =
'0:0:0:0'; var lpr_preset2_roi_name[0] = ''; var lpr_preset2_roi_position[0] = '0:0:0:0'; var
lpr_preset2_roi_name[1] = ''; var lpr_preset2_roi_position[1] = '0:0:0:0'; var lpr_preset2_roi_name[2] = ''; var
lpr_preset2_roi_position[2] = '0:0:0:0'; var lpr_preset2_roi_name[3] = ''; var lpr_preset2_roi_position[3] =
'0:0:0:0'; var lpr_preset3_roi_name[0] = ''; var lpr_preset3_roi_position[0] = '0:0:0:0'; var
lpr_preset3_roi_name[1] = ''; var lpr_preset3_roi_position[1] = '0:0:0:0'; var lpr_preset3_roi_name[2] = ''; var
lpr_preset3_roi_position[2] = '0:0:0:0'; var lpr_preset3_roi_name[3] = ''; var lpr_preset3_roi_position[3] =
'0:0:0:0'; var lpr_preset4_roi_name[0] = ''; var lpr_preset4_roi_position[0] = '0:0:0:0'; var
lpr_preset4_roi_name[1] = ''; var lpr_preset4_roi_position[1] = '0:0:0:0'; var lpr_preset4_roi_name[2] = ''; var
lpr_preset4_roi_position[2] = '0:0:0:0'; var lpr_preset4_roi_name[3] = ''; var lpr_preset4_roi_position[3] =
'0:0:0:0'; var lpr_direction_enable = '1'; var lpr_region_enable = '1'; var lpr_roiid_enable = '1'; var
lpr_process_mode = '0'; var lpr_repeat_check_time_unit = '0'; var lpr_repeat_check_time_value = '0'; var
lpr_post_enable = '1'; var lpr_post_type = '0'; var lpr_post_tcp_port = '3344'; var lpr_post_http_user = ''; var
lpr_post_http_password = ''; var lpr_post_http_url = ''; var lpr_trigger_schedule[0] =
'1000024000000000000000000000'; var lpr_trigger_schedule[1] = '1000024000000000000000000000'; var
lpr_trigger_schedule[2] = '1000024000000000000000000000'; var lpr_trigger_schedule[3] =
'1000024000000000000000000000'; var lpr_trigger_schedule[4] = '1000024000000000000000000000'; var
lpr_trigger_schedule[5] = '1000024000000000000000000000'; var lpr_trigger_schedule[6] =
'1000024000000000000000000000';
```

Example: Get LPR configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.settings&format=json>

Return:

```
[LPR_SETTINGS]
lpr_enable=1
```


Enable License Plate Recognition:	<input checked="" type="checkbox"/>
License:	7325220EC7B6C181B38A
License Status:	Valid

Figure 2-15-3

Example: Get LPR license configuration

`http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.license`

Return:

```
var lpr_license = '76E13CAF3E800A3BCCA83BDF768231F15CD30C74DB44B51F7A64309DE234A5E7';
```

2.15.4 set.lpr.license

Set LPR license.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.lpr.license<parameter>=<value>
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.lpr.license&lpr_license=76E13CAF3E800A3BCA83BDF768231F15CD30C74DB44B51F7A64309DE234A5E7
```

2.15.5 add.lprlist.plate

To add black/white list.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=add.lprlist.plate<parameter>=<value>
```

Parameter	Values	Description
plate_type	An unsigned integer	Type: 1: Black Mode 2: White Mode 3: Schedule Mode
plate_license	String	Plate License(Encode Url First)
validtype	An unsigned integer	valid time 0: Always 1: Customized
rule	An unsigned integer	0-3: rule1-rule4
validtimestart	String	start time: example: 2021-04-19 00:00:00
validtimeend	String	end time
note	String	

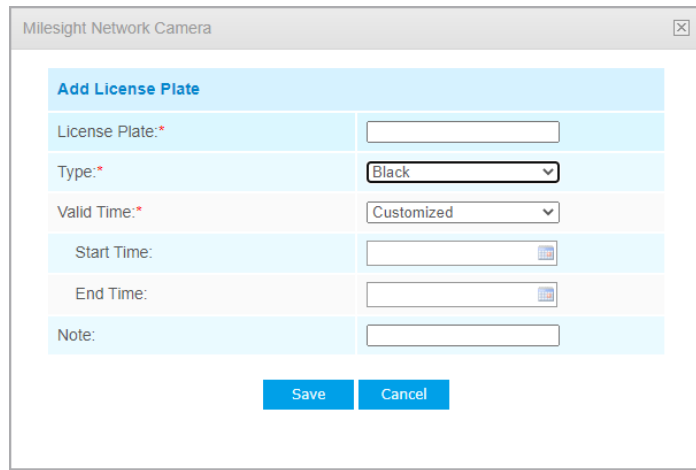


Figure 2-15-5

Example: Add black mode plate

Black,License:闽 D 1234

[http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.lprlist.plate&plate_type=1&plate_license=%E9%97%BDD%201234&validtype=1&validtimestart=2021-04-19 00:00:00&validtimeend=2021-05-01 00:00:00¬e=test](http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.lprlist.plate&plate_type=1&plate_license=%E9%97%BDD%201234&validtype=1&validtimestart=2021-04-19%2000:00:00&validtimeend=2021-05-01%2000:00:00¬e=test)

Note: you should encode URL for characters, like “闽”. <https://tool.oschina.net/encode?type=4>

Return: result include “success”, “failed”, “exist”, “upmax”

result=success

2.15.6 update.lprlist.plate

To modify black/white list.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=update.lprlist.plate&<parameter>=<value>>

Parameter	Values	Description
old_plate_license	String	Plate License(Encode Url First)
new_plate_type	An unsigned integer	Type: 1: Black Mode 2: White Mode
new_plate_license	String	Plate License(Encode Url First)
validtype	An unsigned integer	valid time 0: Always 1: Customized
rule	An unsigned integer	0-3: rule1-rule4
validtimestart	String	start time: example: 2021-04-19 00:00:00
validtimeend	String	end time
note	String	

Example: Modify LPR Plate

[http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.lprlist.plate&old_plate_type=1&old_plate_license=123456&new_plate_type=2&new_plate_license=123456&validtype=1&validtimestart=2021-04-19 00:00:00&validtimeend=2021-05-01 00:00:00¬e=test](http://192.168.0.200/cgi-bin/operator/operator.cgi?action=update.lprlist.plate&old_plate_type=1&old_plate_license=123456&new_plate_type=2&new_plate_license=123456&validtype=1&validtimestart=2021-04-19%2000:00:00&validtimeend=2021-05-01%2000:00:00¬e=test)

Return:

result=success

2.15.7 get.lpr.list

To get LPR management list.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.list
```

Parameter	Values	Description
plate_type	An unsigned integer	Type: 0: All 1: Black Mode 2: White Mode
plate_license	String	Plate License
start	An unsigned integer	Search start index
end	An unsigned integer	Search end index

Example: Get lpr list number

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.list&plate_type=0&plate_license=abc
```

Return:

```
total_list_num=3
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.list&plate_type=0&start=0&end=6
```

Return:

```
total_list_num=2
```

```
lpr_list=[[{"1:DD12:0:0::"}, {"3:D1234:3:1:2021-04-19 00:00:00:2021-05-01 00:00:00:test"}]]
```

```
[type:plate:rule:validtype:validtimestart:validtimeend:note]
```

2.15.8 get.lpr.log

To get LPR log.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.log
```

Parameter	Values	Description
plate_type	An unsigned integer	Type: 0: All 1: Black Mode 2: White Mode 3: Visitor Mode
plate_license	String	Plate License
time_start	String	
time_end	String	
search_start	An unsigned integer	Search start index
search_end	An unsigned integer	Search end index

Example: Get LPR logs number

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.log&plate_type=0&time_start=2019-02-18 00:00:00&time_end=2019-02-25 09:29:59
```

Return:

```
total_num=5
```

Example: Get LPR logs

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.log&plate_type=0&time_start=2021-09-02
00:00:00&time_end=2021-09-07 09:29:59&search_start=0&search_end=6
```

Return:

```
{"total_num": "1", "data": [{"time": "2021-09-02
19:44:34", "plate": "0DIZ31X", "type": "3", "speed": "0", "direction": "0", "roid": "-1", "region": "", "platecolor": "7", "vehicl
ecolor": "7", "vehicletype": "2"}]}
```

type: 1: Black mode 2: White mode 3: Visitor mode

color:

enum LprColor{

LPR_COLOR_UNKNOWN = 0,

LPR_COLOR_BLACK = 1,

LPR_COLOR_BLUE = 2,

LPR_COLOR_CYAN = 3,

LPR_COLOR_GRAY = 4,

LPR_COLOR_GREEN = 5,

LPR_COLOR_RED = 6,

LPR_COLOR_WHITE = 7,

LPR_COLOR_YELLOW = 8,

LPR_COLOR_VIOLET = 9,

LPR_COLOR_ORANGE = 10

};

Vehicle Type: 0:unknown 1:car 2:motor bike 3:bus 4:truck 5:minibus

2.15.9 get.lprblack.settings

To get LPR Black List mode settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lprblack.settings
```

Parameter	Values	Description
lpr_black_rule_id	An unsigned integer	The rule index id. (fixed value 0)
lpr_black_rule_name	String, max 20	The alias of an event rule. (fixed value 'msevent')
lpr_black_enabled	Boolean	Enable the event rule 0: No 1: Yes
lpr_black_rule_actionupload_enabled	Boolean	Enable the alarm action "Upload via FTP". 0: No 1: Yes
lpr_black_rule_actionupload_type	0	Fixed value 0. (Upload via FTP)
lpr_black_rule_actionupload_ftp_<id>	An unsigned integer	FTP server id. (fixed value 0)
lpr_black_rule_actionupload_file_type	0~2	File format. 0: Record 1: Snapshot 2: All

lpr_black_rule_actionupload_ftp_snapshot_mode	An unsigned integer	FTP snapshot mode 0: No 1: Yes
lpr_black_rule_actionupload_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_black_rule_actionupload_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_black_rule_actionemail_enabled	Boolean	Enable the alarm action " Upload via SMTP ". 0: No 1: Yes
lpr_black_rule_actionemail_smtp_id	An unsigned integer	SMTP server id. (fixed value 0)
lpr_black_rule_actionemail_file_type	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
lpr_black_rule_actionemail_smtp_snapshot_mode	An unsigned integer	SMTP snapshot mode 0: No 1: Yes
lpr_black_rule_actionemail_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_black_rule_actionemail_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_black_rule_actionemail_smtp_email	String, max 80	Target email address.
lpr_black_rule_actionemail_smtp_subject	String, max 80	Email subject. (fixed value 'Notify')
lpr_black_rule_actionemail_smtp_information	String, max 80	Email message. (fixed value 'mail.')
lpr_black_rule_actionemail_smtp_upload	Boolean	Enable upload file.(fixed value 1) 0: No 1: Yes
lpr_black_rule_actionhttp_enabled	Boolean	Enable the alarm action " HTTP Notification ". 0: No 1: Yes
lpr_black_rule_actionhttp_http_message (not implemented)	String, max 80	HTTP message.
lpr_black_rule_actionrecord_enabled	Boolean	Enable the alarm action " Save Into Storage ". 0: No 1: Yes
lpr_black_rule_actionrecord_file_type	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
lpr_black_rule_actionsip_enabled	Boolean	Enable the alarm action " Alarm to SIP Phone ". 0: No 1: Yes
lpr_black_rule_actionaudio_enabled	Boolean	Enable the alarm action " Play Audio ". 0: No 1: Yes
lpr_black_rule_triggerbygpin_id	An unsigned integer	GPIN id. (fixed value 1)
lpr_black_rule_actiongpout_enabled	Boolean	Enable the alarm action " External Output ". 0: No 1: Yes

lpr_black_rule_actiongpout_id	An unsigned integer	GPOUT id. (fixed value 1)
lpr_black_rule_settingrecord_seconds	An unsigned integer	Record Video Seconds 5s,10s,15s,20s,25s,30s
lpr_black_rule_settingsnapshot	An unsigned integer	Snapshot 1~5
lpr_black_rule_settingsnapshot_interval_unit	An unsigned integer	snapshot interval unit 0: millisecond 1: second
lpr_black_rule_settingsnapshot_interval	An unsigned integer	snapshot interval millisecond: 500~60000 second: 1~60
lpr_black_rule_settingsnapshot_type	An unsigned integer	Snapshot Type 0: License Plate 1: Full Snapshot 2: All
lpr_black_rule_settingtrigger_duration	An unsigned integer	External Output Action Time Customize(1~999)s: 1~999 Constant: 9999s
lpr_black_rule_settingaudio_interval	An unsigned integer	audio interval 0:Auto,10s,30s,60s,300s,600s
lpr_black_rule_actionwhitelight_enabled	Boolean	Enable white led action 0: No 1: Yes
lpr_black_rule_settingwhiteled_flashmode	An unsigned integer	flash mode: 0:Twinkle 1:Always
lpr_black_rule_settingwhiteled_flashtime	An unsigned integer	LED flash time(Twinkle flash mode) 1~10s
lpr_black_rule_settingwhiteled_alwaystime	An unsigned integer	LED flash time(Always flash mode) 1~60s
lpr_black_rule_settingwhiteled_effectivemode	An unsigned integer	White LED effective mode 0: Always 1: Light Environment 2: Customize
lpr_black_rule_settingwhiteled_effectivevalue	An unsigned integer	Effective Light Intensity 0~100s
lpr_black_rule_settingwhiteled_starthour	An unsigned integer	start hour 0~23
lpr_black_rule_settingwhiteled_startminute	An unsigned integer	start minute 0~59
lpr_black_rule_settingwhiteled_stophour	An unsigned integer	stop hour 0~23
lpr_black_rule_settingwhiteled_stopminute	An unsigned integer	stop minute 0~59
lpr_black_trigger_schedule_[ch]	String	lpr black detection schedule such as: lpr_black_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 [ch] 0~6 means Sun~Sat.

Enable Black List Mode:

Schedule Settings

[Edit](#)

Alarm Action

Save Into Storage: File Format: Record

Upload Via FTP: File Format: Record

Upload Via SMTP: File Format: Snapshot

External Output: (Please configure the External Output Action Time.)

Alarm to SIP Phone: (Please open the SIP.)

HTTP Notification:

White LED:

Alarm Setting

Record Video Sections: 5 seconds

Snapshot Type: License Plate

Snapshot: 1

Snapshot Interval: 1 second

External Output Action Time: 30 seconds

White LED Flash Mode: Twinkle

White LED Flash Time: 3

White LED Effective Mode: Always

Figure 2-15-9

Example: Get LPR black mode settings

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lprblack.settings>

Return:

```
var lpr_black_enable = '0'; var lpr_black_rule_actionupload_enabled = '0'; var
lpr_black_rule_actionupload_file_type = '0'; var lpr_black_rule_actionupload_type = '0'; var
lpr_black_rule_actionupload_post_alarm = '10'; var lpr_black_rule_actionupload_interval = '300000000'; var
lpr_black_rule_actionemail_enabled = '0'; var lpr_black_rule_actionemail_file_type = '1'; var
lpr_black_rule_actionemail_post_alarm = '10'; var lpr_black_rule_actionemail_interval = '300000000'; var
lpr_black_rule_actionemail_smtp_email = 'user@domain.com'; var lpr_black_rule_actionemail_smtp_subject
= 'Notify'; var lpr_black_rule_actionemail_smtp_information = 'mail.'; var
lpr_black_rule_actionemail_smtp_upload = '1'; var lpr_black_rule_actionhttp_enabled = '0'; var
lpr_black_rule_actionhttp_http_post_alarm = '10'; var lpr_black_rule_actionhttp_http_interval = '1000'; var
lpr_black_rule_actionhttp_http_url = ""; var lpr_black_rule_actionhttp_http_user = ""; var
lpr_black_rule_actionhttp_http_password = ""; var lpr_black_rule_actionhttp_http_notify_interval = '0'; var
lpr_black_rule_actionhttp_http_message = ""; var lpr_black_rule_actionrecord_enabled = '0'; var
lpr_black_rule_actionrecord_file_type = '0'; var lpr_black_rule_actionngpout_enabled = '0'; var
lpr_black_rule_actionsip_enabled = '0'; var lpr_black_rule_actionaudio_enabled = '0'; var
lpr_black_rule_actionwhitelight_enabled = '0'; var lpr_black_rule_settingrecord_seconds = '5'; var
lpr_black_rule_settingprerecord_seconds = '0'; var lpr_black_rule_settingsnapshot = '1'; var
lpr_black_rule_settingsnapshot_interval = '1'; var lpr_black_rule_settingsnapshot_interval_unit = '1'; var
lpr_black_rule_settingtrigger_duration = '30'; var lpr_black_rule_settingaudio_interval = '0'; var
lpr_black_rule_settingsnapshot_type = '0'; var lpr_black_rule_settingwhiteled_flashmode = '0'; var
lpr_black_rule_settingwhiteled_flashtime = '3'; var lpr_black_rule_settingwhiteled_alwaystime = '5'; var
lpr_black_rule_settingwhiteled_effectivemode = '0'; var lpr_black_rule_settingwhiteled_effectivevalue = '70';
var lpr_black_rule_settingwhiteled_starthour = '18'; var lpr_black_rule_settingwhiteled_startminute = '0'; var
lpr_black_rule_settingwhiteled_stophour = '6'; var lpr_black_rule_settingwhiteled_stopminute = '0'; var
lpr_black_rule_settingwhiteled_group = '0'; var lpr_black_trigger_schedule[0] =
'1000024000000000000000000000000000'; var lpr_black_trigger_schedule[1] = '1000024000000000000000000000000000'; var
```

```
lpr_black_trigger_schedule[2] = '1000024000000000000000000000'; var lpr_black_trigger_schedule[3] =
'1000024000000000000000000000'; var lpr_black_trigger_schedule[4] = '1000024000000000000000000000'; var
lpr_black_trigger_schedule[5] = '1000024000000000000000000000'; var lpr_black_trigger_schedule[6] =
'1000024000000000000000000000';
```

2.15.10 set.lprblack.settings

To get LPR Black List mode settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.lprblack.settings<parameter>=<value>
```

Example: Update LPR black settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.lprblack.settings&lpr_black_enable=1&lpr_black_rule_actionwhitelight_enabled=1
```

2.15.11 get.lprwhite.settings

To get LPR white list mode settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lprwhite.settings
```

Parameter	Values	Description
lpr_white_rule_id	An unsigned integer	The rule index id. (fixed value 0)
lpr_white_rule_name	String, max 20	The alias of an event rule. (fixed value 'msevent')
lpr_white_enabled	Boolean	Enable the event rule 0: No 1: Yes
lpr_white_rule_actionupload_enabled	Boolean	Enable the alarm action "Upload via FTP". 0: No 1: Yes
lpr_white_rule_actionupload_type	0	Fixed value 0. (Upload via FTP)
lpr_white_rule_actionupload_ftp_id	An unsigned integer	FTP server id. (fixed value 0)
lpr_white_rule_actionupload_file_type	0~2	File format. 0: Record 1: Snapshot 2: All
lpr_white_rule_actionupload_ftp_snapshot_mode	An unsigned integer	FTP snapshot mode 0: No 1: Yes
lpr_white_rule_actionupload_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_white_rule_actionupload_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_white_rule_actionemail_enabled	Boolean	Enable the alarm action "Upload via SMTP". 0: No 1: Yes
lpr_white_rule_actionemail_smtp_id	An unsigned integer	SMTP server id. (fixed value 0)
lpr_white_rule_actionemail_file_type	An unsigned integer	File format. 0: Record

		1: Snapshot 2: All
lpr_white_rule_actionemail_smtp_snapshot_mode	An unsigned integer	SMTP snapshot mode 0: No 1: Yes
lpr_white_rule_actionemail_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_white_rule_actionemail_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_white_rule_actionemail_smtp_email	String, max 80	Target email address.
lpr_white_rule_actionemail_smtp_subject	String, max 80	Email subject. (fixed value 'Notify')
lpr_white_rule_actionemail_smtp_information	String, max 80	Email message. (fixed value 'mail.')
lpr_white_rule_actionemail_smtp_upload	Boolean	Enable upload file.(fixed value 1) 0: No 1: Yes
lpr_white_rule_actionhttp_enabled	Boolean	Enable the alarm action " HTTP Notification ". 0: No 1: Yes
lpr_white_rule_actionhttp_http_id	An unsigned integer	HTTP server id. (fixed value 0)
lpr_white_rule_actionhttp_http_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_white_rule_actionhttp_http_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_white_rule_actionhttp_http_url	String	HTTP Notification URL
lpr_white_rule_actionhttp_http_user	String	HTTP User Name
lpr_white_rule_actionhttp_http_password	String	HTTP Password
lpr_white_rule_actionhttp_http_notify_interval	An unsigned integer 0~900	HTTP notify interval
lpr_white_rule_actionhttp_http_message (not implemented)	String, max 80	HTTP message.
lpr_white_rule_actiontcp_enabled (not implemented)	Boolean	Enable TCP action.
lpr_white_rule_actiontcp_tcp_id (not implemented)	An unsigned integer	TCP server id.
lpr_white_rule_actiontcp_tcp_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_white_rule_actiontcp_tcp_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_white_rule_actiontcp_tcp_message (not implemented)	String, max 80	TCP message.
lpr_white_rule_actionrecord_enabled	Boolean	Enable the alarm action " Save Into Storage ". 0: No 1: Yes
lpr_white_rule_actionrecord_file_type	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
lpr_white_rule_actionsip_enabled	Boolean	Enable the alarm action " Alarm to SIP Phone ". 0: No

		1: Yes
lpr_white_rule_actionaudio_enabled	Boolean	Enable the alarm action “ Play Audio ”. 0: No 1: Yes
lpr_white_rule_actiongpoint_enabled	Boolean	Enable the alarm action “ External Output ”. 0: No 1: Yes
lpr_white_rule_actiongpoint_id	An unsigned integer	GPOINT id. (fixed value 1)
lpr_white_rule_settingrecord_seconds	An unsigned integer	Record Video Seconds 5s,10s,15s,20s,25s,30s
lpr_white_rule_settingprerecord_seconds	An unsigned integer	Pre-record 0~10s
lpr_white_rule_settingsnapshot	An unsigned integer	Snapshot 1~5
lpr_white_rule_settingsnapshot_interval_unit	An unsigned integer	snapshot interval unit 0: millisecond 1: second
lpr_white_rule_settingsnapshot_interval	An unsigned integer	snapshot interval millisecond: 500~60000 second: 1~60
lpr_white_rule_settingsnapshot_type	An unsigned integer	Snapshot Type 0: License Plate 1: Full Snapshot 2: All
lpr_white_rule_settingtrigger_duration	An unsigned integer	External Output Action Time Customize(1~999)s: 1~999 Constant: 9999s
lpr_white_rule_settingaudio_interval	An unsigned integer	audio interval 0:Auto,10s,30s,60s,300s,600s
lpr_white_rule_actionwhitelight_enabled	Boolean	Enable white led action 0: No 1: Yes
lpr_white_rule_settingwhiteled_flashmode	An unsigned integer	flash mode: 0: Twinkle 1: Always
lpr_white_rule_settingwhiteled_flashtime	An unsigned integer	LED flash time(Twinkle flash mode) 1~10s
lpr_white_rule_settingwhiteled_alwaystime	An unsigned integer	LED flash time(Always flash mode) 1~60s
lpr_white_rule_settingwhiteled_effectivemode	An unsigned integer	White LED effective mode 0: Always 1: Light Environment 2: Customize
lpr_white_rule_settingwhiteled_effectivevalue	An unsigned integer	Effective Light Intensity 0~100s
lpr_white_rule_settingwhiteled_starthour	An unsigned integer	start hour 0~23
lpr_white_rule_settingwhiteled_startminute	An unsigned integer	start minute 0~59
lpr_white_rule_settingwhiteled_stophour	An unsigned integer	stop hour 0~23
lpr_white_rule_settingwhiteled_stopminute	An unsigned integer	stop minute 0~59
lpr_white_trigger_schedule_[ch]	String	lpr white detection schedule such as: lpr_white_trigger_schedule_0: 1011010001100130014002400

lpr_visitor_rule_name	String, max 20	The alias of an event rule. (fixed value 'msevent')
lpr_visitor_enabled	Boolean	Enable the event rule 0: No 1: Yes
lpr_visitor_rule_actionupload_enabled	Boolean	Enable the alarm action " Upload via FTP ". 0: No 1: Yes
lpr_visitor_rule_actionupload_type	0	Fixed value 0. (Upload via FTP)
lpr_visitor_rule_actionupload_ftp_id	An unsigned integer	FTP server id. (fixed value 0)
lpr_visitor_rule_actionupload_file_type	0~2	File format. 0: Record 1: Snapshot 2: All
lpr_visitor_rule_actionupload_ftp_snapshot_mode	An unsigned integer	FTP snapshot mode 0: No 1: Yes
lpr_visitor_rule_actionupload_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_visitor_rule_actionupload_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_visitor_rule_actionemail_enabled	Boolean	Enable the alarm action " Upload via SMTP ". 0: No 1: Yes
lpr_visitor_rule_actionemail_smtp_id	An unsigned integer	SMTP server id. (fixed value 0)
lpr_visitor_rule_actionemail_file_type	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
lpr_visitor_rule_actionupload_smtp_snapshot_mode	An unsigned integer	SMTP snapshot mode 0: No 1: Yes
lpr_visitor_rule_actionemail_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_visitor_rule_actionemail_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_visitor_rule_actionemail_smtp_email	String, max 80	Target email address.
lpr_visitor_rule_actionemail_smtp_subject	String, max 80	Email subject. (fixed value 'Notify')
lpr_visitor_rule_actionemail_smtp_information	String, max 80	Email message. (fixed value 'mail.')
lpr_visitor_rule_actionemail_smtp_upload	Boolean	Enable upload file.(fixed value 1) 0: No 1: Yes
lpr_visitor_rule_actionhttp_enabled	Boolean	Enable the alarm action " HTTP Notification ". 0: No 1: Yes
lpr_visitor_rule_actionhttp_http_id	An unsigned integer	HTTP server id. (fixed value 0)
lpr_visitor_rule_actionhttp_http_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_visitor_rule_actionhttp_http_interval (not implemented)	An unsigned integer	1.1 seconds = 1100.

implemented)	integer 1~300000	
lpr_visitor_rule_actionhttp_http_url	String	HTTP Notification URL
lpr_visitor_rule_actionhttp_http_user	String	HTTP User Name
lpr_visitor_rule_actionhttp_http_password	String	HTTP Password
lpr_visitor_rule_actionhttp_http_notify_interval	An unsigned integer 0~900	HTTP notify interval
lpr_visitor_rule_actionhttp_http_message (not implemented)	String, max 80	HTTP message.
lpr_visitor_rule_actiontcp_enabled (not implemented)	Boolean	Enable TCP action.
lpr_visitor_rule_actiontcp_tcp_id (not implemented)	An unsigned integer	TCP server id.
lpr_visitor_rule_actiontcp_tcp_post_alarm (not implemented)	An unsigned integer 1~200	When trigger is not by 'Schedule'.
lpr_visitor_rule_actiontcp_tcp_interval (not implemented)	An unsigned integer 1~300000	1.1 seconds = 1100.
lpr_visitor_rule_actiontcp_tcp_message (not implemented)	String, max 80	TCP message.
lpr_visitor_rule_actionrecord_enabled	Boolean	Enable record to SD. 0: No 1: Yes
lpr_visitor_rule_actionrecord_file_type	An unsigned integer	File format. 0: Record 1: Snapshot 2: All
lpr_visitor_rule_actionsip_enabled	Boolean	Enable the alarm action " Alarm to SIP Phone ". 0: No 1: Yes
lpr_visitor_rule_actionaudio_enabled	Boolean	Enable the alarm action " Play Audio ". 0: No 1: Yes
lpr_visitor_rule_actiongpout_enabled	Boolean	Enable the alarm action " External Output ". 0: No 1: Yes
lpr_visitor_rule_actiongpout_id	An unsigned integer	GPOUT id. (fixed value 1)
lpr_visitor_rule_settingrecord_seconds	An unsigned integer	Record Video Seconds 5s,10s,15s,20s,25s,30s
lpr_visitor_rule_settingprerecord_seconds	An unsigned integer	Pre-record 0~10s
lpr_visitor_rule_settingsnapshot	An unsigned integer	Snapshot 1~5
lpr_visitor_rule_settingsnapshot_interval_unit	An unsigned integer	snapshot interval unit 0: millisecond 1: second
lpr_visitor_rule_settingsnapshot_interval	An unsigned integer	snapshot interval millisecond: 500~60000 second: 1~60
lpr_visitor_rule_settingsnapshot_type	An unsigned integer	Snapshot Type 0: License Plate 1: Full Snapshot 2: All
lpr_visitor_rule_settingtrigger_duration	An unsigned	External Output Action Time

	integer	Customize(1~999)s: 1~999 Constant: 9999s
lpr_visitor_rule_settingaudio_interval	An unsigned integer	audio interval 0:Auto,10s,30s,60s,300s,600s
lpr_visitor_rule_actionwhitelight_enabled	Boolean	Enable white led action 0: No 1: Yes
lpr_visitor_rule_settingwhiteled_flashmode	An unsigned integer	flash mode: 0: Twinkle 1: Always
lpr_visitor_rule_settingwhiteled_flashtime	An unsigned integer	LED flash time(Twinkle flash mode) 1~10s
lpr_visitor_rule_settingwhiteled_alwaystime	An unsigned integer	LED flash time(Always flash mode) 1~60s
lpr_visitor_rule_settingwhiteled_effectivemode	An unsigned integer	White LED effective mode 0: Always 1: Light Environment 2: Customize
lpr_visitor_rule_settingwhiteled_effectivevalue	An unsigned integer	Effective Light Intensity 0~100s
lpr_visitor_rule_settingwhiteled_starthour	An unsigned integer	start hour 0~23
lpr_visitor_rule_settingwhiteled_startminute	An unsigned integer	start minute 0~59
lpr_visitor_rule_settingwhiteled_stophour	An unsigned integer	stop hour 0~23
lpr_visitor_rule_settingwhiteled_stopminute	An unsigned integer	stop minute 0~59
lpr_visitor_trigger_schedule_[ch]	String	lpr visitor detection schedule such as: lpr_visitor_trigger_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400 : start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00

Example: Get Lpr visitor mode settings
<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lprvisitor.settings>

Return:

```
var lpr_visitor_enable = '0'; var lpr_visitor_rule_actionupload_enabled = '0'; var
lpr_visitor_rule_actionupload_file_type = '0'; var lpr_visitor_rule_actionupload_type = '0'; var
lpr_visitor_rule_actionupload_post_alarm = '10'; var lpr_visitor_rule_actionupload_interval = '300000000'; var
lpr_visitor_rule_actionemail_enabled = '0'; var lpr_visitor_rule_actionemail_file_type = '1'; var
lpr_visitor_rule_actionemail_post_alarm = '10'; var lpr_visitor_rule_actionemail_interval = '300000000'; var
lpr_visitor_rule_actionemail_smtp_email = 'user@domain.com'; var
lpr_visitor_rule_actionemail_smtp_subject = 'Notify'; var lpr_visitor_rule_actionemail_smtp_information =
'mail.'; var lpr_visitor_rule_actionemail_smtp_upload = '1'; var lpr_visitor_rule_actionhttp_enabled = '0'; var
lpr_visitor_rule_actionhttp_http_post_alarm = '10'; var lpr_visitor_rule_actionhttp_http_interval = '1000'; var
lpr_visitor_rule_actionhttp_http_url = ""; var lpr_visitor_rule_actionhttp_http_user = ""; var
lpr_visitor_rule_actionhttp_http_password = ""; var lpr_visitor_rule_actionhttp_http_notify_interval = '0'; var
lpr_visitor_rule_actionhttp_http_message = ""; var lpr_visitor_rule_actionrecord_enabled = '0'; var
lpr_visitor_rule_actionrecord_file_type = '0'; var lpr_visitor_rule_actiongpout_enabled = '0'; var
lpr_visitor_rule_actionsip_enabled = '0'; var lpr_visitor_rule_actionaudio_enabled = '0'; var
lpr_visitor_rule_actionwhitelight_enabled = '0'; var lpr_visitor_rule_settingrecord_seconds = '5'; var
lpr_visitor_rule_settingprerecord_seconds = '0'; var lpr_visitor_rule_settingsnapshot = '1'; var
lpr_visitor_rule_settingsnapshot_interval = '1'; var lpr_visitor_rule_settingsnapshot_interval_unit = '1'; var
lpr_visitor_rule_settingtrigger_duration = '30'; var lpr_visitor_rule_settingaudio_interval = '0'; var
lpr_visitor_rule_settingsnapshot_type = '0'; var lpr_visitor_rule_settingwhiteled_flashmode = '0'; var
lpr_visitor_rule_settingwhiteled_flashtime = '3'; var lpr_visitor_rule_settingwhiteled_alwaystime = '5'; var
```

```
lpr_visitor_rule_settingwhiteled_effectivemode = '0'; var lpr_visitor_rule_settingwhiteled_effectivevalue = '70';
var lpr_visitor_rule_settingwhiteled_starthour = '18'; var lpr_visitor_rule_settingwhiteled_startminute = '0'; var
lpr_visitor_rule_settingwhiteled_stophour = '6'; var lpr_visitor_rule_settingwhiteled_stopminute = '0'; var
lpr_visitor_rule_settingwhiteled_group = '0'; var lpr_visitor_trigger_schedule[0] =
'10000240000000000000000000000000'; var lpr_visitor_trigger_schedule[1] = '10000240000000000000000000000000'; var
lpr_visitor_trigger_schedule[2] = '10000240000000000000000000000000'; var lpr_visitor_trigger_schedule[3] =
'10000240000000000000000000000000'; var lpr_visitor_trigger_schedule[4] = '10000240000000000000000000000000'; var
lpr_visitor_trigger_schedule[5] = '10000240000000000000000000000000'; var lpr_visitor_trigger_schedule[6] =
'10000240000000000000000000000000';
```

2.15.14 set.lprvisitor.settings

To set LPR white list settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.lprwhite.settings&<parameter>=<value>
```

Example: Update LPR white settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.lprvisitor.settings&lpr_visitor_enable=1&lpr_visit
or_rule_actionwhitelight_enabled=1
```

2.15.15 lprlistcsv

To download LPR black/white list.

Usage:

```
http://<IP>/dataloader.cgi?dw=lprlistcsv&<parameter>=<value>
```

Parameter	Values	Description
type	An unsigned integer	Type: 0: All 1: Black Mode 2: White Mode
plate	String	Plate License(Encode Url First)

Example:

```
http://192.168.0.200/dataloader.cgi?dw=lprlistcsv&type=0
```

2.15.16 lprlogcsv

To download LPR logs.

Usage:

```
http://<IP>/dataloader.cgi?dw=lprlogcsv&<parameter>=<value>
```

Parameter	Values	Description
type	An unsigned integer	Type: 0: All 1: Black Mode 2: White Mode 3: Visitor Mode
plate	String	Plate License(Encode Url First)
time_start	String	
time_end	String	

Example:

http://192.168.0.200/dataloader.cgi?dw=lprlogcsv&type=0&time_start=2019-02-20-23:00:00&time_end=2019-02-25-10:00:00

2.15.17 get.lprlist.uploadstatus

To get black/white list's upload status and upload list.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.lprvisitor.uploadstatus>

Example: Upload

```
POST /dataloader.cgi?up=lprlist HTTP/1.1
Accept: text/html, application/xhtml+xml, image/jxr, */*
Referer: http://192.168.2.138/lpr_list.html
Accept-Language: en-US,en;q=0.8,zh-Hans-CN;q=0.5,zh-Hans;q=0.3
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko
Content-Type: multipart/form-data; boundary=-----7e3951917913c0
Accept-Encoding: gzip, deflate
Host: 192.168.2.138
Content-Length: 293
Connection: Keep-Alive
Cache-Control: no-cache
Cookie: myYSpasword=b49f87a9fed286ef; pagename=b59cc4c4a18fc0adf784c2f6a1; myYSusername=b888dbf2a3; IsRememberMe=e8; menutype=e8; language=9c82d1f7a495db; password=b49f87a9fed286ef; loginname=b888dbf2a3; MenuLPR1=b59cc4c4a18fc0adf784c2f6a1; msenableface=e9
Authorization: Digest username="admin",realm="IPNC",nonce="9ee5946ae1b17af3076fafa8bc8cd1ce",uri="/dataloader.cgi?up=lprlist",cnonce="9a91710e4b60ae8e927767e425cf2731",nc=0000156a,response="caaa1820fe774bebe4440833a81d188f",qop="auth"

-----7e3951917913c0
Content-Disposition: form-data; name="file"; filename="list_20190225103100.csv"
Content-Type: application/vnd.ms-excel

Type,Plate
White,..D 1234
Black,abcdf
Black,abcde
Black,abc74
White,123456

-----7e3951917913c0--
```

Parameter	Values	Description
lpr_upload_status	An unsigned integer	Type: 0: default 1: success 2: processing 3: plate repeat 4: Beyond boundaries 5: rule error

Example:

<http://192.168.2.138:80/cgi-bin/admin/admin.cgi?action=get.lprlist.uploadstatus&format=inf>

If uploadstatus is 3(plate repeat),you can force to cover these plats by set.lpr.uploadcover,for example:
<http://192.168.2.138:80/cgi-bin/admin/admin.cgi?action=set.lpr.uploadcover&cover=1>

2.15.18 get.lpr.lastdata

To get LPR last data.

Usage:

[http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.lastdata\[&type=1\]](http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.lastdata[&type=1])

Parameter	Values	Description
-----------	--------	-------------

type	An unsigned integer	0:Default(10 LPR data) 1:Latest one
time[num]	String	[num] is 0-9.
plate[num]	String	License Plate
path[num]	String	snapshot path
region[num]	String	region/country
direction[num]	An unsigned integer	0: Unknown 1: Approach 2: Away
roi_id[num]	An unsigned integer	1~4
plate_left[num]	An unsigned integer	plate snapshot left
plate_top[num]	An unsigned integer	plate snapshot top
plate_right[num]	An unsigned integer	plate snapshot right
plate_bottom[num]	An unsigned integer	plate snapshot bottom

ettings List Management Black List Mode White List Mode Visitor Mode [Logs](#)



Figure 2-15-18

Example: get latest one data

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.lastdata&type=1

Return:

```
var time[0] = '2019-07-30 01:13:07'; var plate[0] = '1234590'; var path[0] = '/LPR/2019073009130700.jpg'; var region[0] = 'ISR'; var direction[0] = '0'; var roi_id[0] = '1';
```

Example: get 10 data

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.lastdata

Return:

```
var time[0] = '2019-07-30 01:13:06'; var plate[0] = '30001'; var path[0] = '/LPR/2019073009130602.jpg'; var region[0] = 'LUX'; var direction[0] = '0'; var roi_id[0] = '1'; var time[1] = '2019-07-30 01:13:06'; var plate[1] = 'MMG418'; var path[1] = '/LPR/2019073009130603.jpg'; var region[1] = 'FIN'; var direction[1] = '0'; var roi_id[1] = '1'; var time[2] = '2019-07-30 01:13:06'; var plate[2] = 'C30008'; var path[2] = '/LPR/2019073009130604.jpg'; var region[2] = 'LVA'; var direction[2] = '0'; var roi_id[2] = '1'; var time[3] = '2019-07-30 01:13:06'; var plate[3] = 'K9265AK'; var path[3] = '/LPR/2019073009130605.jpg'; var region[3] = 'BGR'; var direction[3] = '0'; var roi_id[3] = '1'; var time[4] = '2019-07-30 01:13:06'; var plate[4] = '30005AK'; var path[4] = '/LPR/2019073009130606.jpg'; var region[4] = 'LUX'; var direction[4] = '0'; var roi_id[4] = '1'; var time[5] = '2019-07-30 01:13:06'; var plate[5] = '2008ZG'; var path[5] = '/LPR/2019073009130607.jpg'; var region[5] = 'KGZ'; var direction[5] = '0'; var roi_id[5] = '1'; var time[6] = '2019-07-30 01:13:06'; var plate[6] = 'IAI08G'; var path[6] = '/LPR/2019073009130608.jpg'; var region[6] = 'FIN'; var direction[6] = '0'; var roi_id[6] = '1'; var time[7] = '2019-07-30 01:13:06'; var plate[7] = '30008G'; var path[7] = '/LPR/2019073009130609.jpg'; var region[7] = 'LUX'; var direction[7] = '0'; var roi_id[7] = '1'; var time[8] = '2019-07-30 01:13:06'; var plate[8] = 'K9265AK'; var path[8] = '/LPR/2019073009130710.jpg'; var region[8] = 'BGR'; var direction[8] = '0'; var roi_id[8] = '1'; var time[9] = '2019-07-30 01:13:07'; var plate[9] = '1234590'; var path[9] = '/LPR/2019073009130700.jpg'; var region[9] = 'ISR'; var direction[9] = '0'; var roi_id[9] = '1';
```


2.15.19 del.lprlist.plate

To delete lpr list management's license plate.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=del.lprlist.plate<parameter>=<value>
```

Parameter	Values	Description
plate_type	An unsigned integer	Type: 1: Black Mode 2: White Mode
plate_license	String	Plate License(Encode Url First)

Example: Delete Black List "123456"

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.lprlist.plate&del_plate_type=1&del_plate_license=123456
```

Example: Delete All Black List

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.lprlist.plate&del_plate_type=1
```

2.15.20 get.lpr.wildcards

To get License Plate Serial Format.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.wildcards
```

Parameter	Values	Description
enable[index]	An unsigned integer	0:Disabled 1:Enable <i>[index] is 0~8.</i>
character_count[index]	An unsigned integer	License Plate Character Count
format[index]	String	License Plate Serial Format
filter	An unsigned integer	Filter out results with incorrect character count 0: No 1: Yes

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.wildcards
```

Return:

```
var filter = '1'; var enable[0] = '1'; var character_count[0] = '1'; var format[0] = '*'; var enable[1] = '1'; var character_count[1] = '2'; var format[1] = '***'; var enable[2] = '1'; var character_count[2] = '3'; var format[2] = '***'; var enable[3] = '1'; var character_count[3] = '4'; var format[3] = '**AA'; var enable[4] = '1'; var character_count[4] = '5'; var format[4] = '*****'; var enable[5] = '1'; var character_count[5] = '6'; var format[5] = '*****'; var enable[6] = '1'; var character_count[6] = '7'; var format[6] = '*****'; var enable[7] = '1'; var character_count[7] = '8'; var format[7] = 'AA****11';
```

Example:

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.wildcard&format=inf
```

Return:

```
[LPR WILDCARD]
filter=1
enable_0=1
character_count_0=1
format_0=*
enable_1=1
character_count_1=2
```

```

format_1=**
enable_2=1
character_count_2=3
format_2=***
enable_3=1
character_count_3=4
format_3=**AA
enable_4=1
character_count_4=5
format_4=*****
enable_5=1
character_count_5=6
format_5=*****
enable_6=1
character_count_6=7
format_6=*****
enable_7=1
character_count_7=8
format_7=AA****11

```

2.15.21 set.lpr.wildcards

To set License Plate Serial Format.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.lpr.wildcards<parameter>=<value>
```

Example:

```
http://192.168.2.138:80/cgi-bin/admin/admin.cgi?action=set.lpr.wildcards&enable_0=1&format_0=*&enable_1=1&format_1=**&enable_2=1&format_2=***&enable_3=1&format_3=****&enable_4=1&format_4=*****&enable_5=1&format_5=*****&enable_6=1&format_6=*****&enable_7=1&format_7=*****&filter=0
```

2.15.22 get.lpr.advanced

To get LPR advanced settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.lpr.advanced
```

Parameter	Values	Description
lpr_snap_separator	An unsigned integer	LPR Snapshot Separator 0: - 1: _ 2: Space
lpr_snap_sort	String	Item of LPR Snapshot File Name 0: Time 1: License Plate 2: Plate Type 3: Vehicle Speed 4: Direction 5: Detection Region 6: Position 7: Device Name 8: Device ID a: Plate Color b: Vehicle Type c: Vehicle Color such as 12 means: License Plate + Plate Type

lpr_snap_position	String	LPR Snapshot Position
lpr_snap_device_id	String	LPR Snapshot Device ID
lpr_osd_sort	String	Item of LPR Snapshot OSD 0: Time 1: License Plate 2: Plate Type 3: Vehicle Speed 4: Direction 5: Detection Region 6: Position 7: Device Name 8: Device ID 9: Line Break a: Plate Color b: Vehicle Type c: Vehicle Color such as 12 means: License Plate + Plate Type
lpr_osd_info_position	String	OSD Information:Position
lpr_osd_device_id	String	OSD Information:Device ID
lpr_osd_font_size	An unsigned integer	1: small 2: medium 3: large
lpr_osd_bkg_enable	An unsigned integer	Background Color 0: disable 1: enable
lpr_osd_position	An unsigned integer	OSD Position 0: Top 1: Bottom 2: Top out of picture 3: Bottom out of picture
lpr_osd_space[index]	An unsigned integer (0~9)	LPR Snapshot OSD Space index: 0: Time 1: License Plate 2: Plate Type 3: Vehicle Speed 4: Direction 5: Detection Region 6: Position 7: Device Name 8: Device ID 9: Line Break(useless) a: Plate Color b: Vehicle Type c: Vehicle Color
lpr_osd_font_color	String	Font Color red:green:black such as: 255:255:255
lpr_osd_bkg_color	String	Background Color red:green:black such as: 255:255:255

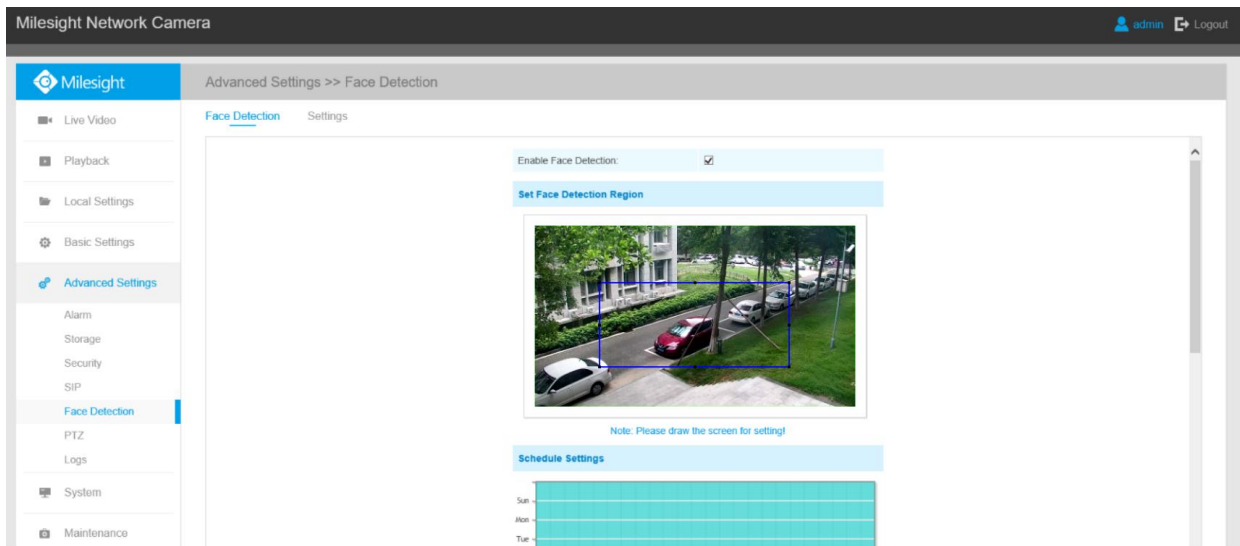
Example: Get LPR advanced settings
<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.lpr.advanced>

Return:

```
var lpr_snap_separator = '1'; var lpr_snap_sort = '012345678'; var lpr_snap_position = 'Position'; var
lpr_snap_device_id = 'Device ID'; var lpr_osd_sort = '0123459678'; var lpr_osd_info_position = 'Position'; var
lpr_osd_device_id = 'Device ID'; var lpr_osd_font_size = '2'; var lpr_osd_font_color = '255:255:255'; var
lpr_osd_bkg_enable = '0'; var lpr_osd_bkg_color = '0:0:0'; var lpr_osd_position = '0'; var lpr_osd_space[0] =
'1'; var lpr_osd_space[1] = '1'; var lpr_osd_space[2] = '1'; var lpr_osd_space[3] = '1'; var lpr_osd_space[4] =
```


face_min_pixel	An unsigned integer	minimun detection size 30~800
capture_mode	An unsigned integer	Capture Mode 0: Auto Mode 1: Quality Priority 2: Timeliness Priority 3: Customize
snapshot_interval	An unsigned integer	Snapshot Interval include: 80ms, 200ms, 500ms, 1000ms, 2000ms, 4000ms
pose_roll	An unsigned integer	Oblique Face Angle Limit 0~180
pose_pitch	An unsigned integer	Pitching Face Angle Limit 0~180
pose_yaw	An unsigned integer	Side Face Angle Limit 0~180
blurlimit	An unsigned integer	Blur Limit 0~10
snapshot_type	An unsigned integer	Snapshot Tpye 0: Face Only 1: Upper Body 2: Whole Body
snapshot_background	Boolean	Snapshot Background 0: No 1: Yes
rect_left	An unsigned integer	Face Detection Region's left coordinate
rect_top	An unsigned integer	Face Detection Region's top coordinate
rect_right	An unsigned integer	Face Detection Region's right coordinate
rect_bottom	An unsigned integer	Face Detection Region's bottom coordinate
face_rule_actionupload_enabled	Boolean	Enable upload action.(FTP) 0: No 1: Yes
face_rule_actionupload_file_type	0~2	0: For avi 1: For jpg 2: For avi & jpg
face_rule_actionnas_enabled	Boolean	Enable record to NAS 0: No 1: Yes
face_rule_actionnas_file_type	0~2	0: For avi 1: For jpg 2: For avi & jpg
face_rule_actionemail_enabled	Boolean	Enable email action. 0: No 1: Yes
face_rule_actionemail_file_type	An unsigned integer	Fixed value 1(JPG)
face_rule_actionhttp_enabled	Boolean	Enable HTTP action. 0: No 1: Yes
face_rule_actionhttp_http_url	String	HTTP Notification URL
face_rule_actionhttp_http_user	String	HTTP User Name
face_rule_actionhttp_http_password	String	HTTP Password
face_rule_actionhttp_http_notify_interval	An unsigned integer 0~900	HTTP notify interval
face_rule_settingrecord_seconds	An unsigned integer	Record Video Seconds 5s,10s,15s,20s,25s,30s

face_rule_settingprerecord_seconds	An unsigned integer	Pre-record 0~10s
face_rule_settingsnapshot	An unsigned integer	Snapshot 1~5
face_post_enable	Boolean	Enable Face Detection Message Post 0: No 1: Yes
face_post_type	An unsigned integer	0: TCP
capture_quality	An unsigned character	Capture Quality 1~100
face_shield_region_<num>	String	Face Shield Region Position num:0-3 such as: 0:0:1280:720 (left:top:right:bottom)
face_shield_region_<num>_enable	An unsigned integer	Enable Face Shield Region num:0-3 0: No 1: Yes
face_attribute_enable	Integer	Enable Attribute Recognition 0: No 1: Yes
face_attribute_type	Integer	Face Attribute 0~31 Age: 1 (1 << 0) Gender: 2 (1 << 1) Glasses: 4 (1 << 2) Glasses: 8 (1 << 3) Cap: 16 (1 << 4)
face_mosaic_enable	Integer	Enable Attribute Mosaic 0: No 1: Yes



Face Capture Configuration	
Capture Mode:	Quality Priority
Snapshot Type:	Face Only <input checked="" type="checkbox"/> Background
Snapshot:	1
Record Video Sections:	5 seconds
Pre-record:	0 second
Save Into NAS:	<input type="checkbox"/> File Format: AVI (Please mount NAS.)
Upload Via FTP:	<input type="checkbox"/> File Format: JPG
Upload Via SMTP:	<input type="checkbox"/> File Format: JPG
HTTP Notification:	<input type="checkbox"/>

Milesight

- Live Video
- Playback
- Local Settings
- Basic Settings
- Advanced Settings
- Event**
 - Basic Event
 - VCA Event
 - People Counting
 - Face Detection**
- System
- Maintenance

Event >> Face Detection

General Face Capture


Enable Face Detection:

Min. Size:

Set Face Detection Region

Detection Region: Edit

Shield Region: Edit



Note: Please draw the screen for setting!

Schedule Settings

(AI Series)

Milesight

- Live Video
- Playback
- Local Settings
- Basic Settings
- Advanced Settings
- Event**
 - Basic Event
 - VCA Event
 - People Counting
 - Face Detection**
- System
- Maintenance

Event >> Face Detection

General **Face Capture**

Face Capture Configuration

Capture Mode: Quality Priority

Capture Quality:

Snapshot Type: Face Only Background

Snapshot: 1

Record Video Sections: 30 seconds

Save Into NAS: File Format: Snapshot

Upload Via FTP: File Format: All

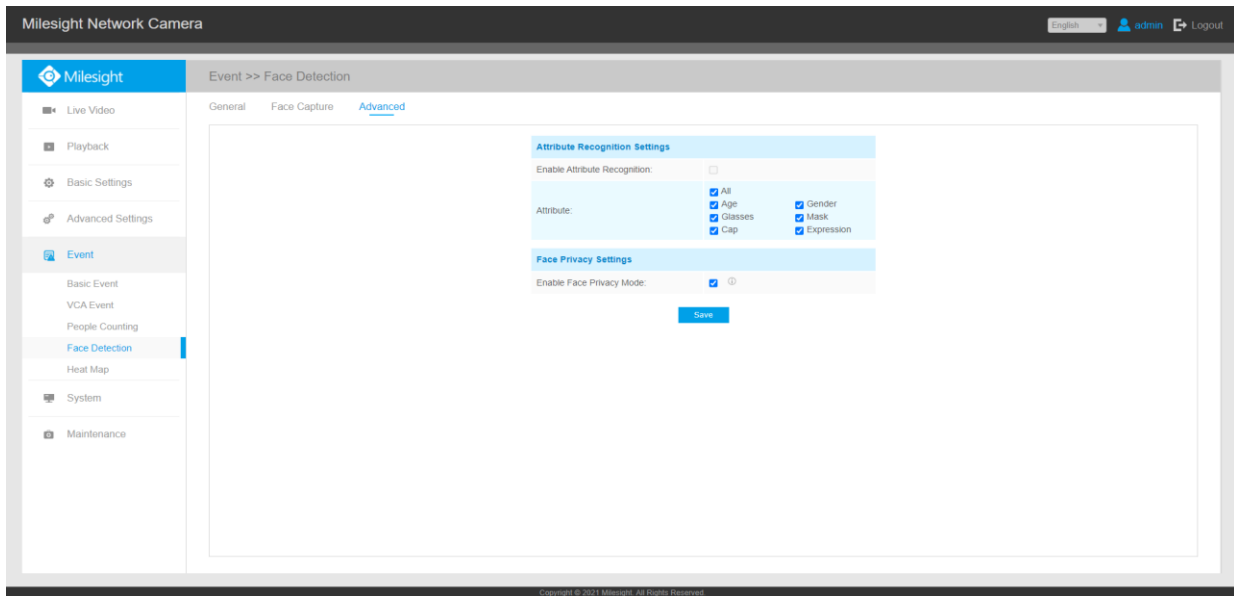
Upload Via Email: File Format: Snapshot

Face Detection Message Post Settings

Enable Face Detection Message Post:

Save

(AI Series)



(AI Series)

Example: Get Face Configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.face.configuration>

Return:

```
var rtsp_port = '554'; var media_profile_url = 'main'; var media_profile_resolution_width = '1920'; var media_profile_resolution_height = '1080'; var face_enable = '0'; var face_min_pixel = '50'; var capture_mode = '0'; var snapshot_interval = '500'; var pose_roll = '120'; var pose_pitch = '120'; var pose_yaw = '120'; var blurlimit = '5'; var snapshot_type = '0'; var snapshot_background = '0'; var rect_left = '0'; var rect_top = '0'; var rect_right = '1920'; var rect_bottom = '1080'; var face_rule_actionupload_enabled = '0'; var face_rule_actionupload_file_type = '0'; var face_rule_actionnns_enabled = '0'; var face_rule_actionnns_file_type = '0'; var face_rule_actionemail_enabled = '0'; var face_rule_actionemail_file_type = '1'; var face_rule_actionhttp_enabled = '0'; var face_rule_actionhttp_http_url = ""; var face_rule_actionhttp_http_user = ""; var face_rule_actionhttp_http_password = ""; var face_rule_actionhttp_http_notify_interval = '0'; var face_rule_settingrecord_seconds = '5'; var face_rule_settingprerecord_seconds = '0'; var face_rule_settingsnapshot = '1'; var face_post_enable = '0'; var face_post_type = '0'; var face_post_tcp_port = '5566'; var face_mosaic_enable = '1'; var face_schedule[0] = '000000000000000000000000'; var face_schedule[1] = '000000000000000000000000'; var face_schedule[2] = '000000000000000000000000'; var face_schedule[3] = '000000000000000000000000'; var face_schedule[4] = '000000000000000000000000'; var face_schedule[5] = '000000000000000000000000'; var face_schedule[6] = '000000000000000000000000';
```

Example: Get Face Configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.face.configuration&format=inf>

Return:

```
[FACE]
rtsp_port=554
media_profile_url=main
media_profile_resolution_width=1920
media_profile_resolution_height=1080
face_enable=0
face_min_pixel=50
capture_mode=0
snapshot_interval=500
pose_roll=120
pose_pitch=120
pose_yaw=120
blurlimit=5
snapshot_type=0
snapshot_background=0
rect_left=0
rect_top=0
```

```

rect_right=1920
rect_bottom=1080
face_rule_actionupload_enabled=0
face_rule_actionupload_file_type=0
face_rule_actionnns_enabled=0
face_rule_actionnns_file_type=0
face_rule_actionemail_enabled=0
face_rule_actionemail_file_type=1
face_rule_actionhttp_enabled=0
face_rule_actionhttp_http_url=
face_rule_actionhttp_http_user=
face_rule_actionhttp_http_password=
face_rule_actionhttp_http_notify_interval=0
face_rule_settingrecord_seconds=5
face_rule_settingprerecord_seconds=0
face_rule_settingsnapshot=1
face_post_enable=0
face_post_type=0
face_mosaic_enable=0
face_post_tcp_port=5566
face_schedule_0='00000000000000000000000000000000'
face_schedule_1='00000000000000000000000000000000'
face_schedule_2='00000000000000000000000000000000'
face_schedule_3='00000000000000000000000000000000'
face_schedule_4='00000000000000000000000000000000'
face_schedule_5='00000000000000000000000000000000'
face_schedule_6='00000000000000000000000000000000'
    
```

2.16.2 set.face.configuration

To set face detection configurations.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.face.configuration&<parameter>=<value>>

Example: set face configuration

```

http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.face.configuration&face_enable=1&capture_mode=1&snapshot_background=1&face_rule_actionhttp_enabled=0&face_post_enable=1&face_post_type=0&face_post_tcp_port=1314&face_mosaic_enable=1
    
```

2.17 White LED

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
WHITE LED	get.manualwled.settings	Get White LED(Manual Lighting) configurations.
	set.manualwled.settings	Set White LED(Manual Lighting) configurations.
	get.whiteled.status	Get White LED status.
	set.whiteled.status	Set White LED status.
	get.whiteled.parameter	Get White LED parameters.
	set.whiteled.flash	Set White LED flash.

2.17.1 get.manualwled.settings

Get White LED(Manual Lighting) configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.manualwled.settings
```

Parameter	Values	Description
effective_group	An unsigned integer	0: Group 1 1: Group 2 2: All
white_led_flash_mode	An unsigned integer	White LED flash mode 0: Twinkle 1: Always
white_led_flash_time	An unsigned integer	White LED flash time 5~60s

Example: get white LED settings

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=get.manualwled.settings
```

Return:

```
var effective_group = '0'; var white_led_flash_mode = '1'; var white_led_flash_time = '15';
```

2.17.2 set.manualwled.settings

To set White LED(Manual Lighting) configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.manualwled.settings<parameter>=<value>
```

Example: set manual lighting settings

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=set.manualwled.settings&effective_group=0&white_led_flash_mode=1&white_led_flash_time=15
```

2.17.3 get.whiteled.status

To get White LED status.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.whiteled.status
```

Parameter	Values	Description
white_led_status	An unsigned integer	White LED Status 0: OFF 1: ON

Example:

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=get.whiteled.status
```

Return:

```
var white_led_status = '0';
```

2.17.4 set.whiteled.status

To set white LED status.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.whiteled.status&white_led_status=<value>
```

Example: set white led on

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=set.whiteled.status&white_led_status=1
```

Example: set white led off

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=set.whiteled.status&white_led_status=0
```

2.17.5 get.whiteled.parameter

To get Manual Lighting Settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.whiteled.parameter
```

Parameter	Values	Description
white_led_alarm	Boolean	Support White LED Alarm 0: No 1: Yes
white_led_number	An unsigned integer	White LED Number
white_led_manual	Boolean	Support White LED Manual 0: No 1: Yes

Example:

```
http://192.168.2.137:80/cgi-bin/admin/admin.cgi?action=get.whiteled.parameter
```

Return:

```
var white_led_alarm = '1'; var white_led_number = '1'; var white_led_manual = '1';
```

2.17.6 set.whiteled.flash

To set White Lighting Flash.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.whiteled.flash&<parameter>=<value>
```

Parameter	Values	Description
white_led_flash_mode	Boolean	White LED Flash Mode 0: Twinkle 1: Always
white_led_flash_time	An unsigned integer	White LED Flash Time Twinkle: 1~10 Always: 1~60

Example: set white led flash

```
http://192.168.0.200/cgi-bin/admin/admin.cgi?action=set.whiteled.flash&white_led_flash_mode=1&white_led_flash_time=5
```

2.18 Area Cropping

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
AREA CROPPING	get.croproi.enable	Get Area Cropping enable status.
	set.croproi.enable	Enable/Disable Area Cropping.
	get.croproi.settings	Get Area Cropping configurations.
	set.croproi.settings	Set Area Cropping configurations.
	get.croproi.tracking	Get Area Cropping auto tracking.
	set.croproi.tracking	Set Area Cropping auto tracking.

2.18.1 get.croproi.enable

To get Area Cropping enable status.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.croproi.enable
```

Parameter	Values	Description
croproi_enable	An unsigned integer	0: Disabled 1: Enable

Example:

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=get.croproi.enable
```

Return:

```
var croproi_enable = '1';
```

2.18.2 set.croproi.enable

To enable/disable Area Cropping.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.croproi.enable&croproi_enable=<value>
```

Example: enable Area Cropping

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=set.croproi.enable&croproi_enable=1
```

2.18.3 get.croproi.settings

To get Area Cropping configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.croproi.settings
```

Parameter	Values	Description
croproi_exist_<ch>	An unsigned integer	0: Disabled 1: Enable <ch>:1~4 means secondary stream~fifth stream
croproi_left_<ch>	An unsigned integer	Rect Left Point 0~100
croproi_top_<ch>	An unsigned integer	Rect Top Point 0~100

croproi_type_<ch>	An unsigned integer	Rect Type (Base on the stream resolution is 3840*2160) 1: 1920*1080 2: 1280*960 3: 1280*720 4: 704*576 5: 640*480 6: 352*288
-------------------	---------------------	---

Example:

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=get.croproi.settings
```

Return:

```
var croproi_exist[1] = '1'; var croproi_left[1] = '0'; var croproi_top[1] = '0'; var croproi_type[1] = '1'; var
croproi_exist[2] = '1'; var croproi_left[2] = '67'; var croproi_top[2] = '67'; var croproi_type[2] = '3'; var
croproi_exist[3] = '1'; var croproi_left[3] = '0'; var croproi_top[3] = '56'; var croproi_type[3] = '2'; var
croproi_exist[4] = '0'; var croproi_left[4] = '0'; var croproi_top[4] = '0'; var croproi_type[4] = '0';
```

Example:

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=get.croproi.settings&format=inf
```

Return:

```
[CROP_ROI_SETTINGS]
croproi_exist_1=1
croproi_left_1=0
croproi_top_1=0
croproi_type_1=1
croproi_exist_2=1
croproi_left_2=67
croproi_top_2=67
croproi_type_2=3
croproi_exist_3=1
croproi_left_3=0
croproi_top_3=56
croproi_type_3=2
croproi_exist_4=0
croproi_left_4=0
croproi_top_4=0
croproi_type_4=0
```

2.18.4 set.croproi.settings

To set Area Cropping configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.croproi.settings<parameter>=<value>
```

Note:Maximum support to 4 streams and Maximum Area Size support to 4MP

Max Size:

1. 1080P x 2
2. 1080P + 1.3M + 720P

Example: set Area Cropping configurations

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=set.croproi.settings&croproi_exist_1=1&croproi_
left_1=10&croproi_top_1=20&croproi_type_1=1&croproi_exist_2=1&croproi_left_2=30&croproi_top_2=30&cr
opro_i_type_2=1
```

2.18.5 get.croproi.tracking

To get Area Cropping auto tracking

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.croproi.tracking>

Parameter	Values	Description
enable_<ch>	An unsigned integer	0: Disabled 1: Enable <ch>:1~4 means secondary stream~fifth stream
zoom_<ch>	An unsigned integer	Tracking Zoom Ratio 1-3 : 1X - 3X
area1_schedule_<ch>	String	Area1 Schedule such as: area_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00
area2_schedule_<ch>	String	
area3_schedule_<ch>	String	
area4_schedule_<ch>	String	

Example:

<http://192.168.2.139:80/cgi-bin/operator/operator.cgi?action=get.croproi.tracking>

Return:

```
var enable[1] = '0'; var zoom[1] = '1'; var enable[2] = '0'; var zoom[2] = '3'; var enable[3] = '0'; var zoom[3] = '1';
var enable[4] = '0'; var zoom[4] = '1'; .....
```

Example:

<http://192.168.2.139:80/cgi-bin/operator/operator.cgi?action=get.croproi.tracking&format=inf>

Return:

```
[CROP_ROI_TRACKINGS]
enable_1=0
zoom_1=1
enable_2=0
zoom_2=3
enable_3=0
zoom_3=1
enable_4=0
zoom_4=1
.....
```

2.18.6 set.croproi.tracking

To set Area Cropping auto tracking

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.croproi.settings&<parameter>=<value>>

Example:

http://192.168.2.139:80/cgi-bin/operator/operator.cgi?action=set.croproi.tracking&enable_0=1&zoom_0=2&area1_schedule_0=1011010001100130014002400

2.19 ANR

Action Type	Action Name	Description
ANR	anr.activate	Activate ANR for camera.
	anr.heart.beat	Keep communication with camera.
	ANR Download	Download ANR recording.
	anr.delete	Delete ANR for camera.
	anr.get.info	Get ANR information.

2.19.1 anr.activate

To activate ANR for camera.

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=anr.activate&mac=1122334455ee&activate=1
```

2.19.2 anr.heart.beat

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=anr.heart.beat&mac=1122334455ee
```

2.19.3 ANR Download

Usage:

```
http://<IP>/dataloader.cgi?dw=sd&retype=1&usstarttime=<time>&usendtime=<time>
```

Parameter	Values	Description
retype	An unsigned integer	0: Normal 1: ANR
usstarttime	An long long	Start time : microsecond
usendtime	An long long	End time : microsecond

Example:

```
http://192.168.2.115/dataloader.cgi?dw=sd&retype=1&usstarttime=1560851027654321&usendtime=1560851032123456
```

Note: <time> = 'current date&time' minus '1970-01-01 00:00:00', then convert the result to microsecond.

2.19.4 anr.delete

To delete ANR for camera.

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=anr.delete&mac=1122334455ee
```

2.19.5 anr.get.info

To get ANR information.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=anr.get.info
```

Parameter	Values	Description
-----------	--------	-------------

anr_mac_<ch>	An unsigned integer	Mac address <ch>:index of ANR
anr_ip_<ch>	An unsigned integer	IP address
anr_status_<ch>	An unsigned integer	status of ANR

Example:

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=anr.get.info
```

Return:

```
var anr_mac_0 = '1122334455ee'; var anr_ip_0 = '192.168.2.14'; var anr_status_0 = '1';
```

Example:

```
http://192.168.2.137:80/cgi-bin/operator/operator.cgi?action=anr.get.info&format=inf
```

Return:

```
[ANR_INFO]
anr_mac_0=1122334455ee
anr_ip_0=192.168.2.14
anr_status_0=2
```

2.20 Alarm

Action Type	Action Name	Description
ALARM	get.all.alarmstatus	Get all alarm status.
	get.alarm.schedule	Get alarm schedule.
	set.alarm.schedule	Set alarm schedule.
	get.alarm.param	Get alarm parameters.
	set.alarm.param	Set alarm parameters.
	get.notify.param	Get alarm http notify parameters.
	set.notify.param	Set alarm http notify parameters.

2.20.1 get.all.alarmstatus

To get Alarm information.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.all.alarmstatus
```

Parameter	Values	Description
region_entrance_alarm_status	Boolean	status 0 : None 1 : Alarm
region_exit_alarm_status	Boolean	status 0 : None 1 : Alarm
advanced_motion_alarm_status	Boolean	status 0 : None 1 : Alarm
tamper_alarm_status	Boolean	status 0 : None

		1 : Alarm
loitering_entrance_alarm_status	Boolean	status 0 : None 1 : Alarm
linecrossing1_alarm_status	Boolean	status 0 : None 1 : Alarm
linecrossing2_alarm_status	Boolean	status 0 : None 1 : Alarm
linecrossing3_alarm_status	Boolean	status 0 : None 1 : Alarm
linecrossing4_alarm_status	Boolean	status 0 : None 1 : Alarm
counter_alarm_status	Boolean	status 0 : None 1 : Alarm
human_alarm_status	Boolean	status 0 : None 1 : Alarm
current_in_count	An unsigned integer	People Counting current in-count
current_out_count	An unsigned integer	People Counting current out-count
current_sum_count	An unsigned integer	People Counting current sum-count
current_capacity_count	An unsigned integer	People Counting current capacity-count
current_counter_alarm	An unsigned integer	0 : None 1 : In Alarm 2 : Out Alarm 4 : Capacity Alarm 8 : Sum Alarm eg : 5 → In Alarm And Capacity Alarm
object_left_alarm_status	Boolean	status 0 : None 1 : Alarm
object_remove_alarm_status	Boolean	status 0 : None 1 : Alarm
motion_alarm_status	Boolean	status 0 : None 1 : Alarm
input_alarm_0_status	Boolean	status 0 : None 1 : Alarm
input_alarm_1_status	Boolean	status 0 : None 1 : Alarm
audio_alarm_status	Boolean	status 0 : None 1 : Alarm
network_lost_alarm_status	Boolean	status 0 : None 1 : Alarm

output_alarm_0_status	Boolean	status 0 : None 1 : Alarm
output_alarm_1_status	Boolean	status 0 : None 1 : Alarm
sub_motion_alarm_status	Boolean	status 0 : None 1 : Alarm
third_motion_alarm_status	Boolean	status 0 : None 1 : Alarm
fourth_motion_alarm_status	Boolean	status 0 : None 1 : Alarm
fifth_motion_alarm_status	Boolean	status 0 : None 1 : Alarm

Example: request alarm information

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.all.alarmsstatus>

Return:

```
var region_entrance_alarm_status = '0'; var region_exit_alarm_status = '0'; var
advanced_motion_alarm_status = '0'; var tamper_alarm_status = '0'; var loitering_entrance_alarm_status =
'0'; var linecrossing1_alarm_status = '0'; var linecrossing2_alarm_status = '0'; var linecrossing3_alarm_status
= '0'; var linecrossing4_alarm_status = '0'; var counter_alarm_status = '0'; var current_counter_alarm = '0'; var
human_alarm_status = '0'; var current_in_count = '0'; var current_out_count = '0'; var current_sum_count =
'0'; var current_capacity_count = '0'; var object_left_alarm_status = '0'; var object_remove_alarm_status = '0';
var motion_alarm_status = 0; var input_alarm_0_status = 0; var input_alarm_1_status = 0; var
audio_alarm_status = 0; var network_lost_alarm_status = 0; var output_alarm_0_status = 0; var
output_alarm_1_status = 0;
```

2.20.2 get.alarm.schedule

To get Alarm Schedule information.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.alarm.schedule>

Parameter	Values	Description
alarm_schedule_index	An unsigned integer	Alarm Schedule Index 0:Record 2:Motion 3:Audio In 4:External Input 5:External Input Extra 6:Pir 7:Snapshot Settings 8:IR Rect 9:SIP Callout 10:VCA Region Entrance 11:VCA Loitering 12:VCA Advanced Motion 13:VCA Line Crossing 14:VCA Peolpe Counting 15:VCA Human Detection 16:VCA Tamper Detection 17:VCA Region Exiting 18:VCA Face

		19:LPR 20:FACE 21:VCA Line Crossing2 22:VCA Line Crossing3 23:VCA Line Crossing4 24:VCA Object Left/Removed 25:LPR Black 26:LPR White 27:LPR Vistor 28:Heatmap 29:Motion Sub 30:Motion Third 31:Motion Fourth 32:Motion Fifth 33:Tracking Sub 34:Tracking Third 35:Tracking Fourth 36:Tracking Fifth 37:External Input Third 38:External Input Fourth
alarm_schedule_<ch>	String	Alarm Schedule such as: alarm_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00

Example: get External Input information

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.alarm.schedule&alarm_schedule_index=4

Return:

```
var alarm_schedule[0] = '10102131200000000000000000'; var alarm_schedule[1] =
'10102131200000000000000000000000'; var alarm_schedule[2] = '1071018090000000000000000000'; var
alarm_schedule[3] = '10102131200000000000000000000000'; var alarm_schedule[4] =
'10000240000000000000000000000000'; var alarm_schedule[5] = '10000240000000000000000000000000'; var
alarm_schedule[6] = '10102131200000000000000000000000';
```

Example: get External Input information

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.alarm.schedule&alarm_schedule_index=4&format=info

Return:

```
[ALARM_SCHEDULE]
alarm_schedule_0='10102131200000000000000000000000'
alarm_schedule_1='10102131200000000000000000000000'
alarm_schedule_2='10710180900000000000000000000000'
alarm_schedule_3='10102131200000000000000000000000'
alarm_schedule_4='10000240000000000000000000000000'
alarm_schedule_5='10000240000000000000000000000000'
alarm_schedule_6='10102131200000000000000000000000'
```

2.20.3 set.alarm.schedule

To set alarm schedule.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.alarm.schedule&<parameter>=<value>>

Example: set External Input schedule

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.alarm.schedule&alarm_schedule_index=4&alarm_schedule_0=00000240000000000000000000000000&alarm_schedule_1=00000240000000000000000000000000&alarm_schedule_2=00000240000000000000000000000000&alarm_schedule_3=00000240000000000000000000000000&alarm_schedule_4=00000240000000000000000000000000&alarm_schedule_5=00000240000000000000000000000000&alarm_schedule_6=00000240000000000000000000000000
```

2.20.4 get.alarm.param

To get alarm parameters.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.alarm.param
```

Parameter	Values	Description
index	An unsigned integer	0 : Motion Detection 1 : Network Lost 2 : Audio Alarm 3 : External Input First 6 : IP Conflict 7 : External Input Second 9 : VCA Region Entrance 10 : VCA Region Exit 11 : VCA Loitering 12 : VCA Advanced Motion 13 : VCA Line Crossing1 14 : People Counting 15 : VCA Human Detection 16 : VCA Tamper Detection 18 : Radar 19 : Face Detection 20 : VCA Line Crossing2 21 : VCA Line Crossing3 22 : VCA Line Crossing4 23 : VCA Object Left/Remove 24 : LPR Black 25 : LPR White 26 : LPR Visitor 27 : ANR 28 : Motion Detection of Secondary Stream 29 : Motion Detection of Tertiary Stream 30 : Motion Detection of Fourth Stream 31 : Motion Detection of Fifth Stream 32 : Record Failed 33 : SD Full 34 : SD Uninitialized 35 : SD Error 36 : No SD 37 : External Input Third 38 : External Input Fourth 39 : Region People Counting 1 40 : Region People Counting 2 41 : Region People Counting 3 42 : Region People Counting 4
action_storage_enable	Boolean	Save Into Storage 0 : Disabled 1 : Enable
action_storage_type	An unsigned integer	Storage Type 0 : Record

		1 : Snapshot 2 : All
action_ftp_enable	Boolean	Upload Via FTP 0: Disabled 1: Enable
action_ftp_type	An unsigned integer	FTP Type 0 : Record 1 : Snapshot 2 : All
action_email_enable	Boolean	Upload Via Email 0: Disabled 1: Enable
action_email_type	An unsigned integer	FTP Type 1 : Snapshot
action_audio_enable	Boolean	Play Audio 0: Disabled 1: Enable
action_audio_file	An unsigned integer	Audio File 0 : 1.wav 1 : 2.wav
action_sip_enable	Boolean	Sip Enable 0: Disabled 1: Enable
action_external_output_0_enable	Boolean	First external output Enable 0: Disabled 1: Enable
action_buzzer_enable	Boolean	Buzzer Enable 0: Disabled 1: Enable
action_http_notify_enable	Boolean	HTTP Notify Enable 0: Disabled 1: Enable
action_external_output_1_enable	Boolean	Second external output Enable 0: Disabled 1: Enable
action_white_light_enable	Boolean	White led Enable 0: Disabled 1: Enable
action_ptz_motion_enable	Boolean	Ptz Motion Enable 0: Disabled 1: Enable
action_preset_enable	Boolean	Preset Enable 0: Disabled 1: Enable
action_patrol_enable	Boolean	Patrol Enable 0: Disabled 1: Enable
action_pattern_enable	Boolean	Pattern Enable 0: Disabled 1: Enable
action_preset_id	An unsigned integer	Preset Id
action_prtrol_id	An unsigned integer	Patrol Id
action_pattern_id	An unsigned integer	Pattern Id
setting_snap_stream	An unsigned integer	Snapshot Stream 0 : Primary Stream 1 : Secondary Stream 1 : Tertiary Stream 3 : Fourth Stream 4 : Fifth Stream

setting_snap_num	An unsigned integer 1~5	Snapshot Number
setting_snap_interval	An unsigned integer	Snapshot Interval 1~60s or 500~60000ms
setting_snap_unit	An unsigned integer	Snapshot interval unit 0 : millisecond 1 : second
setting_external_output_action_time	An unsigned integer	External Output Action Time -1 : Customize 10 : 10 seconds 30 : 30 seconds 60 : 1 minute 300 : 5 minutes 600 : 10 minutes 9999 : Constant
setting_audio_interval	An unsigned integer	Play audio interval 0 : Auto 10 : 10 seconds 30 : 30 seconds 60 : 1 minute 300 : 5 minutes 600 : 10 minutes
setting_record_video_section	An unsigned integer	Record Video Sections 5 : 5 seconds 10 : 10 seconds 15 : 15 seconds 20 : 20 seconds 25 : 25 seconds 30 : 30 seconds
setting_white_led_flash_time	An unsigned integer 1~10	White LED Flash Time(White LED Flash Mode is Twinkle)
setting_white_led_always_time	An unsigned integer 1~60	White LED Flash Time(White LED Flash Mode is Always)
setting_ptz_motion_recovery_time	An unsigned integer	PTZ Motion Recovery Time 3 : 3 seconds 4 : 4 seconds 5 : 5 seconds 6 : 6 seconds 7 : 7 seconds 8 : 8 seconds 9 : 9 seconds 10 : 10 seconds 60 : 1 minute 120 : 2 minutes 300 : 5 minutes
setting_white_led_flash_mode	An unsigned integer	White LED Flash Mode 0 : Twinkle 1 : Always
setting_proportional_zoom_times	An unsigned integer	Proportional Zoom Times n: n times(nX) min : 2 max depend on lens type
setting_white_led_start_time_hour	An unsigned integer 0~23	Hour of White LED Start Time
setting_white_led_start_time_minute	An unsigned integer 0~59	Minute of White LED Start Time

setting_white_led_end_time_hour	An unsigned integer 0~23	Hour of White LED End Time
setting_white_led_end_time_minute	An unsigned integer 0~59	Minute of White LED End Time
setting_white_led_effective_mode	An unsigned integer	White LED Effective Mode 0 : Always 1 : Light Environment 2 : Customize
setting_effective_light_intensity	An unsigned integer 0~100	Effective Light Intensity
setting_white_led_group	An unsigned integer	White LED Group 0 : Group1 1 : Group2 2 : All
setting_snap_type	An unsigned integer	Snapshot Type 0 : License Type 1 : Full Snapshot 2 : All
setting_email_triggered_interval	An unsigned integer	Email Triggered Interval 0 : Auto 10 : 10 seconds 20 : 20 seconds 40 : 40 seconds 60 : 60 seconds 100 : 100 seconds 300 : 5 minutes 900 : 15 minutes 1800 : 30 minutes 3600 : 1 hour 28800 : 8 hours 43200 : 12 hours 86400 : 24 hours

Example: get alarm param of Regional People Counting 1

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.alarm.param&index=39>

Return:

```
[ALARM_PARAM]
action_id=0
action_type=39
action_storage_enable=0
action_storage_type=0
action_ftp_enable=0
action_ftp_type=0
action_email_enable=0
action_email_type=0
action_audio_enable=0
action_audio_file=0
action_sip_enable=0
action_external_output_0_enable=0
action_buzzer_enable=0
action_http_notify_enable=0
action_external_output_1_enable=0
action_white_light_enable=0
action_ptz_motion_enable=0
action_preset_enable=0
action_patrol_enable=0
action_pattern_enable=0
action_preset_id=0
```



```

action_patrol_id=0
action_pattern_id=0
setting_event=39
setting_type=0
setting_snap_stream=0
setting_snap_num=1
setting_snap_interval=0
setting_snap_unit=0
setting_external_output_action_time=0
setting_audio_interval=0
setting_record_video_section=5
setting_white_led_flash_time=0
setting_white_led_always_time=0
setting_ptz_motion_recovery_time=3
setting_white_led_flash_mode=0
setting_proportional_zoom_times=0
setting_white_led_start_time_hour=0
setting_white_led_start_time_minute=0
setting_white_led_end_time_hour=0
setting_white_led_end_time_minute=0
setting_white_led_effective_mode=0
setting_effective_light_intensity=0
setting_white_led_group=0
setting_snap_type=0
setting_email_triggered_interval=0
    
```

2.20.5 set.alarm.param

To set alarm parameters.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=set.alarm.param&<parameter>=<value>>

Example: set alarm param of motion detection

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.alarm.param&index=0&action_ftp_enable=1&action_ftp_type=2&action_email_enable=1

2.20.6 get.notify.param

To get alarm http notify parameters.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.notify.param>

Parameter	Values	Description
index	An unsigned integer	0 : Motion Detection 1 : Network Lost 2 : Audio Alarm 3 : External Input First 6 : IP Conflict 7 : External Input Second 9 : VCA Region Entrance 10 : VCA Region Exit 11 : VCA Loitering 12 : VCA Advanced Motion 13 : VCA Line Crossing1 14 : People Counting 15 : VCA Human Detection 16 : VCA Tamper Detection 18 : Radar

		19 : Face Detection 20 : VCA Line Crossing2 21 : VCA Line Crossing3 22 : VCA Line Crossing4 23 : VCA Object Left/Remove 24 : LPR Black 25 : LPR White 26 : LPR Visitor 27 : ANR 28 : Motion Detection of Secondary Stream 29 : Motion Detection of Tertiary Stream 30 : Motion Detection of Fourth Stream 31 : Motion Detection of Fifth Stream 32 : Record Failed 33 : SD Full 34 : SD Uninitialized 35 : SD Error 36 : No SD 37 : External Input Third 38 : External Input Fourth 39 : Region People Counting 1 40 : Region People Counting 2 41 : Region People Counting 3 42 : Region People Counting 4
notify_enable<ch>	Boolean	Enable of url 0: Disabled 1: Enable ch : 0/1/2 means URL 1/URL 2/URL 3
notify_trigger_interval<ch>	An unsigned integer 0~900	Trigger Interval
notify_http_method<ch>	An unsigned integer	HTTP Method 0: Get 1: Post
notify_url<ch>	String	HTTP URL
notify_user_name<ch>	String	User Name
notify_password<ch>	String	Password

Example: get http notify param of Regional People Counting 1

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.alarm.param&index=39>

Return:

```
[NOTIFY_PARAM]
notify_enable0=0
notify_trigger_interval0=0
notify_http_method0=0
notify_url0=
notify_user_name0=
notify_password0=
notify_enable1=0
notify_trigger_interval1=0
notify_http_method1=0
notify_url1= notify_user_name1=
notify_password1=
notify_enable2=0
notify_trigger_interval2=0
notify_http_method2=0
notify_url2=
notify_user_name2=
notify_password2=
```

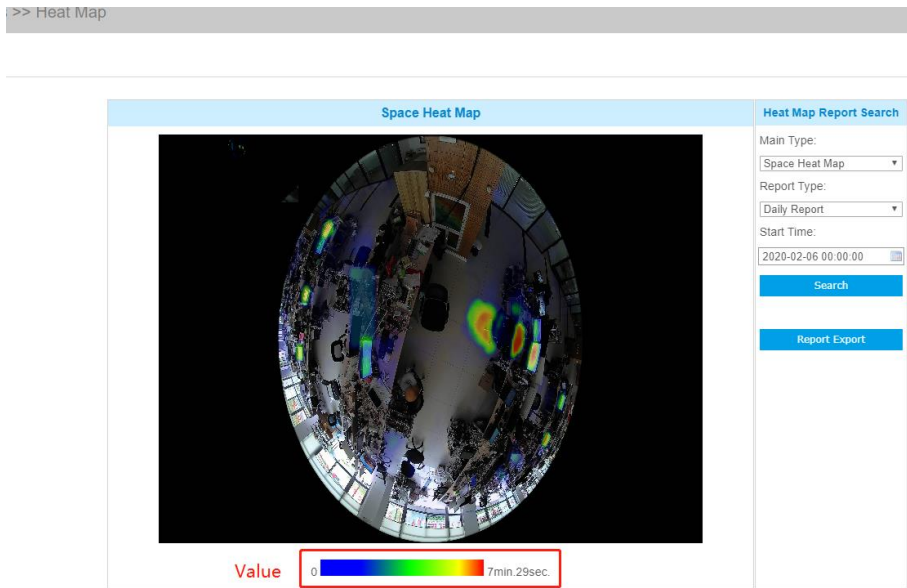



Figure 2-21-3

Return:

```
{"max":248,"min":0,"data":[248,31,178,62,4,10,1,15,0,0,0,0,0,0,0,1,82,71,194,169,8,38,0,0]}
```

max: max of heat value in map
 min: min of heat value in map
 data: heat value since start time 24 hours

Example: export Time Heat Map

```
http://192.168.0.200/dataloader.cgi?dw=heatmapcsv&sub_type=0&time_start=2020-02-06-00:00:00
```

2.22 SIP

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
SIP	get.sip.settings	Get sip settings.
	set.sip.settings	Set sip settings.
	get.sip.alarmphone	Get sip alarm phone.
	add.sip.alarmphone	Add sip alarm phone.
	del.sip.alarmphone	Delete sip alarm phone.
	get.sip.whitelist	Get sip white list.
	set.sip.whitelist	Set sip white list.
	del.sip.whitelist	Delete sip white list.

2.22.1 get.sip.settings

To get sip settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.sip.settings
```

Parameter	Values	Description
sip_enable	Boolean	Sip Enable 0: Disabled 1: Enable
sip_register_mode	Boolean	Register Mode 0: Disabled 1: Enable
sip_user_id	String	Sip User ID
sip_user_name	String	Sip User Name
sip_password	String	Sip Password
sip_server_address	String	Sip Server Address
sip_server_port	An unsigned integer 1~65535	Sip Server Port
sip_connection_protocol	An unsigned integer 0~1	Sip Connection Protocol 0: UDP 1: TCP
sip_video_stream	An unsigned integer 0~1	Sip Video Stream 0: Primary Stream 1: Secondary Stream
sip_max_duration	An unsigned integer 0~9999999	Sip Max Call Duration

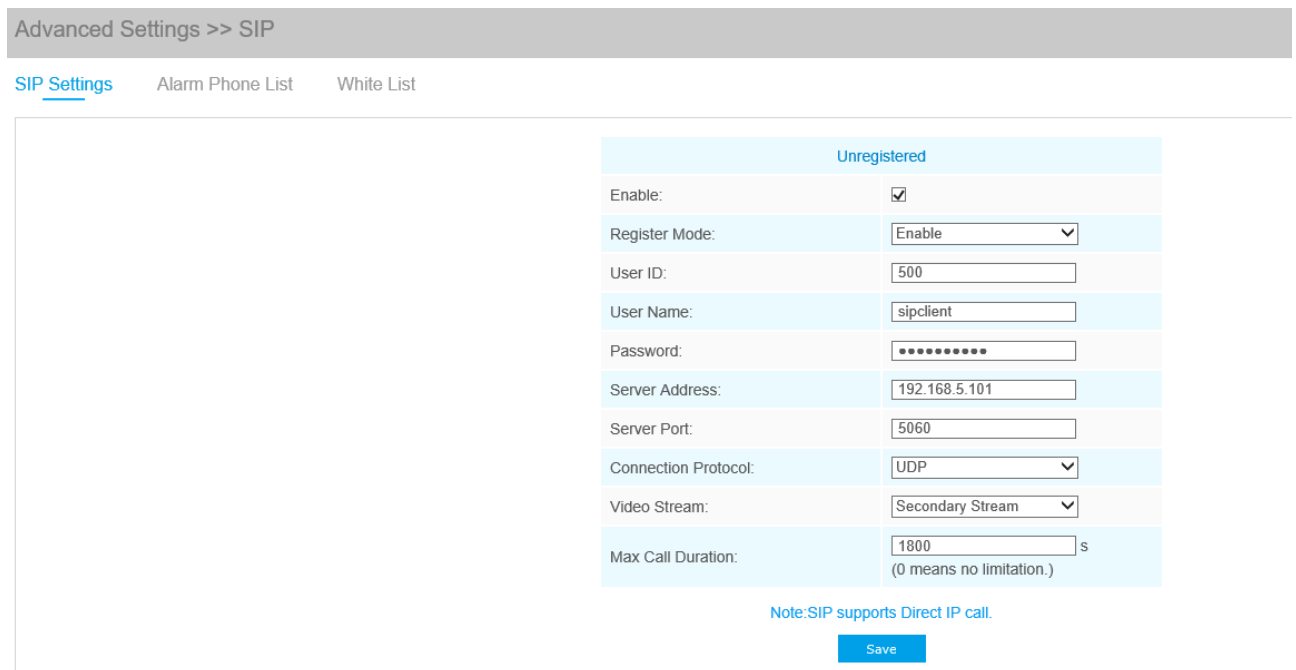


Figure 2-22-1

Example: get sip settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.sip.settings
```

Return:

```
var sip_enable = '0'; var sip_register_mode = '0'; var sip_user_id = '500'; var sip_user_name = 'sipclient'; var sip_password = 'pincode500'; var sip_server_address = '192.168.5.101'; var sip_server_port = '5060'; var sip_connection_protocol = '0'; var sip_video_stream = '1'; var sip_max_duration = '1800';
```

2.22.2 set.sip.settings

To set sip settings.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.hear.map<parameter>=<value>
```

Example: set Sip settings

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.sip.settings&sip_enable=0&sip_register_mode=0&sip_user_id=500&sip_user_name=name&sip_password=password&sip_server_address=192.168.0.200&sip_server_port=5060&sip_connection_protocol=0&sip_video_stream=1&sip_max_duration=1800
```

2.22.3 get.sip.alarmphone

To get Sip Alarm Phone List.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.sip.alarmphone
```

Parameter	Values	Description
sip_alarm_phone_index_<id>	An unsigned integer 0~4	Sip Phone index
sip_alarm_phone_type_<id>	Boolean	Phone Type 0: Phone Number 1: Direct IP Call
sip_alarm_phone_number_<id>	String	Sip Phone Number Or IP Address
sip_alarm_phone_name_<id>	String	Sip Phone Remark Name
sip_alarm_phone_duration_<id>	String	Sip Phone Duration such as: 00002400 means start time:00:00 stop time:24:00
sip_alarm_phone_port_<id>	An unsigned integer 1~65535	Sip Phone

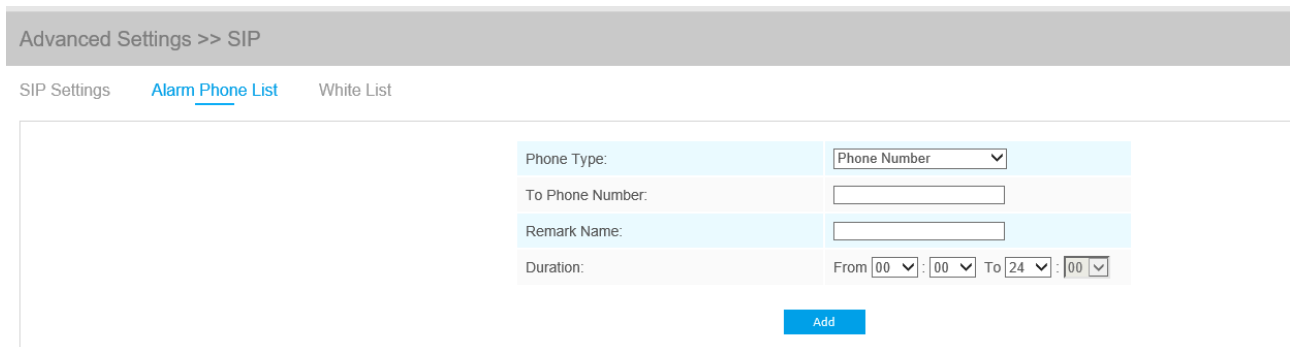


Figure 2-22-3

Example: get sip alarm phone list

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.sip.alarmphone
```

Return:

```
var sip_alarm_phone_index_0 = '0'var sip_alarm_phone_type_0 = '0'; var sip_alarm_phone_number_0 = '1';  
var sip_alarm_phone_name_0 = "; var sip_alarm_phone_duration_0 = '00002400'; var  
sip_alarm_phone_port_0 = '0'; var sip_alarm_phone_index_1 = '1'var sip_alarm_phone_type_1 = '0'; var
```



```

sip_alarm_phone_number_1 = '2'; var sip_alarm_phone_name_1 = ""; var sip_alarm_phone_duration_1 =
'00002400'; var sip_alarm_phone_port_1 = '0';

```

2.22.4 add.sip.alarmphone

To add sip alarm phone.

Usage:

```

http://<IP>/cgi-bin/operator/operator.cgi?action=add.sip.alarmphone<parameter>=<value>

```

Example: add Sip alarmphone

```

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.sip.alarmphone&sip_alarm_phone_type=0&sip
_alarm_phone_number=123&sip_alarm_phone_name=name&sip_alarm_phone_duration=00002400

```

2.22.5 del.sip.alarmphone

To delete sip alarm phone.

Usage:

```

http://<IP>/cgi-bin/operator/operator.cgi?action=del.sip.alarmphone&sip_alarm_phone_index=<value>

```

Example: delete Sip alarmphone

```

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.sip.alarmphone&sip_alarm_phone_index=1

```

2.22.6 get.sip.whitelist

To get Sip White List.

Usage:

```

http://<IP>/cgi-bin/operator/operator.cgi?action=get.sip.whitelist

```

Parameter	Values	Description
sip_white_phone_enable	Boolean	Enable White List Number Filter 0: No 1: Yes
sip_white_phone_index_<id>	An unsigned integer 0~4	Sip White Phone index
sip_white_phone_type_<id>	Boolean	Phone Type 0:Phone Number 1:Direct IP Call
sip_white_phone_number_<id>	String	Sip White Phone Number

Example: get sip white list

```

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.sip.whitelist

```

Return:

```

var sip_white_phone_enable = '0'; var sip_white_phone_index_0 = '0'var sip_white_phone_type_0 = '0'; var
sip_white_phone_number_0 = '123';

```

2.22.7 set.sip.whitelist

To set sip white list.

Usage:

```

http://<IP>/cgi-bin/operator/operator.cgi?action=set.sip.whitelist<parameter>=<value>

```

Example: enable Sip white list

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.sip.whitelist&sip_white_phone_enable=1
```

2.22.8 add.sip.whitelist

To add sip white list.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=add.sip.whitelist&<parameter>=<value>
```

Example: add Sip white list

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=add.sip.whitelist&sip_white_phone_type=0&sip_white_phone_number=123
```

2.22.9 del.sip.whitelist

To delete sip white list.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=del.sip.whitelist&sip_white_phone_index=<value>
```

Example: delete Sip white list

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=del.sip.whitelist&sip_white_phone_index=1
```

2.23 Online User

Action Type	Action Name	Description
ONLINE USER	online.user.list	Get online user list.
	online.heart.beat	Send heartbeat to IPC.

2.23.1 online.user.list

To get Online User List.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=online.user.list
```

Parameter	Values	Description
online_user_name_<id>	Boolean	User name
online_user_level_<id>	An unsigned integer 0~4	User level
online_user_ip_<id>	Boolean	User IP
online_user_time_<id>	String	User login time

Example: get sip white list

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=online.user.list
```

Return:

```
var online_user_name_0 = 'admin'; var online_user_level_0 = '0'; var online_user_ip_0 = '192.168.2.128'; var
```

online_user_time_0 = '2020-12-02 10:03:53';

No.	User Name	User Level	IP Address	User Login Time
1	admin	Administrator	192.168.7.14	2021-02-20 14:33:50
2	admin	Administrator	192.168.7.79	2021-02-20 11:13:39
3	admin	Administrator	192.168.7.110	2021-02-20 10:12:29
4	admin	Administrator	192.168.7.25	2021-02-19 17:12:02

2.23.2 online.heart.beat

Send heartbeat to IPC.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=online.heart.beat>

2.24 Traffic Detection

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
TRAFFIC DETECTION	get.radar.configuration	Get Traffic Detection configurations.
	set.radar.configuration	Set Traffic Detection configurations.
	get.radar.export	Get auto export for Radar log.
	set.radar.export	Get auto export for Radar log.
	get.radar.detectdata	Get Radar Detection data.

2.24.1 get.radar.configuration

To get traffic detection configurations.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.radar.configuration>

Parameter	Values	Description
radar_enable	BYTE	Enable to auto export 0: No 1: Yes
radar_height	Float	Installation Height 0~10
radar_angle	Float	Installation Angle

		-90~90
radar_angle_com	Float	Angle Compensation -30~30
radar_coordinate_x1	Float	Coordinate X1 -9999999~99999999
radar_coordinate_y1	Float	Coordinate Y1 0~99999999
radar_coordinate_x2	Float	Coordinate X2 -9999999~99999999
radar_coordinate_y2	Float	Coordinate Y2 0~99999999
radar_point_x1	Float	Radar P1_x 0~100
radar_point_y1	Float	Radar P1_y 5~100
radar_point_x2	Float	Radar P2_x 0~100
radar_point_y2	Float	Radar P2_y 5~100
radar_trigger_line	Integer	Radar Trigger Line 5~95
radar_trigger_distance	Float	Radar Trigger Distance 0~100
radar_lpr_region_[id]	Float	LPR Region Detection X <i>[id]:region number 1~4</i> -9999999~99999999
roi_coordinate_fill_[id]	Integer	Whether LPR Detection Area Exists <i>[id]:region number 1~4</i> 0: No 1: Exist
radar_show_speed	BYTE	Enable Show Speed OSD 0: No 1: Yes
radar_show_direction	BYTE	Enable Show Direction OSD 0: No 1: Yes
radar_show_distance	BYTE	Enable Show Distance OSD 0: No 1: Yes
radar_show_azimuth	BYTE	Enable Show Azimuth OSD 0: No 1: Yes
radar_show_counting	BYTE	Enable Show Count OSD 0: No 1: Yes
radar_font_size	BYTE	OSD Font Size 0:small 1:medium 2:large
radar_font_color	String, max 6	For Example 255:0:0
radar_auto_reset	BYTE	Enable To Auto Reset 0 : No 1 : Yes
radar_reset_weekday	BYTE	Weekday 0~7
radar_reset_time	String	Reset Time
radar_reset_hour	BYTE	Hour 0~23

radar_reset_min	BYTE	Minute 0~59
radar_reset_sec	BYTE	Second 0~59
radar_max_speed_alarm	BYTE	Enable Maximum Speed Alarm 0: No 1: Yes
radar_min_speed_alarm	BYTE	Enable Minimum Speed Alarm 0: No 1: Yes
radar_max_speed_threshold	Float	Maximum Speed 0~999
radar_min_speed_threshold	Float	Minimum Speed 0~999
radar_driving_dir_alarm	BYTE	Enable Direction Alarm
radar_driving_dir	BYTE	Direction 0: Approach 1: Away
radar_schedule_[id]	String	Radar Schedule <i>[id]:weekday</i> such as: radar_schedule_0: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00
radar_rule_actionrecord_enabled	BYTE	Enable The Alarm Action “ Save Into Storage ”. 0: No 1: Yes
radar_rule_actionrecord_file_type	BYTE	File Format. 0: Record 1: Snapshot 2: All
radar_rule_actionupload_enabled	BYTE	Enable Upload Action.(FTP) 0: No 1: Yes
radar_rule_actionupload_file_type	BYTE	File Format. 0: Record 1: Snapshot 2: All
radar_rule_actionemail_enabled	BYTE	Enable The Alarm Action “ Upload Via SMTP ”. 0: No 1: Yes
radar_rule_actionemail_file_type	BYTE	File Format. (fixed value 1) 0: Record 1: Snapshot 2: All
radar_rule_actiongpout_enabled	BYTE	Enable The Alarm Action “ External Output ”. 0: No 1: Yes
radar_rule_actiongpout_ext_enabled	BYTE	Enable Second External Output Action. 0: No 1: Yes (For the camera which support 2 alarm

		output, like speed dome)
radar_rule_actionaudio_enabled	BYTE	Enable The Alarm Action "Play Audio" 0: No 1: Yes
radar_rule_actionsip_enabled	BYTE	Enable The Alarm Action "Alarm to SIP Phone" . 0: No 1: Yes
radar_rule_actionhttp_enabled	BYTE	Enable The Alarm Action "HTTP Notification" . 0: No 1: Yes
radar_rule_actionosdblink_enabled	BYTE	Enable The Alarm Action "OSD Blink" 0: No 1: Yes
radar_rule_settingrecord_seconds	An unsigned integer	Record Video Seconds 5s,10s,15s,20s,25s,30s
radar_rule_settingsnapshot_type	Integer	Snapshot Type 0: License Plate 1: Full Snapshot 2: All
radar_rule_settingsnapshot	Integer	Snapshot 1~5
radar_rule_settingsnapshot_interval	An unsigned integer	Snapshot Interval millisecond: 500~60000 second: 1~60
radar_rule_settingsnapshot_interval_unit	BYTE	Snapshot Interval Unit 0: millisecond 1: second
radar_rule_settingemail_interval	An unsigned integer	Email Triggered Interval: 0:auto 10:10s 20:20s 40:40s 60:60s 100:100s 300:5 minutes 900:15 minutes 1800:30 minutes 3600:1 hour 28800:8 hours 43200:12 hours 86400:24 hours
radar_rule_settingtrigger_duration	An unsigned integer	External Output Action Time Customize(1~999)s: 1~999 Constant: 9999s
radar_rule_settingaudio_interval	An unsigned integer	Audio Interval 0:Auto,10s,30s,60s,300s,600s
radar_rule_settingosdblink_time	BYTE	OSD Blink Time 1~10s

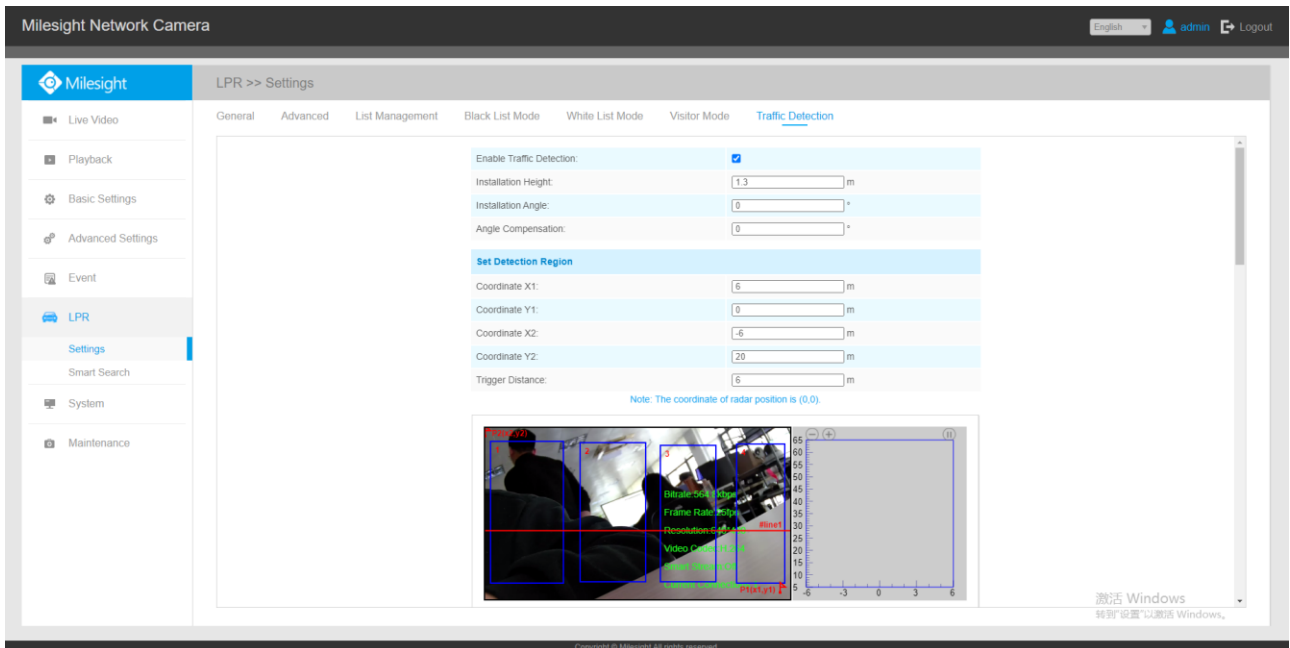


Figure 2-24-1

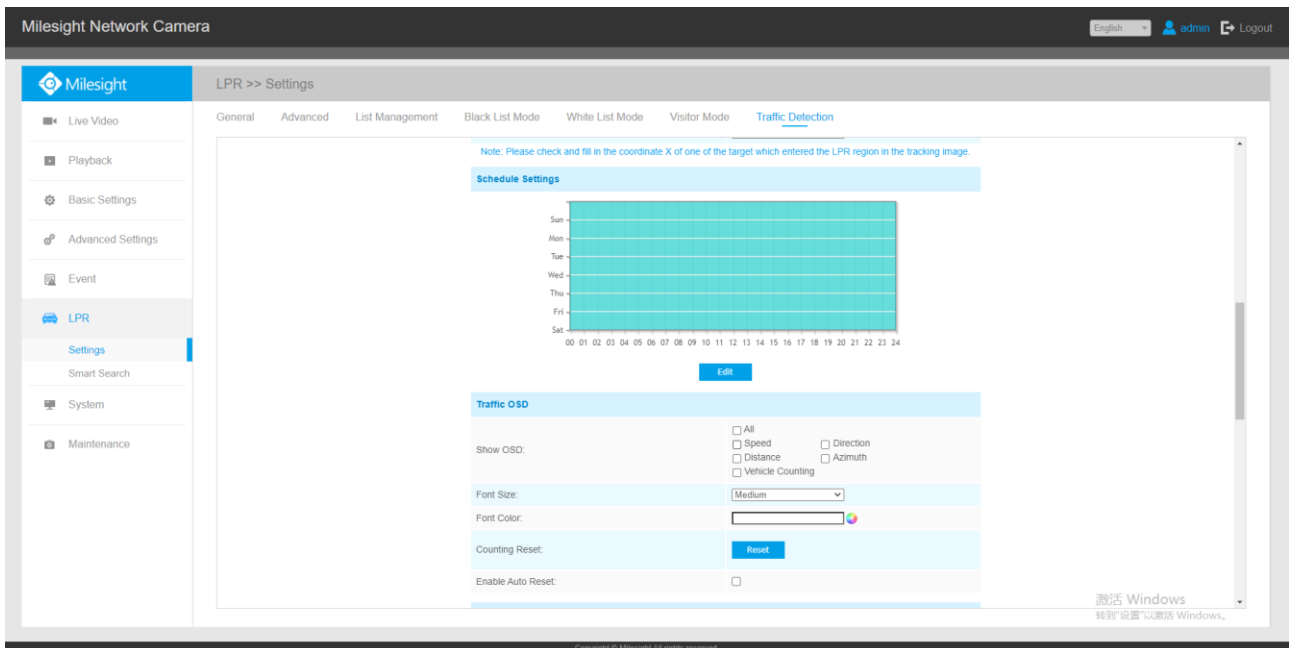


Figure 2-24-2

Traffic Alarm Threshold	
Max. Speed Limit:	<input type="checkbox"/> <input type="text"/> Km/h
Min. Speed Limit:	<input type="checkbox"/> <input type="text"/> Km/h
Driving Direction:	<input type="checkbox"/> Approach <input type="text"/>

Figure 2-24-3

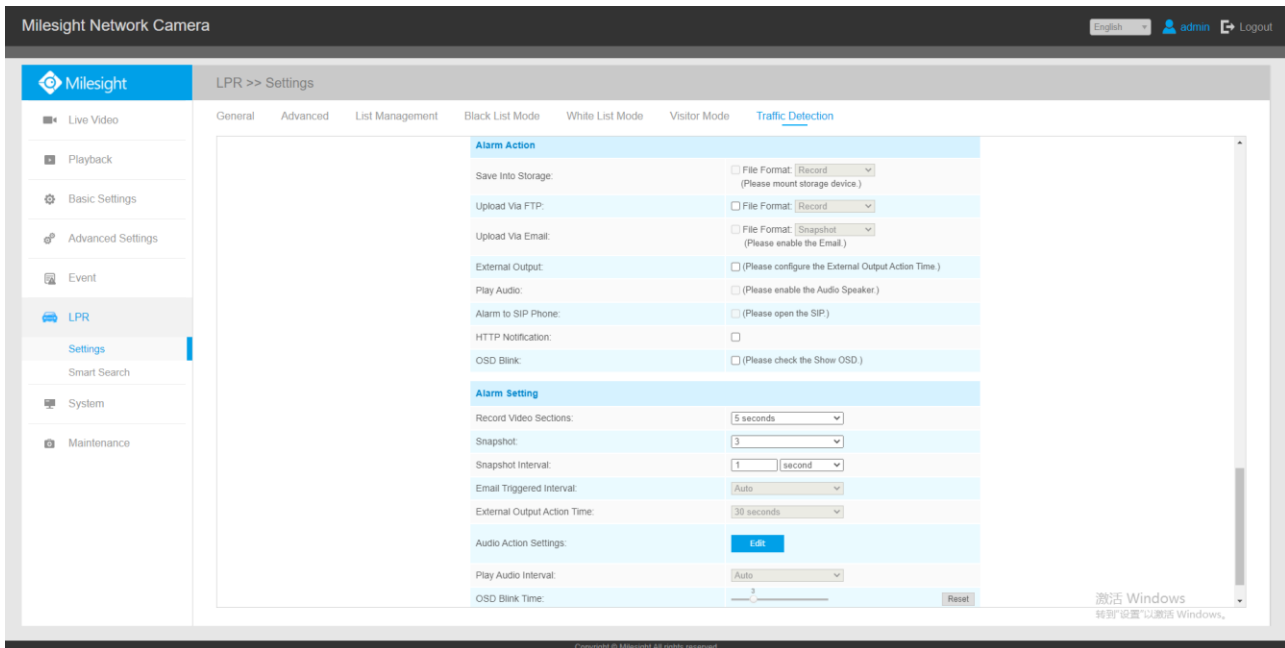


Figure 2-24-4

Example: Get Radar Configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.radar.configuration>

Return:

```
var radar_enable = '1'; var radar_height = '1.300000'; var radar_angle = '2.000000'; var radar_angle_com =
'10.000000'; var radar_coordinate_x1 = '20.000000'; var radar_coordinate_y1 = '0.000000'; var
radar_coordinate_x2 = '-6.000000'; var radar_coordinate_y2 = '100.000000'; var radar_point_x1 =
'46.310001'; var radar_point_y1 = '78.260002'; var radar_point_x2 = '32.889999'; var radar_point_y2 =
'29.100000'; var radar_trigger_line = '41'; var radar_trigger_distance = '100.000000'; var radar_lpr_region_1 =
'-2.000000'; var roi_coordinate_fill_1 = '1'; var radar_lpr_region_2 = '-3.000000'; var roi_coordinate_fill_2 = '0';
var radar_lpr_region_3 = '2.000000'; var roi_coordinate_fill_3 = '1'; var radar_lpr_region_4 = '5.000000'; var
roi_coordinate_fill_4 = '0'; var radar_show_speed = '0'; var radar_show_direction = '0'; var
radar_show_distance = '0'; var radar_show_azimuth = '0'; var radar_show_counting = '0'; var radar_font_size
= '2'; var radar_font_color = '255:200:255'; var radar_auto_reset = '0'; var radar_reset_weekday = '5'; var
radar_reset_time = '00:00:00'; var radar_max_speed_alarm = '0'; var radar_min_speed_alarm = '0'; var
radar_max_speed_threshold = '0.000000'; var radar_min_speed_threshold = '0.000000'; var
radar_driving_dir_alarm = '0'; var radar_driving_dir = '0'; var radar_schedule[0] =
'1000024000000000000000000000'; var radar_schedule[1] = '1000024000000000000000000000'; var
radar_schedule[2] = '1000024000000000000000000000'; var radar_schedule[3] =
'1000024000000000000000000000'; var radar_schedule[4] = '1000024000000000000000000000'; var
radar_schedule[5] = '1000024000000000000000000000'; var radar_schedule[6] =
'1000024000000000000000000000'; var radar_rule_actionrecord_enabled = '0'; var
radar_rule_actionrecord_file_type = '0'; var radar_rule_actionupload_enabled = '0'; var
radar_rule_actionupload_file_type = '0'; var radar_rule_actionemail_enabled = '1'; var
radar_rule_actionemail_file_type = '1'; var radar_rule_actiongpout_enabled = '1'; var
radar_rule_actiongpout_ext_enabled = '0'; var radar_rule_actionaudio_enabled = '1'; var
radar_rule_actionsip_enabled = '0'; var radar_rule_actionhttp_enabled = '0'; var
radar_rule_actionosdblink_enabled = '1'; var radar_rule_settingrecord_seconds = '30'; var
radar_rule_settingsnapshot = '3'; var radar_rule_settingsnapshot_interval = '1'; var
radar_rule_settingsnapshot_interval_unit = '1'; var radar_rule_settingemail_interval = '0'; var
radar_rule_settingtrigger_duration = '999'; var radar_rule_settingaudio_interval = '0'; var
radar_rule_settingosdblink_time = '3';
```

2.24.2 set.radar.configuration

To set traffic detection configurations.

Usage:

`http://<IP>/cgi-bin/operator/operator.cgi?action=set.radar.configuration<parameter>=<value>`

Example: set radar configuration

`http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.radar.configuration&radar_enable=1&radar_height=1.3&radar_angle=0&radar_angle_com=0`

2.24.3 get.radar.export

To get radar export configurations.

Usage:

`http://<IP>/cgi-bin/operator/operator.cgi?action=get.radar.export`

Parameter	Values	Description
auto_export_radar_enable	BYTE	Enable to auto export 0: No 1: Yes
auto_export_radar_weekday	Int	Weekday 0~7
auto_export_radar_hour	Int	Hour 0~23
auto_export_radar_min	Int	Minute 0~59
auto_export_radar_sec	Int	Second 0~59
auto_export_time_radar_range	BYTE	Time Range 0: All 1: Last 1 day 2: Last 1 week
auto_export_radar_method	Int	Export Method 0~7 FTP: 1 (1 << 0) Email: 2 (1 << 1) Storage: 4 (1 << 2)

Log Settings

Logs: Edit

Enable Auto Export Logs:

Day: Everyday ▼

Time: 00:00:00 📅

Export Time Range: Last 1 day ▼

Export to: FTP Email Storage

Figure 2-24-5

Example: Get Radar Export Configuration

`http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.radar.export`

Return:

`var auto_export_radar_enable = '1'; var auto_export_radar_method = '5'; var auto_export_radar_weekday =`

```
'1'; var auto_export_radar_time = '10:20:00'; var auto_export_radar_time_range = '0'; var auto_export_radar_method = '5';
```

Example: Get Radar Export Configuration

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.radar.export&format=inf
```

Return:

```
[RADAR_LOG_EXPORT]
auto_export_radar_enable=0
auto_export_radar_method=0
auto_export_radar_weekday=7
auto_export_radar_time=00:00:00
auto_export_radar_time_range=1
auto_export_radar_method=5
```

2.24.4 set.radar.export

To set radar export configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.radar.export<parameter>=<value>
```

Example: set radar configuration

```
http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.radar.export&auto_export_radar_enable=1&auto_export_radar_weekday=1&auto_export_radar_hour=10&auto_export_radar_min=20&auto_export_radar_sec=0&auto_export_radar_method=5
```

2.24.5 get.radar.detectdata

To get radar detection data.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.radar.detectdata
```

Parameter	Values	Description
idID	Int	Detection object ID: <i>ID: object number(0~32)</i>
speedID	Float	Speed(km/h): <i>ID: object number(0~32)</i>
xposID	Float	Horizontal distance(m): <i>ID: object number(0~32)</i>
distanceID	Float	Vertical distance(m): <i>ID: object number(0~32)</i>

Example: Get Radar Detection Data

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.radar.detectdata
```

Return:

```
var id0 = '3'; var speed0 = '3.000000'; var xpos0 = '5.430000'; var distance0 = '12.660000';
```

Example: Get Radar Detection Data

```
http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.radar.detectdata&format=inf
```

Return:

```
[RADAR_DETECTION_DATA]
id0=3
speed0=1.000000
xpos0=4.190000
distance0=10.9400000
```

2.25 Regional People Counting

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
REGIONAL PEOPLE	get.regional.people	Get Regional People Counting configurations.
	set.regional.people	Set Regional People Counting configurations.
	get.regional.people.detectdata	Get Regional People Counting Data.

2.25.1 get.regional.people

To get Regional People Counting configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=get.regional.people
```

Parameter	Values	Description
regional_people_regionid_enable	Integer	Enable to Detect 0: No 1: Yes <i>[id]:region number 0~3</i>
regional_people_sensitivity	Integer	Sensitivity 1~10
regional_people_scene	Integer	Scene 0~4
regional_people_minobject_x	An unsigned integer	Minimum object Top left X coordinates 0~320
regional_people_minobject_y	An unsigned integer	Minimum object Top left Y coordinates 0~240
regional_people_minobject_width	An unsigned integer	Minimum object width 1~320
regional_people_minobject_height	An unsigned integer	Minimum object height 1~240
regional_people_maxobject_x	An unsigned integer	Maximum object Top left X coordinates 0~320
regional_people_maxobject_y	An unsigned integer	Maximum object Top left Y coordinates 0~240
regional_people_maxobject_width	An unsigned integer	Maximum object width 1~320
regional_people_maxobject_height	An unsigned integer	Maximum object height 1~240
regional_people_regionid_polygon_x	String	X coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point <i>[id]:region number 0~3</i>
regional_people_regionid_polygon_y	String	Y coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point <i>[id]:region number 0~3</i>
regional_people_regionid_maxstay_enable	An unsigned	Enable to Detect Max Stay People

	integer	0: No 1: Yes <i>[id]:region number 0~3</i>
regional_people_regionid_minstay_enable	An unsigned integer	Enable to Detect Min Stay People 0: No 1: Yes <i>[id]:region number 0~3</i>
regional_people_regionid_maxstaytime_enable	An unsigned integer	Enable to Detect Max Stay Time 0: No 1: Yes <i>[id]:region number 0~3</i>
regional_people_regionid_maxstay	An unsigned integer	Max Stay People 1~60 <i>[id]:region number 0~3</i>
regional_people_regionid_minstay	An unsigned integer	Min Stay People 1~60 <i>[id]:region number 0~3</i>
regional_people_regionid_maxstaytime	An unsigned integer	Max Stay Time 1~1800 <i>[id]:region number 0~3</i>
regional_people_regionid_polygon_x_preset_ID	String	X coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point <i>[id]:region number 0~3</i> <i>[ID]:preset number 1~4</i>
regional_people_regionid_polygon_i_preset_ID	String	Y coordinates of the polygon detection region such as: 259:805:623:107:-1:-1:-1:-1:-1:-1: Ranges: 0~1024 -1 means no point <i>[id]:region number 0~3</i> <i>[ID]:preset number 1~4</i>
regionid_people_schedule_ch	String	Regional People detection schedule such as: regional0_epople_schedule[0]: 1011010001100130014002400 1:enable 0:disable 011010001100130014002400: start time:01:10 stop time:10:00 start time:11:00 stop time:13:00 start time:14:00 stop time:24:00 <i>[id]:region number 0~3</i> <i>[ch] 0~6 means Sun~Sat.</i>


```
regional_people_sensitivity=5
regional_people_scene=0
regional_people_minobject_x=160
regional_people_minobject_y=120
regional_people_minobject_width=3
regional_people_minobject_height=3
regional_people_maxobject_x=0
regional_people_maxobject_y=0
regional_people_maxobject_width=320
regional_people_maxobject_height=240
regional_people_region0_polygon_x=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_y=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_enable=0
regional_people_region0_maxstay_enable=0
regional_people_region0_minstay_enable=0
regional_people_region0_maxstaytime_enable=0
regional_people_region0_maxstay=60
regional_people_region0_minstay=1
regional_people_region0_maxstaytime=30
regional_people_region0_polygon_x_preset_1=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_y_preset_1=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_x_preset_2=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_y_preset_2=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_x_preset_3=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_y_preset_3=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_x_preset_4=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_polygon_y_preset_4=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region0_schedule_0='10000240000000000000000000000000'
regional_people_region0_schedule_1='10000240000000000000000000000000'
regional_people_region0_schedule_2='10000240000000000000000000000000'
regional_people_region0_schedule_3='10000240000000000000000000000000'
regional_people_region0_schedule_4='10000240000000000000000000000000'
regional_people_region0_schedule_5='10000240000000000000000000000000'
regional_people_region0_schedule_6='10000240000000000000000000000000'
regional_people_region1_polygon_x=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_y=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_enable=0
regional_people_region1_maxstay_enable=0
regional_people_region1_minstay_enable=0
regional_people_region1_maxstaytime_enable=0
regional_people_region1_maxstay=60
regional_people_region1_minstay=1
regional_people_region1_maxstaytime=30
regional_people_region1_polygon_x_preset_1=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_y_preset_1=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_x_preset_2=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_y_preset_2=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_x_preset_3=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_y_preset_3=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_x_preset_4=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_polygon_y_preset_4=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region1_schedule_0='10000240000000000000000000000000'
regional_people_region1_schedule_1='10000240000000000000000000000000'
regional_people_region1_schedule_2='10000240000000000000000000000000'
regional_people_region1_schedule_3='10000240000000000000000000000000'
regional_people_region1_schedule_4='10000240000000000000000000000000'
regional_people_region1_schedule_5='10000240000000000000000000000000'
regional_people_region1_schedule_6='10000240000000000000000000000000'
regional_people_region2_polygon_x=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region2_polygon_y=-1:-1:-1:-1:-1:-1:-1:-1:-1:-1:
regional_people_region2_enable=0
regional_people_region2_maxstay_enable=0
```


<http://<IP>/cgi-bin/operator/operator.cgi?action=get.regional.people.detectdata>

Parameter	Values	Description
frame_alarm	Integer	Regions Alarm: 0~15
stay_alarm	Integer	Regions Stay Alarm: 0~15
numid	Integer	Number Of People Staying In The Area: <i>id: region number(1~4)</i>
idID	Integer	People Id: <i>ID: peopele number(0~60)</i>
classID	Integer	Object Class: 1 <i>ID: peopele number(0~60)</i>
leftID	Integer	People Rect-Left: 0~320 <i>ID: peopele number(0~60)</i>
topID	Integer	People Rect-Top: 0~240 <i>ID: peopele number(0~60)</i>
rightID	Integer	People Rect-Right: 0~320 <i>ID: peopele number(0~60)</i>
bottomID	Integer	People Rect-Bottom: 0~240 <i>ID: peopele number(0~60)</i>
stay_alarmID	Integer	People Regions Stay Time Alarm: 0~15 <i>ID: peopele number(0~60)</i>
time_exsitID	Integer	People Existence Area Stay Time: 0~15 <i>ID: peopele number(0~60)</i>
timeid_ID	Integer	People Regions Stay Time: <i>id: region number(1~4)</i> <i>ID: peopele number(0~60)</i>

2.26 Access List

Action Type	Action Name	Description
ACCESS LIST	get.access.list	Get Access List configurations.
	set.access.list	Set Access List configurations.

2.26.1 get.access.list

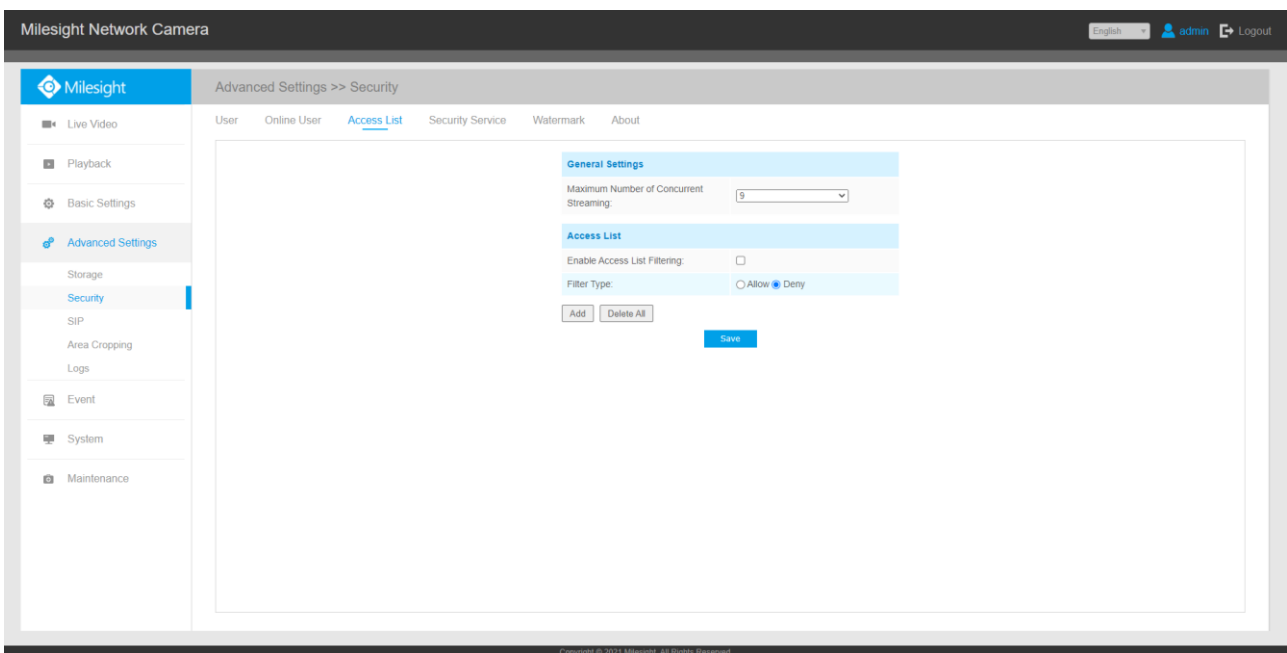
To get Access List configurations.

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.access.list>

Parameter	Values	Description
max_num_concurrent	Integer	Max Number of Concurrent Streaming 0: No Limit

		1~9: number
access_list_filter_enable	Integer	Enable to Access List Filtering 0: No 1: Yes
access_list_filter_type	Integer	Access List Filter Type 0: allow 1: refuse
access_list_address_index_[id]	Integer	Access List Filter Address Index 0~9 <i>[id]:address number 0~9</i>
access_list_address_type_[id]	Integer	Access List Filter Address Type 0~3 <i>[id]:address number 0~9</i>
access_list_address_[id]	String	Access List Filter Address NULL: delete NOT NULL: add or update <i>[id]:address number 0~9</i>



Example: Get Access List Configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.access.list>

Return:

```
var max_num_concurrent = '0'; var access_list_filter_enable = '0'; var access_list_filter_type = '1';
```

Example: Get Access List Configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.access.list&format=inf>

Return:

```
[Access_List]
max_num_concurrent=0
access_list_filter_enable=0
access_list_filter_type=1
```

2.26.2 set.access.list

To set Access List configurations.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.access.list<parameter>=<value>
```

Example: set Access List configuration

http://192.168.11.110/cgi-bin/operator/operator.cgi?action=set.access.list&max_num_concurrent=5

2.27 Regionallogcsv

To download regional people counting log. (result will be shown as csv file.)

Usage:

http://<IP>/dataloader.cgi?dw=regionalcountlogcsv&time_start=<value>&report_type=<value>

Parameter	Values	Description
report_type	An unsigned integer 0~2	0: daily report 1: weekly report 2: monthly report
lengthtype	An unsigned integer 0~2	0:All 1:More than 2:Less than
length	An unsigned integer 0~7	This value will only take effect when lengthtype > 0 Length of stay second 0:5s 1:10s 2:30s 3:60s 4:100s 5:300s 6:600s 7:1800s
region<ch>	An unsigned integer 0~1	Enable to export region 1~ 4 0:No 1:Yes <ch:region number 1 ~ 4>

Example:

http://192.168.0.200/dataloader.cgi?dw=regionalcountlogcsv&time_start=2021-04-20-00:00:00&report_type=0&lengthtype=1&length=3®ion1=1®ion2=0®ion3=1®ion4=1

2.27.1 get.regional.export

To get regional people counting log export(Auto Export).

Usage:

<http://<IP>/cgi-bin/operator/operator.cgi?action=get.regional.export>

Parameter	Values	Description
auto_export_enable	Boolean	Enable to auto export 0: No 1: Yes
auto_export_method	An unsigned integer 0~7	Export method 1: FTP 2: SMTP 4: Storage FTP+SMTP->1+2=3 FTP+Storage->1+4=5 ...

auto_export_weekday	An unsigned integer 0~7	weekday
auto_export_hour	An unsigned integer 0~23	hour
auto_export_min	An unsigned integer 0~59	minute
auto_export_sec	An unsigned integer 0~59	second
auto_export_time_range	An unsigned integer 0~2	Time range 0: All 1: Last 1 day 2: Last 1 week
auto_export_stay_type	An unsigned integer 0~2	0:All 1:More than 2:Less than
auto_export_stay_length	An unsigned integer 0~7	This value will only take effect when auto_export_stay_type > 0 Length of stay second 0:5s 1:10s 2:30s 3:60s 4:100s 5:300s 6:600s 7:1800s

Example: Get regional people counting's auto export configuration

<http://192.168.0.200/cgi-bin/operator/operator.cgi?action=get.regional.export>

Return:

```
var auto_export_enable = '0'; var auto_export_method = '3'; var auto_export_weekday = '2'; var
auto_export_time = '17:33:20'; var auto_export_enable = '1';
```

2.27.1 set.regional.export

Set auto export of regional people counting log.

Usage:

```
http://<IP>/cgi-bin/operator/operator.cgi?action=set.regional.export<parameter>=<value>
```

Example: set auto export to FTP.

http://192.168.0.200/cgi-bin/operator/operator.cgi?action=set.regional.export&auto_export_enable=1&auto_export_method=1

3. viewer.cgi

Permissions: Admin, Operator, Viewer

Usage:

```
http://<URL>/cgi-bin/viewer/viewer.cgi?action=<Action Name>[&<parameter=value>]
```

3.1 Live View

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
LIVE VIEW	get.liveview	Get live view parameters.
	get.fishmount	Get fisheye installation mode.
	set.fishmount	Set fisheye installation mode.
	get.fishdisplay	Get fisheye display mode.
	set.fishdisplay	Set fisheye display mode.
	get.fishcorrect	Get fisheye transfer mode.
	set.fishcorrect	Set fisheye transfer mode.
	get.fishviewfield	Get fisheye field of view.
	set.fishviewfield	Set fisheye field of view.

3.1.1 get.liveview

To get live view information.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.liveview
```

Parameter	Values	Description
media_profile_id_<ch>	An unsigned integer	0: Main stream 1: Sub stream 2: Third stream
media_profile_resolution_width_<ch>	An unsigned integer	The width of stream. <i>ch: 0~2 means main stream to third stream.</i>
media_profile_resolution_height_<ch>	An unsigned integer	The height of stream.
media_profile_framerate_<ch>	An unsigned integer	The frame rate of stream.
media_profile_enabled_<ch>	Boolean	0: Disable 1: Enable

Example: request live view information

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.liveview
```

Return:

```
var system_deviceinformation_vender = "; var system_deviceinformation_sensor = 'imx290'; var system_deviceinformation_tvstandards = '-1'; var system_deviceinformation_model = 'MS-C2962-FIPB'; var rtsp_port = '554'; var model_hardware_serialport = '1'; var ptz_setting_enable = '1'; var ptz_setting_protocol = '0'; var ptz_setting_speed = '5'; media_profile_id_0 = '0'; media_profile_url_0 = 'main'; media_profile_dptz_enabled_0 = '0'; media_profile_resolution_width_0 = '1920'; media_profile_resolution_height_0 = '1080'; media_profile_framerate_0 = '24'; media_profile_id[1] = '1'; media_profile_enabled[1] = '1'; media_profile_url[1] = 'sub'; media_profile_resolution_width[1] = '640'; media_profile_resolution_height[1] = '480'; media_profile_framerate[1] = '24'; media_profile_id[2] = '2'; media_profile_enabled[2] = '0'; media_profile_url[2] = 'third'; media_profile_resolution_width[2] = '640';
```

```
media_profile_resolution_height[2] = '480'; media_profile_framerate[2] = '24'; var islogo = '0';
```

Example: request live view information

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.liveview&format=inf
```

Return:

```
[LIVE_VIEW]
system_deviceinformation_vender=
system_deviceinformation_sensor=imx290
system_deviceinformation_tvstandards=-1
var system_deviceinformation_model = 'MS-C2962-FIPB'; rtsp_port=554
model_hardware_serialport=1
ptz_setting_enable=1
ptz_setting_protocol=0
ptz_setting_speed=5
media_profile_id_0=0
media_profile_url_0=main
media_profile_resolution_width_0=1920
media_profile_resolution_height_0=1080
media_profile_framerate_0=24
media_profile_id_1=1
media_profile_enabled_1=1
media_profile_url_1=sub
media_profile_resolution_width_1=640
media_profile_resolution_height_1=480
media_profile_framerate_1=24
media_profile_id_2=2
media_profile_enabled_2=0
media_profile_url_2=third
media_profile_resolution_width_2=640
media_profile_resolution_height_2=480
media_profile_framerate_2=24
islogo=0
```

3.1.2 rotate.dptz (not implemented)

To set Digital PTZ.

3.1.3 get.fishmount

To get fisheye installation.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.fishmount
```

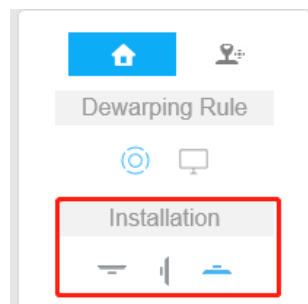


Figure 3-1-3

Example: get fisheye installation information

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=get.fishmount
```

Return:

```
var fisheye_mount = 0;
(0: Ceiling 1: Wall 2: Flat)
```

3.1.4 set.fishmount

To set fisheye installation.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=set.fishmount&fishinstallmodel=<value>
```

Parameter	Values	Description
fishinstallmodel	An unsigned integer	0: Ceiling 1: Wall 2: Flat

Example: set fisheye installation to ceiling

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=set.fishmount&fishinstallmodel=0
```

3.1.5 get.fishdisplay

To get fisheye display.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.fishdisplay
```

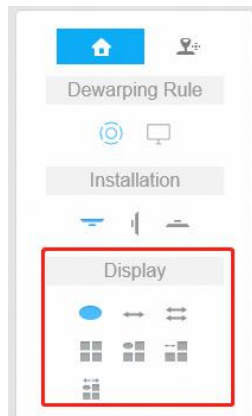


Figure 3-1-5

Example: get fisheye display information

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=get.fishdisplay
```

Return:

```
var fisheye_display = 0;
(for the result 0~7, you can refer to the description in 3.1.6).
```

3.1.6 set.fishdisplay

To set fisheye display.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=set.fishdisplay&fishdisplaymodel=<value>
```

Parameter	Values	Description
fishdisplaymodel	An unsigned integer	0: 1O 1: 1P 2: 2P(Wall mounting not implemented) 3: 2R(not implemented) 4: 4R 5: 1O3R 6: 1P3R 7: 1O1P3R(only for Multi-channel Mode) <i>Note: only work for On-board Dewarping.</i>

Example: set fisheye display to 1O3R

`http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=set.fishdisplay&fishdisplaymodel=5`

3.1.7 get.fishcorrect

To get fisheye transfer mode.

Usage:

`http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.fishcorrect`

Parameter	Values	Description
fisheye_correct	An unsigned integer	Fisheye Transfer Mode 0: Multi-Channel Mode 1: Bundle-Stream Mode

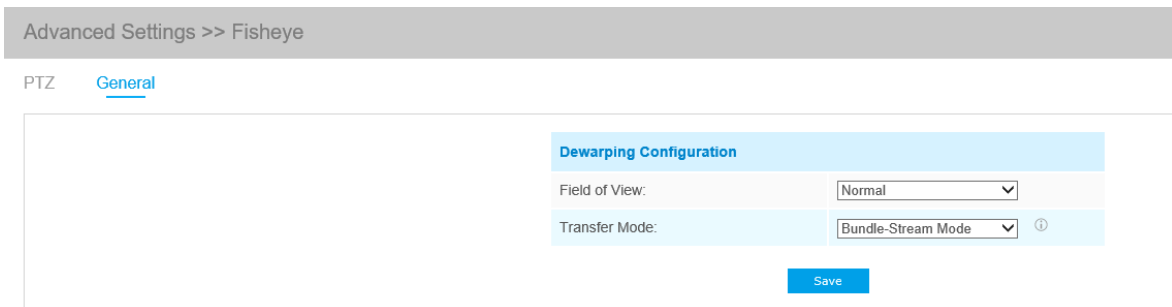


Figure 3-1-7

Example: request fisheye display information

`http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=get.fishcorrect`

Return:

`var fisheye_correct = 1;`

(0: Multi-Channel Mode 1: Bundle-Stream Mode)

3.1.8 set.fishcorrect

To set fisheye transfer mode.

Usage:

`http://<IP>/cgi-bin/viewer/viewer.cgi?action=set.fishcorrect&fishcorrectmodel=<value>`

Parameter	Values	Description
fishcorrectmodel	An unsigned integer	0: Multi-Channel Mode 1: Bundle-Stream Mode

Example: set fisheye correct model and FoV

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=set.fishcorrect&fishcorrectmodel=0&fisheye_view_field=1
```

3.1.9 get.fishviewfield

To get fisheye field of view.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.fishviewfield
```

Parameter	Values	Description
fisheye_view_field	An unsigned integer	Field of View 0: Original View Larger 1: Normal 2: All View Larger

Example: request fisheye display information

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=get.fishviewfield
```

Return:

```
var fisheye_view_field = 2
```

3.1.10 set.fishviewfield

To set fisheye field of view.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=set.fishviewfield&fisheye_view_field=<value>
```

Parameter	Values	Description
fisheye_view_field	An unsigned integer	Field of View 0: Original View Larger 1: Normal 2: All View Larger

Example: set fisheye field of view

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=set.fishviewfield&fisheye_view_field=1
```

3.1.11 get.ptz.runstatus

To get ptz run status.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.ptz.runstatus
```

Parameter	Values	Description
ptz_run_status	An unsigned integer	Ptz run status 0: Stop 21: Auto Scan Running 58: Patrol Running 60: One-touch Patrol Running

		73: Pattern Running
ptz_tour_status_<ch>	An unsigned integer	ch: index of Patrol(1 ~ 8) Patrol Run Status 0: stop 1: running
ptz_pattern_status_<ch>	An unsigned integer	ch: index of Pattern(1 ~ 4) Pattern Run Status 0: stop 1: running
fish_<id>_ptz_run_status	An unsigned integer	id: Fisheye Stream ID Fisheye run status 0/32: Stop 21: Auto Scan Running
fish_<id>_ptz_tour_status_<ch>	An unsigned integer	id: Fisheye Stream ID ch: index of Patrol(1 ~ 8) Fisheye Patrol Run Status 0: stop 1: running

Example: request ptz run status

<http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=get.ptz.runstatus>

Return:

```
var ptz_run_status = '0';var ptz_tour_status_1 = '0';var ptz_tour_status_2 = '0';var ptz_tour_status_3 = '0';var
ptz_tour_status_4 = '0';var ptz_tour_status_5 = '0';var ptz_tour_status_6 = '0';var ptz_tour_status_7 = '0';var
ptz_tour_status_8 = '0';var ptz_pattern_status_1 = '0';var ptz_pattern_status_2 = '0';var ptz_pattern_status_3
= '0';var ptz_pattern_status_4 = '0';
```

3.2 PTZ Control

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
PTZ CONTROL	ptz.control	Control the PTZ.
	ptz.speed	Set PTZ speed.
	fishptz.control	Control the (digital) PTZ of fisheye.
	ptz.status	Get Speed Dome status(temperature, heater and fan status).
	get.ptz.preset	Get PTZ presets information.
	get.fisheye.preset	Get Fisheye presets information.

3.2.1 ptz.control

To control a PTZ.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=<value>&<parameter>=<value>
```

Parameter	Values	Description
-----------	--------	-------------

ptz_cmd	An unsigned integer	PTZ control command 0: STOP 1: UP 2: DOWN 3: LEFT 4: RIGHT 5: TOP RIGHT 6: TOP LEFT 7: BOTTOM RIGHT 8: BOTTOM LEFT 11: PTZ_MOVE 32: ZOOM_IN 33: ZOOM_OUT 34: FOCUS_NEAR 35: FOCUS_FAR 36: IRIS_CLOSE 37: IRIS_OPEN 38: AUTO_IRIS_ON 39: AUTO_IRIS_OFF 48: ZOOM_AUTO(not implemented) 49: FOCUS_AUTO 50: IRIS_AUTO(not implemented) 64: Preset Point SET 65: Preset Point CLEAR 66: Preset Point GOTO 70: PresetTour Run 71: PresetTour Stop 72: PresetTour Set 73: PresetTour Add 74: PresetTour Clear 75: PresetTour Get 76: SetPosition 77: GetPosition 78: Set 3D Positioning 79: Get 3D Positioning 80: AUTOPAN_ON(not implemented) 81: AUTOPAN_OFF(not implemented) 82: ZONESCAN_ON(not implemented) 83: ZONESCAN_OFF(not implemented) 84: Light On 85: Light Off 86: Set Position(Relative Initial Position) 87: Get Position(Relative Initial Position) 90: Pattern Start Record 91: Pattern Stop Record 92: Pattern Run 93: Pattern Stop 94: Pattern Del 100: Auto Scan 101: one-touch Patrol 102: Lens Initialization 103: Auto Home 104: Dehumidifying 105: Get Dehumidifying 128: FLIP_ON(not implemented) 129: FLIP_OFF(not implemented) 130: REMOTE_RESET(not
---------	---------------------	--

		implemented)
ptz_go_point	An unsigned integer 1~32	Go to a preset position according to the preset number. (Only using PTZ command 64/65/66)
ptz_status	Boolean	Stop PTZ after PTZ control command 0 : No 1 : Yes
ptz_tour_point	An unsigned interger 1-8	the PresetTour number(Only using PTZ command 70/71/72/74/75)
ptz_tour_preset_point_<ch>	An unsigned interger 1-32	the Preset number in PresetTour(Max Preset number in a PresetTour is 64)
ptz_tour_preset_speed_<ch>	An unsigned interger 1-100	the speed to the preset point in PresetTour
ptz_tour_preset_time_<ch>	An unsigned interger 0-120 second(s)	the stay time at the preset point in PresetTour
ptz_tour_status	Boolean	the PresetTour running status 1: running 2: not running
ptz_pan_pos	Integer or decimal	Pan angle 0~360
ptz_tilt_pos	Integer or decimal	Tilt angle 0~90
ptz_zoom_pos	Integer or decimal	Zoom ratio 0~30
ptz_3dposition_x	Integer or decimal (0-100)	(x,y) is coordinate of the whole image. For example, (0,0) is top-left, (100,100) is bottom-right. It will move the position (x,y) to the center of image.
ptz_3dposition_y	Integer or decimal (0-100)	
ptz_3dposition_zoom	Integer or decimal (25-400)	Zoom by a factor of "zoom/100". If zoom is more than 100 the image is zoomed in. For example: if current zoom ratio is 01, set zoom=300, it will turn to zoom ratio 03; if current zoom ratio is 02, set zoom=300, it will turn to zoom ratio 06. If zoom is less than 100 the image is zoomed out. For example: if current zoom ratio is 06, set zoom=50, the zoom ratio will turn to 03.
ptz_preset_name	String	Preset name
ptz_pattern_point	An unsigned interger 1-4	Pattern Number
ptz_autohome_enable	Boolean	Enable Auto Home 0 : No 1 : Yes
ptz_dehumidify_enable	Boolean	Enable Dehumidifying 0 : No 1 : Yes
ptz_direction	An unsigned interger 0-7	0 : Up 1 : Down 2 : Left 3 : Right 4 : Left_Up 5 : Right_Down 6 : Left_Down 7 : Right_Up
ptz_pan_speed	An unsigned interger 1-10	Ptz Move Pan Speed

ptz_tilt_speed	An unsigned interger 1-10	Ptz Move Tilt Speed
----------------	------------------------------	---------------------

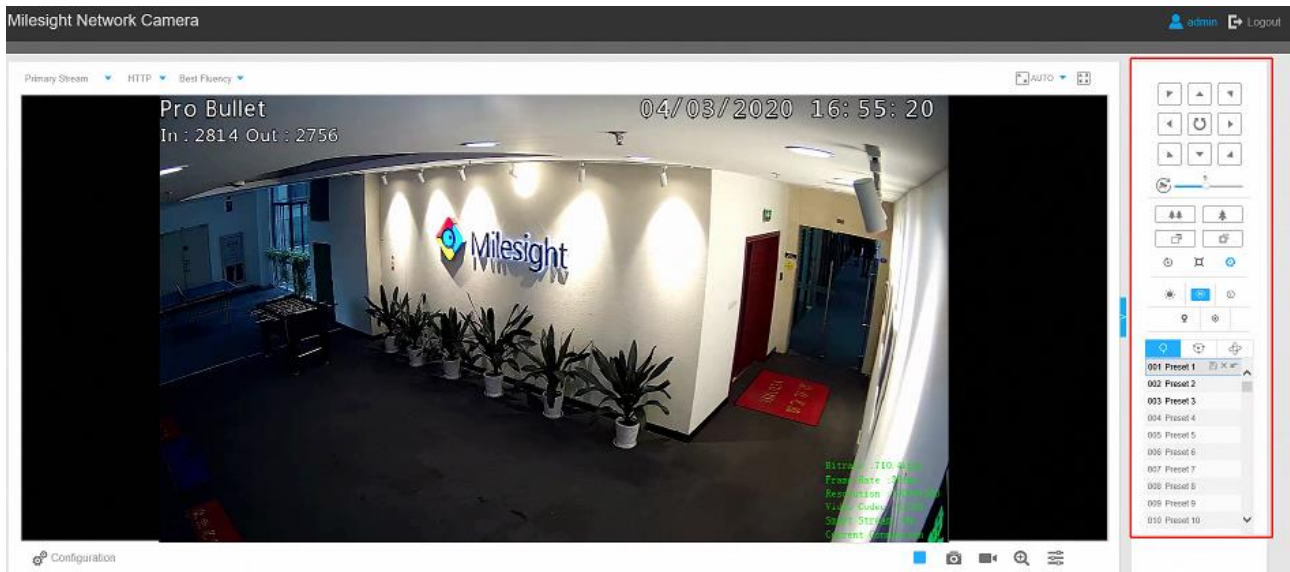


Figure 3-2-1

Example: set the PTZ UP with STOP

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=1&ptz_status=1
```

Example: set the PTZ LIFE without STOP

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=3&ptz_status=0
```

Example: set the PTZ goto preset 10

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=66&ptz_go_point=10
```

Example: Run PresetTour 5

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=70&ptz_tour_point=5
```

Example: add Preset Point 10 to PresetTour 5

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=73&ptz_tour_point=5&ptz_tour_preset_point=10&ptz_tour_preset_speed=30&ptz_tour_preset_time=10
```

Example: Clear the Preset Tour 5

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=74&ptz_tour_point=5
```

Example: Get the Preset Tour 5

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=75&ptz_tour_point=5
```

Return:

```
[PresetTour]
ptz_tour_ponit=5
ptz_tour_preset_point_1=5
ptz_tour_preset_speed_1=30
ptz_tour_preset_time_1=10
ptz_tour_preset_point_2=1
ptz_tour_preset_speed_2=30
ptz_tour_preset_time_2=10
```

Example: Set the Preset Tour 5

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=72&ptz_tour_point=5&ptz_tour_preset_point_1=5&ptz_tour_preset_speed_1=30&ptz_tour_preset_time_1=10&ptz_tour_preset_point_2=1&ptz_tour_preset_speed_2=30&ptz_tour_preset_time_2=10
```

z_tour_preset_speed_2=30&ptz_tour_preset_time_2=10

Example: Set the PTZ Position

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=76&ptz_pan_pos=45.000000&ptz_tilt_pos=45.000000&ptz_zoom_pos=15.000000

Example: Get the PTZ Position

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=77

Return:

```
[PTZPosition]
ptz_pan_pos=45.000000
ptz_tilt_pos=90.000000
ptz_zoom_pos=15.000000
current_preset_id=0 (1: preset 1, 2: preset 2, 3: preset 3, 4: preset 4, -1: other presets, 0: Non-PTZ)
```

Example: Set 3D Positioning

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=78&ptz_3dposition_x=0&ptz_3dposition_y=0&ptz_3dposition_zoom=400

Example: Pattern 2 Run

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=92&ptz_pattern_point=2

Example: Start Auto Home

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=103&ptz_autohome_enable=1

Example: Start Dehumidifying

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=104&ptz_dehumidify_enable=1

Example: Ptz Move

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.control&ptz_cmd=11&ptz_direction=6&ptz_pan_speed=1&ptz_tilt_speed=2

3.2.2 ptz.speed

To set PTZ speed.

Usage:

http://<IP>/cgi-bin/viewer/viewer.cgi?action=ptz.speed&ptz_setting_speed=<value>

Parameter	Values	Description
ptz_setting_speed	1~10	PTZ speed

Example: set the PTZ speed 10

http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.speed&ptz_setting_speed=10

3.2.3 fishptz.control

To control a fisheye PTZ.

Usage:

http://<IP>/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=<value>&<parameter>=<value>

Parameter	Values	Description
ptz_cmd	An unsigned integer	PTZ control command

		0: STOP 1: UP 2: DOWN 3: LEFT 4: RIGHT 5: TOP RIGHT 6: TOP LEFT 7: BOTTOM RIGHT 8: BOTTOM LEFT 32: ZOOM_IN 33: ZOOM_OUT 34: FOCUS_NEAR(not implemented) 35: FOCUS_FAR(not implemented) 36: IRIS_CLOSE(not implemented) 37: IRIS_OPEN(not implemented) 48: ZOOM_AUTO(not implemented) 49: FOCUS_AUTO(not implemented) 50: IRIS_AUTO(not implemented) 64: Preset Point SET 65: Preset Point CLEAR 66: Preset Point GOTO 70: PresetTour Run 71: PresetTour Stop 72: PresetTour Set 73: PresetTour Add 74: PresetTour Clear 75: PresetTour Get 76: SetPosition 77: GetPosition 78: Set 3D Positioning(not implemented) 80: AUTOPAN_ON(not implemented) 81: AUTOPAN_OFF(not implemented) 82: ZONESCAN_ON(not implemented) 83: ZONESCAN_OFF(not implemented) 84: Light On(not implemented) 85: Light Off(not implemented) 100: Auto Scan 128: FLIP_ON(not implemented) 129: FLIP_OFF(not implemented) 130: REMOTE_RESET(not implemented)
ptz_go_point	An unsigned integer 1~32	Go to a preset position according to the preset number. (Only using PTZ command 64/65/66)
ptz_preset_name	string	Preset Name(Only using PTZ command 64)
ptz_status	Boolean	Stop PTZ after PTZ control command 0 : No 1 : Yes
ptz_tour_point	An unsigned interger 1-8	the PresetTour number(Only using PTZ command 70/71/72/74/75)
ptz_tour_preset_point_<ch>	An unsigned interger 1-32	the Preset number in PresetTour(Max Preset number in a PresetTour is 64)
ptz_tour_preset_speed_<ch>	An unsigned interger 1-100	the speed to the preset ponit in PresetTour
ptz_tour_preset_time_<ch>	An unsigned interger 0-120 second(s)	the stay time at the preset point in PresetTour
ptz_tour_status	Boolean	the PresetTour running status

		1: running 2: not running
ptz_pan_pos	Integer or decimal	Pan angle 0~360
ptz_tilt_pos	Integer or decimal	Tilt angle 0~90
ptz_zoom_pos	Integer or decimal	Zoom rate 0~30
stream_id	An unsigned interger 0-4	stream id. 0:primary stream 1:secondary stream 2:tertiary stream 3:fourth stream 4:fifthstream (1O 1P 2P have 2 stream,4R 1O3R 1P3R have 4 stream,101P3R has 5 stream)

Example: set the PTZ UP with STOP

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=1&ptz_status=1&stream_id=0

Example: set the PTZ LIFE without STOP

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=3&ptz_status=0&stream_id=0

Example:set preset 1(main stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&stream_id=0&ptz_cmd=64&ptz_go_point=1

Example: set the PTZ goto preset 10(main stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=66&ptz_go_point=10&stream_id=0

Example: Run PresetTour 5(fifth stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=70&ptz_tour_point=5&stream_id=4

Example: Stop PresetTour 5(fifth stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=71&ptz_tour_point=5&stream_id=4

Example: Set PresetTour 1(mainstream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&stream_id=0&ptz_cmd=72&ptz_tour_point=1&ptz_tour_preset_point_1=1&ptz_tour_preset_speed_1=5&ptz_tour_preset_time_1=5&ptz_tour_preset_point_2=2&ptz_tour_preset_speed_2=5&ptz_tour_preset_time_2=5&ptz_tour_preset_point_3=3&ptz_tour_preset_speed_3=5&ptz_tour_preset_time_3=5

Example: add Preset Point 4 to PresetTour 1(main stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=73&ptz_tour_point=1&ptz_tour_preset_point=4&ptz_tour_preset_speed=5&ptz_tour_preset_time=5&stream_id=0

Example: Clear the Preset Tour 1(main stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=74&ptz_tour_point=1&stream_id=0

Example: Get the Preset Tour 5(main stream)

http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=75&ptz_tour_point=5&stream_id=0

Return:


```
[PresetTour]
stream_id=0
ptz_tour_ponit=5
ptz_tour_preset_point_1=5
ptz_tour_preset_speed_1=30
ptz_tour_preset_time_1=10
ptz_tour_preset_point_2=1
ptz_tour_preset_speed_2=30
ptz_tour_preset_time_2=10
```

Example: Set the PTZ Position(main stream)

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=76&ptz_pan_pos=45&ptz_tilt_pos=200&ptz_zoom_pos=15%stream_id=0
```

Example: Get the PTZ Position(main stream)

```
http://192.168.11.110/cgi-bin/viewer/viewer.cgi?action=fishptz.control&ptz_cmd=77&stream_id=0
```

Return:

```
[PTZPosition]
stream_id = 1
ptz_pan_pos=45
ptz_tilt_pos=200
ptz_zoom_pos=15
```

3.2.4 ptz.status

To get PTZ status(temperature, heater and fan status).

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=ptz.status
```

Example: get the PTZ status

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=ptz.status
```

Return:

```
var Temperature = 33.860000° C; var Heater = 0; var Fan = 1;
```

3.2.5 get.ptz.preset

To get PTZ presets information.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.ptz.preset
```

Example: get the PTZ presets

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.ptz.preset
```

Return:

```
var preset_1 = -2142:180.000000:0.000000:p1; var preset_2 = -2142:180.000000:0.000000:p2; var
preset_71 = -2142:180.000000:0.000000:p3; var preset_72 = -2142:180.000000:0.000000:p4;
```

3.2.6 get.fisheye.preset

To get Fisheye presets information.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.fisheye.preset
```

Example: get the Fisheye presets

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.fisheye.preset&stream=0
```

Return:

```
var preset_1 = 0:0.000000:180.000000:Preset 1; var preset_2 = 0:0.000000:180.000000:Preset 2;
```

3.3 System

(In 'Action Name' column, you can keep pressing CTRL and click each action name to jump to corresponding part.)

Action Type	Action Name	Description
SYSTEM	get.setup	Get misc setting.
	get.Model	Get model name.
	get.model.general	Get general settings(audio, fisheye, LED, PTZ, VCA, LPR... is supported or not).

3.3.1 get.setup

To get misc setting.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.setup
```

Example: request the misc setting

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.setup
```

Return:

```
var system_deviceinformation_vender = ""; var system_misc_haveyoics = '0'; var islogo = '0';
```

3.3.2 get.Model

To get Model name.

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.Model
```

Example: request the model name

```
http://192.168.0.200/cgi-bin/viewer/viewer.cgi?action=get.Model
```

Return:

```
var system_deviceinformation_vender = ""; var name = 'MS-C2962-FIPB'; var system_deviceinformation_model = 'MS-C2962-FIPB';
```

3.3.3 get.model.general

To get general settings(audio, fisheye, LED, PTZ, VCA, LPR... is supported or not).

Usage:

```
http://<IP>/cgi-bin/viewer/viewer.cgi?action=get.model.general
```

Parameter	Values	Description
system_io_support	Boolean	The device support alarm input and output

		moudle 1: support 0: not support
system_audio_support	Boolean	The device support audio moudle 1: support 0: not support
system_fisheye_support	Boolean	The device support fisheye function 1: support 0: not support
system_vca_support	Boolean	The device support vca function 1: support 0: not support
system_audio_alarm_support	Boolean	The device support play audio when alarm happen 1: support 0: not support
system_led_support	Boolean	The device support led 1: support 0: not support
system_led_group_support	Boolean	The device support led group 1: support 0: not support
system_ptz_motion_support	Boolean	The device support ptz motion(Alarm,Advanced Motion,Loitering) 1: support 0: not support
system_ptz_motion_max_zoom_times	An unsigned interger	Max Proportional Zoom Times
system_real_ptz_support	Boolean	The device support ptz 1: support 0: not support
system_lpr_support	Boolean	The device support LPR 1: support 0: not support
system_lpr_version	An unsigned interger	1: LPR2 2: LPR3 3: LPR1

Example: get the general settings

<http://192.168.9.154:80/cgi-bin/viewer/viewer.cgi?action=get.model.general>

Return:

```
var system_io_support = '1';var system_audio_support = '1';var system_fisheye_support = '1';var
system_vca_support = '1';var system_audio_alarm_support = '1';var system_led_support = '1';var
system_led_group_support = '1'
```

4. Operator misc

Permissions: Admin, Operator

Usage:

```
http://<URL>/cgi-bin/operator/<CGI>.cgi?action=<value>[&<parameter=value>]
```

4.1 Filelist

4.1.1 file.list

To get file list by search time range. (for old firmware)

Usage:

```
http://<IP>/cgi-bin/operator/filelist.cgi?action=file.list
```

Parameter	Values	Description
s_year	An unsigned integer	The year of search start time
s_month	An unsigned integer 0~11	The month of search start time
s_day	An unsigned integer 1~31	The day of search start time
s_hour	An unsigned integer 0~23	The hour of search start time
e_year	An unsigned integer	The year of search end time
e_month	An unsigned integer 0~11	The month of search end time
e_day	An unsigned integer 1~31	The day of search end time
e_hour	An unsigned integer 0~23	The hour of search end time
page	An unsigned integer	The page of all file list

Example: File search

```
http://192.168.0.200/cgi-bin/operator/filelist.cgi?action=file.list&s_year=2016&s_month=7&s_day=15&s_hour=0&e_year=2016&e_month=7&e_day=15&e_hour=15
```

Return: Record file list (page 0).

```
Files[0] = '120160714235949_41.avi'; Files[1] = '120160715000726_41.avi'; Files[2] = '120160715110552_20.avi'; Files[3] = '120160715110613_20.avi'; Files[4] = '120160715110633_20.avi'; Files[5] = '120160715110653_20.avi'; Files[6] = '120160715110713_20.avi'; Files[7] = '120160715110734_20.avi'; Files[8] = '120160715110754_20.avi'; Files[9] = '120160715110814_6.avi'; var total_files = '10'; var files_count = '20';
```

Example: First search

```
http://192.168.0.200/cgi-bin/operator/filelist.cgi?action=file.list&s_year=2016&s_month=7&s_day=15&s_hour=0&e_year=2016&e_month=7&e_day=15&e_hour=15&format=inf
```

Return: Record file list (page 0).

```
Files0=120160714235949_41.avi Files1=120160715000726_41.avi Files2=120160715110552_20.avi Files3=120160715110613_20.avi Files4=120160715110633_20.avi Files5=120160715110653_20.avi Files6=120160715110713_20.avi Files7=120160715110734_20.avi Files8=120160715110754_20.avi Files9=120160715110814_6.avi total_files=10 files_count=20
```

4.1.2 del.files (not implemented)

To delete record file by name.

4.1.3 playback (not implemented)

To playback record file by name.

4.1.4 recycle.cgi (not implemented)

To get SD card information.

4.1.5 Snapshot

To make snapshot.

Example:

`http://192.168.0.200/cgi-bin/operator/snapshot.cgi` (for Ti)
`http://192.168.0.200/snapshot.cgi` (for MSAC&MSHC)

5. Misc CGI

5.1 notify.fcgi

Permission: Admin, Operator, Viewer

The client side should keep receiving notification information from camera. It includes all available events or status as follow table.

The notification information is only generated on while event or status changed. If there is no any changed event or status being reported within 30 second, a special tag: “keep_alive” will be send to the client side.

Usage:

```
http://<IP>/cgi-bin/notify.fcgi
```

Return:

with the following parameters and values

Name	Values	Description
md#	active	event motion detection # is triggered or not.
input#	active	event input # is triggered or not.
output#	active,inactive	status of output # is on or off
recording	active	status is recording
pir	active	
lightsensor	active	
boot	active	
ipchang	active	

Example:

```
http://192.168.0.200/cgi-bin/notify.fcgi
```

Return:

```
keep_alive
```

5.1.1 set.notify

To set event parameter.

Parameter	Values	Description
manualmotion	integer	Set motion alarm Manually

Example:

```
http://192.168.0.200/cgi-bin/notify.fcgi?action=manualmotion
```


Appendix A

Timezone name	system_datetime_timezone_tz	system_datetime_zonename_tz
(UTC-11:00) United States(Samoa)	-11	Samoa
(UTC-10:00) Cook Islands(Rarotonga)	-10	Cook
(UTC-10:00) Tahiti	-10	Polynesia
(UTC-10:00) United States(Hawaii)	-10	USA
(UTC-10:00) United States(Alaska - Aleutian)	-10	USA2
(UTC-09:00) United States - Alaska Time	-9	USA
(UTC-08:00) Canada(Vancouver, Whitehorse)	-8	CAN
(UTC-08:00) Mexico(Tijuana, Mexicali)	-8	MEX
(UTC-08:00) United States - Pacific Time	-8	USA
(UTC-07:00) Canada(Edmonton, Calgary)	-7	CAN
(UTC-07:00) Mexico(Mazatlan, Chihuahua)	-7	MEX
(UTC-07:00) United States - Mountain Time	-7	USA
(UTC-06:00) Canada(Winnipeg, Edmonton)	-6	CAN
(UTC-06:00) Chile(Easter Islands)	-6	CHL
(UTC-06:00) Mexico(Mexico City, Acapulco)	-6	MEX
(UTC-06:00) United States - Central Time	-6	USA
(UTC-05:00) Bahamas(Nassau)	-5	BHS
(UTC-05:00) Brazil(Acre, Amazonas)	-5	BRA
(UTC-05:00) Canada(Montreal, Ottawa, Quebec)	-5	CAN
(UTC-05:00) Cuba(Havana)	-5	CUB
(UTC-05:00) United States - Eastern Time	-5	USA
(UTC-04:00) Venezuela(Caracas)	-4	VEN
(UTC-04:00) Canada(Halifax, Saint John)	-4	CAN
(UTC-04:00) Chile(Santiago)	-4	CHL
(UTC-04:00) Paraguay(Asuncion)	-4	PRY
(UTC-04:00) Trinidad&Tobago	-4	TTB
(UTC-04:00) United Kingdom(Bermuda)	-4	BMU
(UTC-04:00) United Kingdom(Falkland Islands)	-4	FLK
(UTC-03:30) Canada(New Foundland - St. Johns)	-3:30	CAN
(UTC-03:00) Argentina(Buenos Aires)	-3	ARG
(UTC-03:00) Brazil(no DST)	-3	BRA2
(UTC-03:00) Brazil(DST)	-3	BRA1
(UTC-03:00) Denmark(Greenland - Nuuk)	-3	GRL
(UTC-02:00) Brazil(no DST)	-2	BRA
(UTC-01:00) Portugal(Azores)	-1	PRT
(UTC+00:00) Denmark(Faroe Islands -Torshavn)	0:00	FRO
(UTC+00:00) Ireland(Dublin)	0:00	IRL
(UTC+00:00) Portugal(Lisboa, Porto, Funchal)	0:00	PRT
(UTC+00:00) Spain(Canary Islands - Las Palmas)	0:00	ESP
(UTC+00:00) United Kingdom(London)	0:00	GBR
(UTC+01:00) Albania(Tirane)	1	ALB
(UTC+01:00) Austria(Vienna)	1	AUT
(UTC+01:00) Belgium(Brussels)	1	BEL
(UTC+01:00) Croatia(Zagreb)	1	HRV

(UTC+01:00) Czech Republic(Prague)	1	CZE
(UTC+01:00) Denmark(Copenhagen)	1	DNK
(UTC+01:00) France(Nice, Paris)	1	FRA
(UTC+01:00) Germany(Berlin)	1	GER
(UTC+01:00) Hungary(Budapest)	1	HUN
(UTC+01:00) Italy(Rome)	1	ITA
(UTC+01:00) Luxembourg(Luxembourg)	1	LUX
(UTC+01:00) Macedonia(Skopje)	1	MAK
(UTC+01:00) Namibia(Windhoek)	1	NAM
(UTC+01:00) Netherlands(Amsterdam)	1	NLD
(UTC+01:00) Nigeria(Lagos)	1	NGR
(UTC+01:00) Norway(Oslo)	1	NOR
(UTC+01:00) Poland(Warsaw)	1	POL
(UTC+01:00) Serbia(Beograd)	1	YUG
(UTC+01:00) Slovakia(Bratislava)	1	SVK
(UTC+01:00) Slovenia(Ljubljana)	1	SVN
(UTC+01:00) Spain(Madrid, Palma)	1	ESP
(UTC+01:00) Sweden(Stockholm)	1	SWE
(UTC+01:00) Swiss(Bern, Zurich)	1	CHE
(UTC+01:00) United Kingdom(Gibraltar)	1	GIB
(UTC+01:00) West Africa Time	1	WAT
(UTC+02:00) Bulgaria(Sofia)	2	BGR
(UTC+02:00) Cyprus(Nicosia)	2	CYP
(UTC+02:00) Central Africa Time	2	CAT
(UTC+02:00) Egypt(Cairo)	2	EGY
(UTC+02:00) Estonia(Tallinn)	2	EST
(UTC+02:00) Finland(Helsinki)	2	FIN
(UTC+02:00) Gaza Strip(Gaza)	2	GAZ
(UTC+02:00) Greece(Athens)	2	GRC
(UTC+02:00) Israel(Jerusalem, Tel Aviv)	2	ISR
(UTC+02:00) Jordan(Amman)	2	JOR
(UTC+02:00) Latvia(Riga)	2	LVA
(UTC+02:00) Lebanon(Beirut)	2	LBN
(UTC+02:00) Moldova(Chisinau)	2	MDA
(UTC+02:00) Palestine(Gaza)	2	PAL
(UTC+02:00) Romania(Bucharest)	2	ROU
(UTC+02:00) Russia(Kaliningrad)	2	RUS
(UTC+02:00) South Africa(Johannesburg)	2	SAC
(UTC+02:00) Syria(Damascus)	2	SYR
(UTC+02:00) Ukraine(Kyiv, Odessa)	2	UKR
(UTC+03:00) Belarus(Minsk)	3	BLR
(UTC+03:00) East Africa Time	3	EAT
(UTC+03:00) Iraq(Baghdad)	3	IRQ
(UTC+03:00) Kuwait(Kuwait City)	3	AST
(UTC+03:00) Qatar(Doha)	3	QTR
(UTC+03:00) Russia(Moscow)	3	RUS
(UTC+03:00) Saudi Arabia(Riyadh)	3	KSA
(UTC+03:00) Turkey(Ankara, Istanbul)	3	TUR
(UTC+03:30) Iran(Tehran)	3:30	IRN
(UTC+04:00) Armenia(Yerevan)	4	ARM
(UTC+04:00) Azerbaijan(Baku)	4	AZE
(UTC+04:00) Georgia(Tbilisi)	4	GEO
(UTC+04:00) Russia(Samara)	4	RUS
(UTC+04:00) United Arab Emirates(Dubai)	4	UAE
(UTC+05:00) Kazakhstan(Aqtau)	5	KAZ1

(UTC+05:00) Kazakhstan(Aqtobe)	5	KAZ
(UTC+05:00) Pakistan(Islamabad)	5	PAK
(UTC+05:00) Russia(Chelyabinsk, Yekaterinburg)	5	RUS
(UTC+05:30) India(Calcutta)	5:30	IND
(UTC+05:45) Nepal(Kathmandu)	5:45	NPL
(UTC+06:00) Kazakhstan(Astana, Almaty)	6	KAZ
(UTC+06:00) Kyrgyzstan(Bishkek)	6	KGZ
(UTC+06:00) Russia(Novosibirsk, Omsk)	6	RUS
(UTC+06:30) Myanmar(Yangon)	6:30	MMT
(UTC+07:00) Russia(Krasnoyarsk)	7	RUS
(UTC+07:00) Thailand(Bangkok)	7	THA
(UTC+07:00) Vietnam(Ho Chi Minh City)	7	VTN
(UTC+08:00) Australia(Perth)	8	AUS
(UTC+08:00) China(Beijing, Hong Kong, Taipei)	8	CHN
(UTC+08:00) Singapore	8	SGP
(UTC+09:00) Japan(Tokyo)	9	JPN
(UTC+09:00) Korea(Seoul)	9	KOR
(UTC+09:30) Australia(Adelaide)	9:30	AUS
(UTC+09:30) Australia(Darwin)	9:30	AUS2
(UTC+10:00) Australia(Canberra, Sydney)	10	AUS
(UTC+10:00) Australia(Brisbane)	10	AUS2
(UTC+10:00) Australia(Hobart)	10	AUS3
(UTC+10:00) Russia(Vladivostok)	10	RUS
(UTC+10:30) Australia(Lord Howe Island)	10:30	AUS
(UTC+11:00) New Caledonia(Noumea)	11	NCL
(UTC+12:00) New Zealand(Wellington, Auckland)	12	NZL
(UTC+12:00) Russia(Anadyr, Kamchatka)	12	RUS
(UTC+12:45) New Zealand(Chatham Islands)	12:45	NZL
(UTC+13:00) Tonga(Nukualofa)	13	TON