

Statement on Human Rights and Privacy

ZKTECO Europe Srl, company organized under the laws of Spain, who are established and reputable manufacturer and solution provider of workforce management and integrated security systems based on RFID and multi-biometric technology, we are proud to pay strict attention to the compliance with the laws related to Human Rights and Data Protection Privacy in every country. Therefore, we hereby state the following

Declaration:

1. All of our multi-bio (fingerprint and facial) recognition devices for civil use only collect the characteristic points of multi-bio instead of the multi-bio images, and, therefore, no privacy issues are involved.
2. The characteristic points of multi-bio collected by our products cannot be used to restore the original multi-bio images, and, therefore, no privacy issues are involved.

■ **How Does ZK Fingerprint Optical Scanner Work?** The match is determined using points of interest (minutia) on the fingerprint, such as ridge bifurcations and ridge endings only these specific characteristics, which are unique to every fingerprint, are filtered and saved as an encrypted biometric key or mathematical representation. No image of a fingerprint is ever saved, only a series of numbers (a binary code), which is used for verification. The algorithm cannot be reconverted to an image, so no one can duplicate the fingerprint.

■ **How Does a ZK Facial Scanner Work?** The proportion of the orbit against its external side, the proportion of the length of the bridge of nose against the width of the wing of nose and so on—these proportional relations determined by the facial bones constitute numerous nodes. Statistical calculation is then conducted in accordance with these nodes to set up a data model and parse the face of a person into a matrix composed of numbers, which, in turn, are transformed into the language readable by the computer. In this way, the person's face is transformed into numbers with aid of the computer, which are calculated bit by bit and a group of characteristic data are finally extracted to express the entire face of the person. This group of data can also be called face lines. The face lines that are acquired are stored, compared,

searched and handled to constitute the major application fields for current facial technology. The face identification system measures these nodes in accordance with the rules to acquire images and produce a numeric code. A common face identification system needs the data of about 22 nodes to complete the identification process.

At last we stress once again that biometrics, as an advanced recognition technology, will be applied in a lot of sectors including e-commerce, banking, insurance and legal affairs. Every year people around the globe suffer from great loss due to the insecurity of passwords. The biometric products actually provide adequate protection for your identity under a high security environment.

REF.: Patent for the devices which have the facial and fingerprint identification function

- Patent for human face recognition online software development system
- Patent for master and slave face recognition device
- Software copyright registration
- Patent for face and fingerprint multimodal identification algorithm
- Patent for face and fingerprint T&A and access control device
- Patent for facial door lock
- Patent for face and fingerprint network encrypted device

ZKTECO Europe Srl.

R&D Center of ZKTeco.

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