

Precautions

TDM95E

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English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website
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If there is any issue related to the product, please contact us.

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About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the precaution of TDM95E product.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software	
Convention	Description
Bold font	Used to identify software interface names e.g. OK, Confirm, Cancel
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	Description
<>	Button or key names for devices. For example, press <OK>
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window
/	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].

Symbols






Convention	Description
	This implies about the notice or pays attention to, in the manual
	The general information which helps in performing the operations faster
	The information which is significant
	Care taken to avoid danger or mistakes
	The statement or event that warns of something or that serves as a cautionary example.

Table of Contents

1	INSTALLATION ENVIRONMENT	7
2	NOTE FOR USE	8



1 Installation Environment

Please follow the instructions carefully before installation.

Used indoors and in the environment of no wind with temperature between 15 ~ 35°C. Do not point the temperature measuring camera at direct sunlight or any high-temperature source.



INDOOR USE



KEEP DISTANCE



AVOID GLASS REFLECTION



AVOID DIRECT SUNLIGHT EXPOSURE

1. The equipment installation needs to be far away from the magnetic field equipment, and is suitable for indoor working environment (constant temperature). When testing indoors, try to avoid direct light and avoid installing the equipment in places where there is wind or large air flow such as air conditioning vents.
2. Make sure to use it in indoor constant temperature environment to avoid sudden temperature changes caused by abnormal environment.
3. The use of TDM95E USB temperature measuring box should try to avoid the presence of reflective objects/high temperature heat sources. For example: glass, ceramic tile, metal and automobile, etc..
4. Do not aim the lens at strong light sources, and high-temperature targets such as the sun and incandescent lamps, to avoid direct sunlight, otherwise it will cause damage to the lens or thermal imaging detector, resulting in normal temperature measurement.
5. The temperature can only be measured 30 minutes after the device is powered on.

2 Note for Use

The temperature measuring products use thermal-based infrared array of sensors. Hence, the installation and operating environment must be within the recommended range and away from any heat source. Otherwise, it will affect the infrared temperature measurement accuracy, resulting in temperature and operational abnormalities.

Please read the precautions before using the TDM95E Temperature Detection Module products.

The installation requirements and indicators related to the temperature measurement are given below:

Items	Standard value	Remark
Environment	Indoor, no wind, no direct light 15 to 35°C(59 to 95°F)	Recommended temperature 25°C (77°F)
Distance (between palm and device)	3 to 5cm (0.098ft- 0.164ft)	The recommended distance is 3 cm (0.098ft)
Measurement Accuracy	±0.3°C(±0.54°F)	The value is measured at a test distance of 3cm and the ambient temperature is 25°C (at 3cm, the error is ±0.3°C)

Note:

- After vigorous exercise, the palm of your hand sweats directly to test, which will cause the temperature measurement value to be low.
- During the test, there should be no steam, dust, smoke, etc. blocking the lens, otherwise it will affect the temperature measurement effect.
- The temperature measurement data of the device is only used as a reference, not as a medical basis.
- This product cannot be used to measure objects.
- This product is not a medical product equipment, only used for abnormal temperature screening.
- The **Restore** button on the back of the device is a manual temperature measurement key, used for calibration and debugging.
- The display shows **o** as the surface object mode, press **Reset** once to switch.
- The display shows **n** as the ambient temperature mode, press **Reset** twice to switch.
- Long press the reset button to switch to Fahrenheit/Celsius. After switching, the temperature needs to be measured once before power off. If temperature measurement is not triggered after switching, the switching mode cannot be saved.

- The temperature measurement range of the device is 32-42°C. If the measuring temperature is lower than 25°C or greater than 50°C, it will display Err, which is not within the measurement range of the device.
- Temperature 25-32 degrees shows **Lo**, low temperature is abnormal.
- Temperatures above 41.9 degrees Celsius indicate abnormal **H1** high temperatures.
- The ambient light intensity is lower than 800LX, and the ideal working environment is below 300LX. If the light intensity is higher than 800LX, the machine will automatically measure or cannot measure the temperature, and damage the photosensitive element.
- Hot-swap is not supported, you need to restart after connecting the device.
- When connecting to the T&A device and A&C device, after inserting the module, the temperature must be measured twice, otherwise the module cannot work normally and needs to be restarted.
- If the T&A device and A&C device have no backup power supply, the device needs to be re-initialized after power failure, that is, it can be used normally only after measuring the temperature twice.

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