Operating Instruction

Column Type Temperature Initial Screener

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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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The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on http://www.zkteco.com

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 operations of Column Type Temperature Initial Screener.

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   <u>Safety Instructions</u>

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 products.

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

Items	Standard value	Remark
Environment	Indoor, no wind 10 to 35℃(60.8 to 89.6°F)	At low temperature (2 to 10℃) and high temperature (35 to 40℃), the temperature measurement accuracy is low, and compensation is required
Distance (between face and device)	4cm	The recommended distance is 4 cm
Measurement Accuracy	±0.3℃(±0.54°F)	This value is the result of testing under standard working environment

2 Installation Instructions

Please follow the instructions carefully before installation.

Used indoors and in the environment of no wind with temperature between 10 ~ 35°C. Do not point

the temperature measuring camera at direct sunlight or any high-temperature source.

INDOOR USE   KEEP DISTANCE   AVOID GLASS   AVOID DIRECT
                                           REFLECTION   SUNLIGHT
                                                                EXPOSURE

1. The effective temperature measurement range of the device is 60° up and down, left and right, and a coverage range of 1m distance. Within this range, there should be no reflective objects. Such as glass, smooth tiles, metal, etc. The reflective objects must be places away at 5m from the product to avoid measurement errors.
2. Do not install multiple temperature measuring devices close to each other in the same direction. You need to form an angle to prevent light interference between the modules; ±60 degrees left and right, within 1m.
3. Users are advised to wait for a moment while taking a temperature measurement after coming out of the sun, or in a hot/cold room.

3 <u>Overview</u>

The principle is infrared sensor with non-contact detection to screen that whose temperature is above normal standard.

The equipment is suitable for crowded places such as supermarket, business hall, subway, bus station, railway station, court, prison, detention house and so on.

Parameters

Technical standards	
External Power Supply	110V~230V
Frequency Rate	50/60 Hz
Power Consumption	15 W
Working Environment	10℃ ~ 35℃, 15-90%RH
Operating Frequency	Adjust according to installation environment
Total Weight of Transport	16.1 Kg

4 Main Menu

Press the power button on the main chassis panel to switch on and off the machine, the screen will display as shown below.
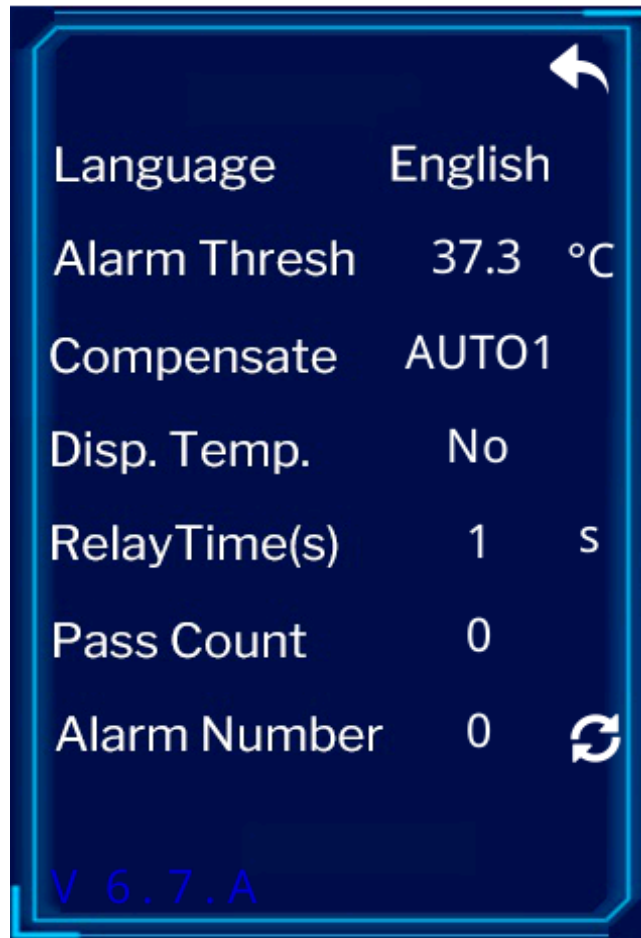

Figure 1

- **Language:** A total of eight languages, English, Spanish, Italian, French, German, Polish, Romanian, and Czech, can be set to switch.

- **Alarm Thresh:** Displayed alarm temperature which can be set by users.

- **Compensate:** It is adjusted according to the site environment temperature to return the desired result and doesn't provide wrong interpreted temperature due to the external environment. The site management personnel should adjust according to the actual situation of the site.

- **Disp.Temp.:** Displayed measure temperature which can be set by users.

- **Relay Time(s):** The displayed delay seconds can be set by the user.

- **Pass Count:** The number of person's passes the device.

- **Alarm Number:** The number of times alarm is raised when the threshold temperature exceeds.

5　Alarm Thresh

In the main interface, if the alarm thresh needs to be adjusted, just press the value of the alarm thresh and modify it directly. The password is "0000". As shown in figure 2.
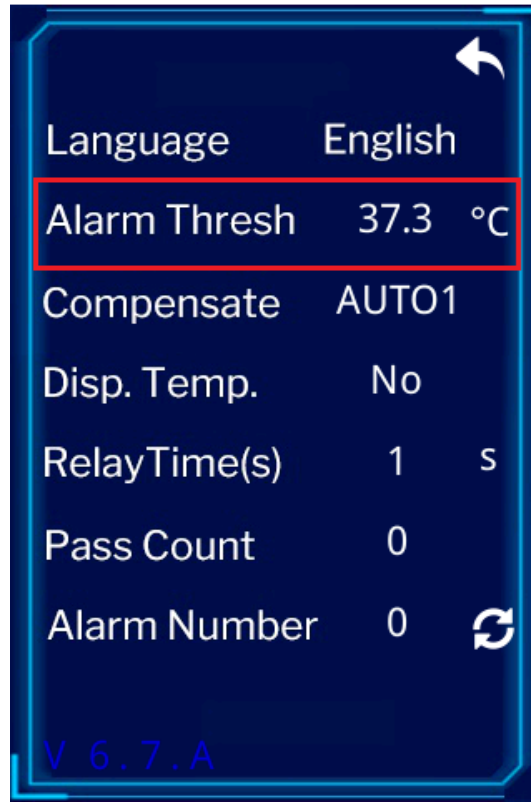

Figure 2

5　Alarm Thresh

6 Compensate

● **Auto Compensation**

Enter 0 for automatic compensation, and the parameter is displayed as "AUTO" + the value of compensation parameter currently automatically adjusted, as shown in figure 3. It needs to be turned off and restarted to update the auto temperature compensation.
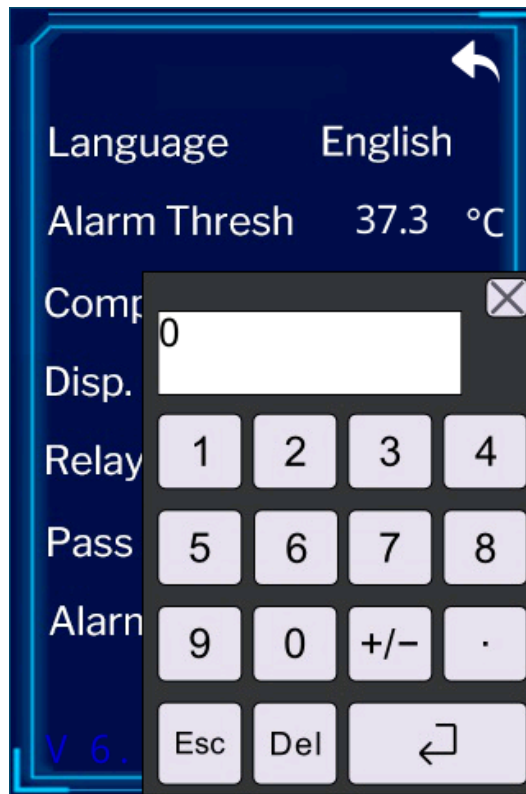

Figure 3

● **Manual Compensation**

Enter 1 for manual compensation, and then manually adjust the current set compensation value which ranges from 0 to 8, as shown in figure 4. It needs to be turned off and restarted to update the manual temperature compensation.
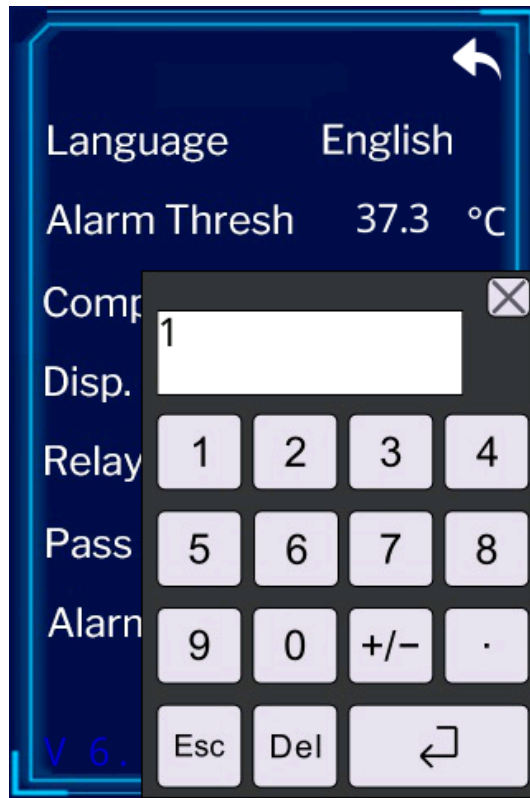
Figure 4

● **Gears Measuring Compensation**

Adjust the gears for measuring the temperature compensation parameters. Use 0 grade when the ambient temperature is low. As the ambient temperature rises, the gears are adjusted up accordingly, up to 8 grades. For 15-17℃ （0,1 grade）, 18-24℃ （2,3 grade）, 24-28℃ （4,5 grade）, 28-30℃ （6,7 grade） and for above 30℃ (8 grade). The on-site personnel adjusts it according to the actual situation. As shown in figure 5.
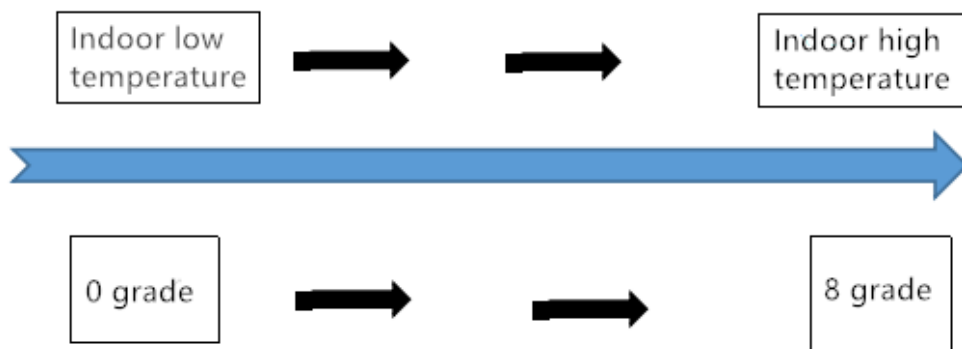

Figure 5

7   Temperature Interface

The interface of normal detected temperature and abnormal detected temperature respectively.

8   Clear Record

Press the main screen interface and enter the password and press Confirm to clear the record. The password is "0000". Figure 6 (Click the blank input field to modify)
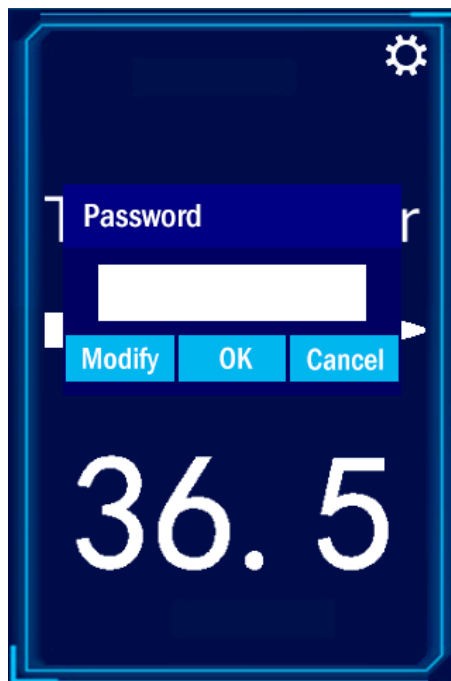

Figure 6

9   Change Password

If the password needs to be changed or in any password input interface, after entering the correct original password, press the "Change" button on the screen, then enter the new password and press the "Confirm" button on the screen to update the new password, as shown in FIG. 7 and switch to FIG.8.
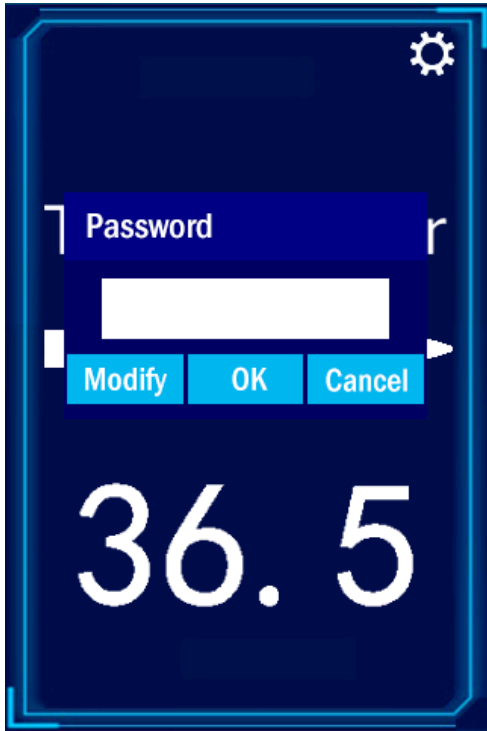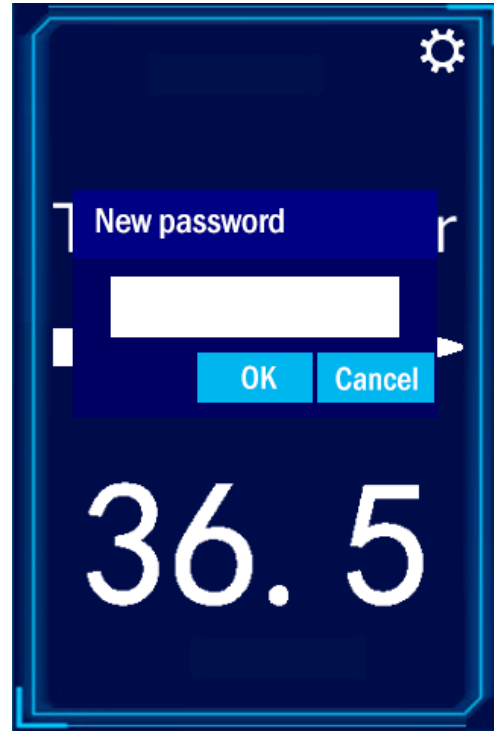

Figure 7   Figure 8

Precautions

1. The equipment adopts industrial-grade infrared temperature measurement module with the temperature accuracy of $\pm$0.3℃. It is recommended to use the equipment in the indoors with environment temperature of 10℃-35℃.

2. The accuracy of temperature detection is affected by the surrounding environment as well as the detection distance. The recommended temperature detection distance is 2-4 cm.

3. This product is a preliminary temperature screening device, not an accurate medical diagnosis device. The test results only reflect the preliminary temperature assessment of the body surface.

4. For the preliminary screening results, the relevant units should re-check the results by other temperature measuring equipment to ensure reliability.

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