ZKTeco

Quick Start Guide

SpeedFace - V5L[TD]

Version: 1.0

Overview

Thermal infrared temperature measurement module

Flash

Camera & Palm collector

Microphone ★

5" touchscreen

Fingerprint sensor

Magnetic tamper switch

Speaker

Reset

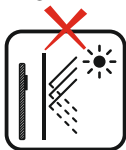|									
12V	Power in	RXD2			TX+		AUX		Auxiliary input
GND		TXD2	RS232		TX-		GND		
		GND		Ethernet	RX+		SEN		Sensor
+12V		RXD			RX-		GND		
GND		TXD	RS232				BUT		Exit Button
IWD0	Wiegand in	GND					NO1		
IWD1		485A	RS485				COM		Lock
WD0	Wiegand out	485B					NC1		
WD1							AL+		Alarm
							AL-		

Note: Not all products have the function marked with ★ , the real product shall prevail.

Installation Environment

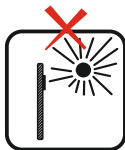Please refer to the following recommendations for installation.

INSTALL INDOORS ONLY	AVOID INSTALLATION NEAR GLASS WINDOWS	AVOID DIRECT SUNLIGHT AND EXPOSURE	AVOID USE OF ANY HEAT SOURCE NEAR THE DEVICE

Recommended Palm Gestures
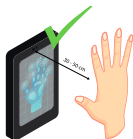
|				
KEEP EFFECTIVE DISTANCE OF 30-50 cm	KEEP SPACES BETWEEN YOUR FINGERS	DO NOT KEEP YOUR FINGERS CLOSE	DO NOT KEEP PALM OUTSIDE COLLECTION AREA	DO NOT KEEP YOUR FINGERS FOLD/CURLED
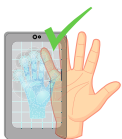
Note:

1. Place your palm within **30-50 cm** of the device.
2. Place your palm in the palm collection area, such that the palm is placed parallel to the device.
3. Make sure to keep space between your fingers.

Recommended Standing Position
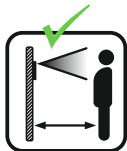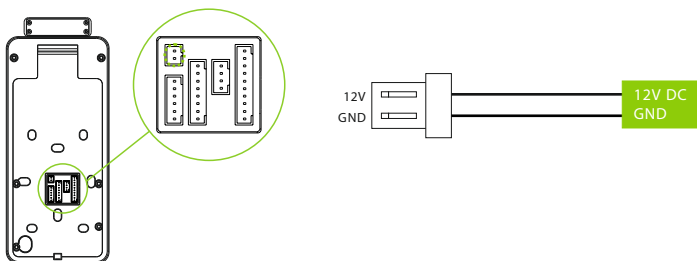
KEEP EFFECTIVE DISTANCE OF 0.3-2m

Device Installation
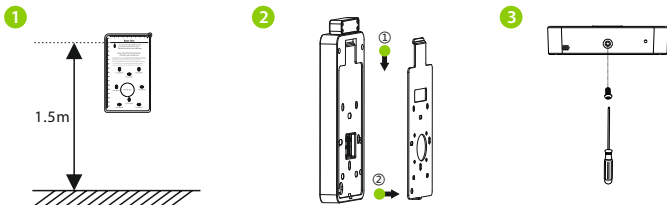
① Attach the mounting template sticker to the wall, and drill holes according to the mounting paper. Fix the back plate on the wall using wall mounting screws.
② Attach the device to the back plate.
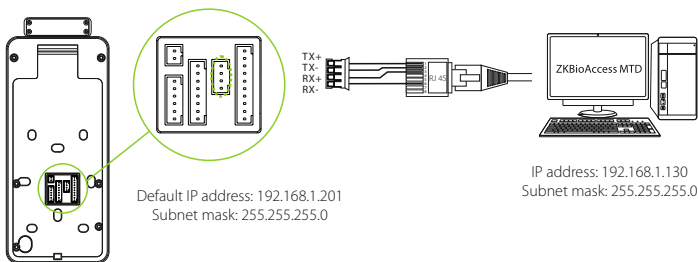③ Fasten the device to the back plate with a security screw.

Standalone Installation
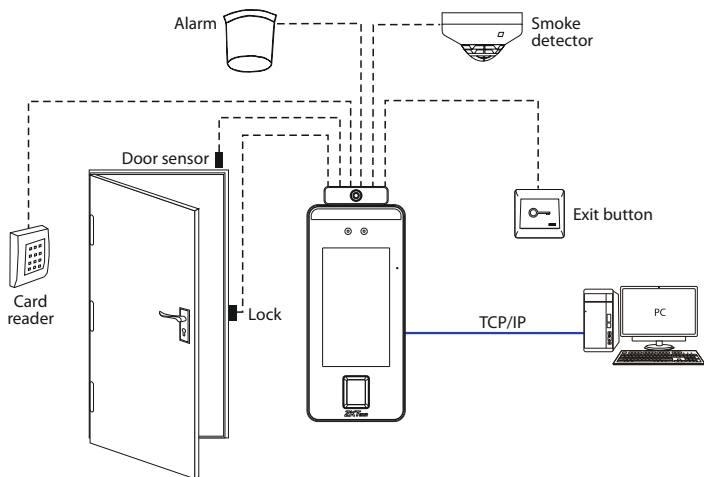
Power Connection

Recommended power supply

1) 12V ± 10%, at least 3000mA.
2) To share the power with other devices, use a power supply with higher current ratings.

Ethernet Connection

Default IP address: 192.168.1.201
Subnet mask: 255.255.255.0

IP address: 192.168.1.130
Subnet mask: 255.255.255.0

Click [**COMM.**] > [**Ethernet**] > [**IP Address**] , input the IP address and click [**OK**].

Note: In LAN, IP addresses of the server (PC) and the device must be in the same network segment when connecting to ZKBioAccess MTD software.
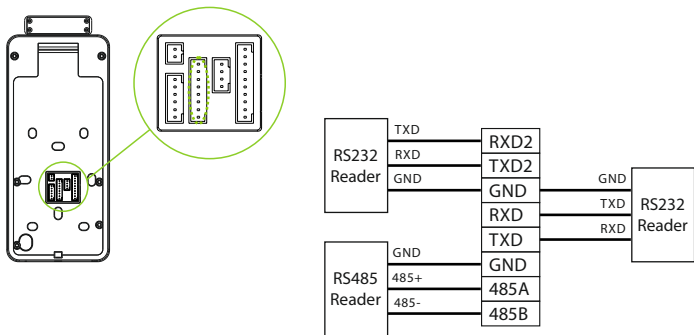
Wiegand Reader Connection

Wiegand card reader connects to the top 4 pins of the wiegand terminal and the last two pins are used by the Access controller, as shown in the following figure. It sends the credentials to the device via wiegand communication.
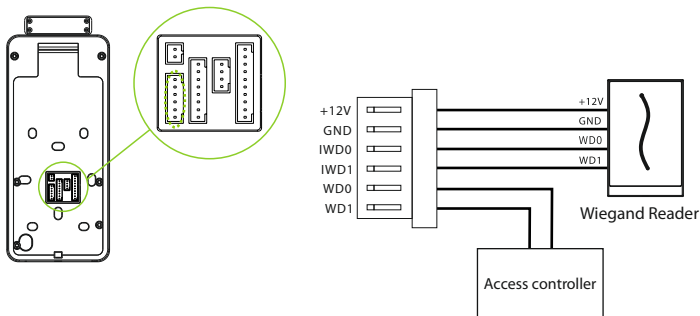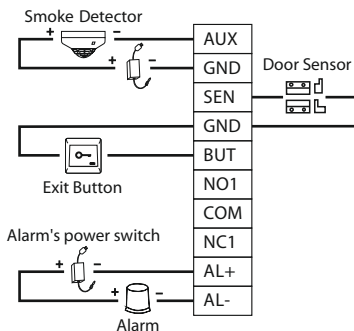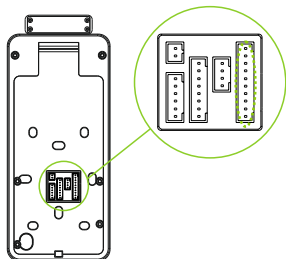

RS485 and RS232 Connection

The RS485 and the RS232 lets user connect to multiple readers to the device. Two RS232 and one RS485 can be connected to the terminal, as shown in the figure below.

Door Sensor, Exit Button & Alarm Connection

	AUX	
Smoke Detector	GND	Door Sensor
	SEN	
	GND	
Exit Button	BUT	
	NO1	
	COM	
Alarm's power switch	NC1	
	AL+	
	AL-	

Alarm

Lock Relay Connection

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO Lock** (normally opened when powered) is connected with '**NO1**' and '**COM**' terminals, and the **NC Lock** (normally closed when powered) is connected with '**NC1**' and '**COM**' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below:

1) Device not sharing power with the lock
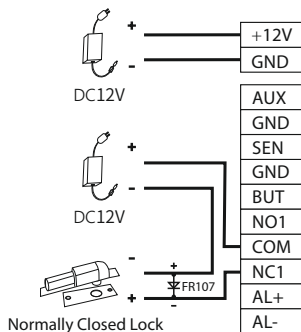
2) Device sharing power with the lock
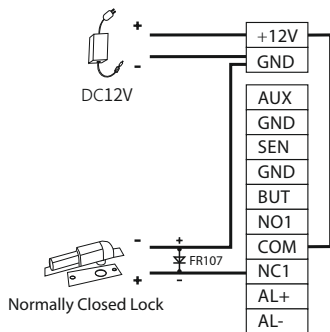
User Registration

When there is no super administrator set in the device, click on ☰ to enter the menu. Add a new user and set User Role to Super Admin, then the system will request for the administrator's verification before entering the menu. It is recommended to register a super administrator initially for security purposes.

Method 1: Register on the device

Click on ☰ > [**User Mgt.**] > [**New User**] to register a new user. The options include entering the user ID and Name, setting User Role, registering Palm, Fingerprint, Face, Password, Card (optional), and adding User Photo.
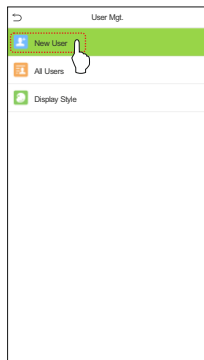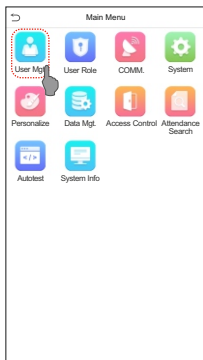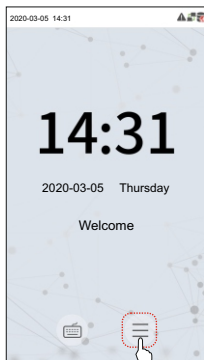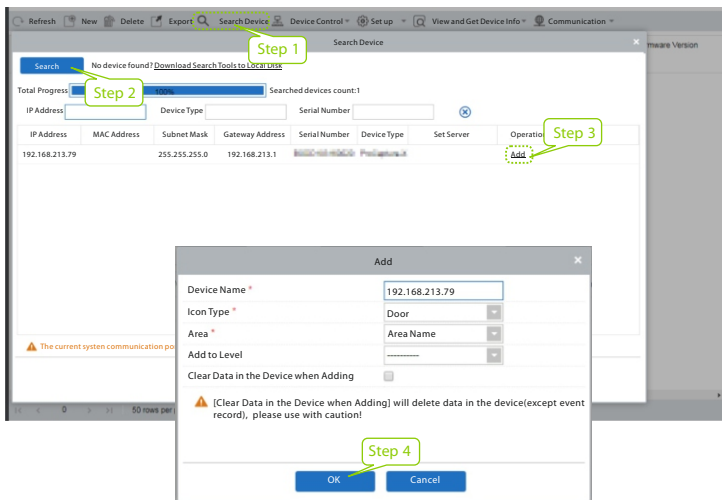
Method 2: Register on ZKBioAccess MTD software

Please set the IP address and cloud service server address in the Comm. Menu option on the device.

1. Click [**Access**] > [**Access Device**] > [**Device**] > [**Search Device**] to search the device on the software. When an appropriate server address and port is set on the device, the searched devices are displayed automatically.

2. Click [**Add**] in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdowns and click [**OK**] to add the device.

3. Click [**Personnel**] > [**Person**] > [**New**] and fill in all the required fields to register a new users in the software.

4. Click [**Access**] > [**Device**] > [**Device Control**] > [**Synchronize All Data to Devices**] to synchronize all the data to the device including the new users.

For more details, please refer to the ZKBioAccess MTD User Manual.

Method 3: Register on the phone

Once the ZKBioAccess MTD software is installed, the users could enroll their face via a browser application on their own mobile phone.

1. Click [**Personnel**] > [**Parameters**], input "http://Server address: Port" in the QR Code UGL bar. The software will automatically generate a QR code. Scan the QR code or login onto "http://Server address: Port/app/v1/adreg" by the mobile phone to register users.
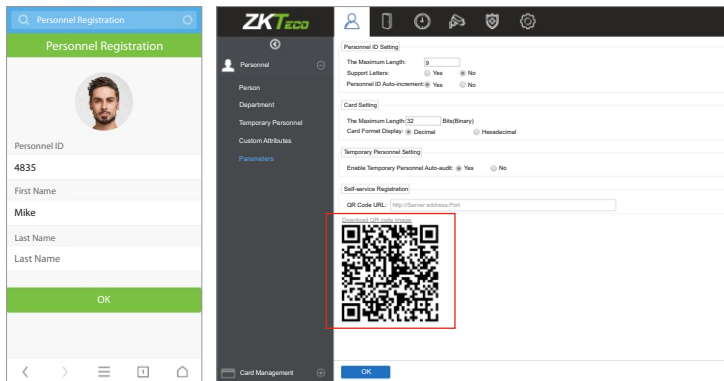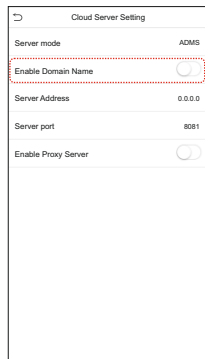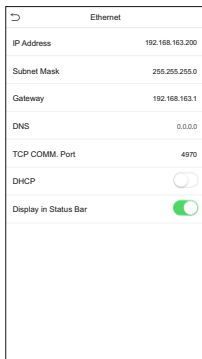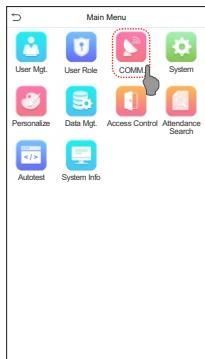

2. The users will be displayed in [**Personnel**] > [**Temporary Personnel**], click on [**Review**] option and assign a department and click [**OK**] to successfully add the user.
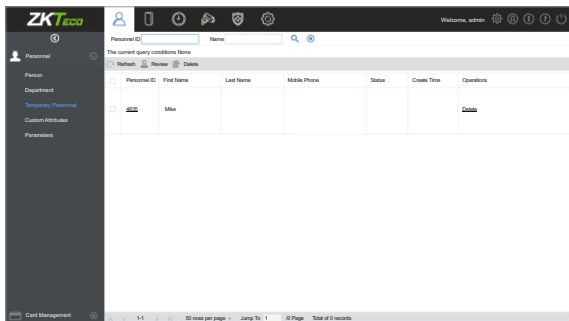
Ethernet and Cloud Server Settings

Click on ☰ > [**COMM.**] > [**Ethernet**] to set the network parameters. If the TCP/IP communication of the device is successful, the icon 🖧 will be displayed in the upper right corner of the standby interface.

Click on ☰ > [**COMM.**] > [**Cloud Server Setting**] to set the server address and server port, that is, the IP address and port number of the server after the software is installed. If the device communicates with the server successfully, the icon 🗄 will be displayed in the upper right corner of the standby interface.

⤺	Main Menu
👤 User Mgt.	🛡 User Role	💬 COMM.	⚙ System
🎯 Personalize	📊 Data Mgt.	🚪 Access Control	📋 Attendance Search
🔲 Autotest	🖥 System Info		

⤺	Ethernet
IP Address	192.168.163.200
Subnet Mask	255.255.255.0
Gateway	192.168.163.1
DNS	0.0.0.0
TCP COMM. Port	4970
DHCP	⚪
Display in Status Bar	🟢

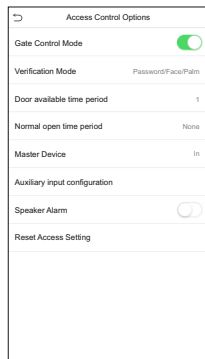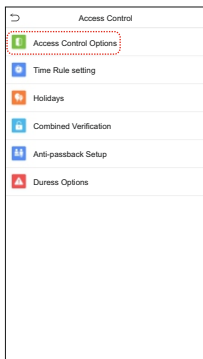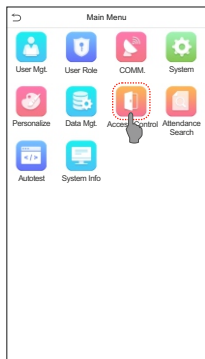| ⤺	Cloud Server Setting
Server mode	ADMS
Enable Domain Name	⚪
Server Address	0.0.0.0
Server port	8081
Enable Proxy Server	⚪

Note:

While pairing the device with ZKBioAccess MTD software. Make sure that the option **Enable Domain Name** is disabled and the correct server address and port are entered.

Server address: Set as the IP address of the ZKBioAccess MTD server.

Server port: Set as the service port of ZKBioAccess MTD (the default is 8088).
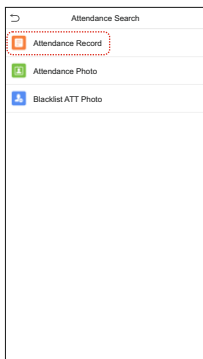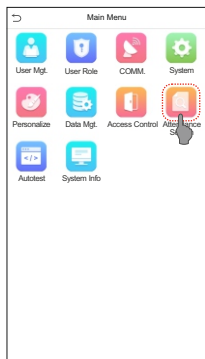
Access Control Setting

Click on ≡ > [**Access Control**] to enter the access control management interface and set relevant parameters of access control.

Main Menu	Access Control	Access Control Options
User Mgt. User Role COMM. System / Personalize Data Mgt. Access Control Attendance Search / Autotest System Info	Access Control Options / Time Rule setting / Holidays / Combined Verification / Anti-passback Setup / Duress Options	Gate Control Mode / Verification Mode — Password/Face/Palm / Door available time period — 1 / Normal open time period — None / Master Device — In / Auxiliary input configuration / Speaker Alarm / Reset Access Setting

Attendance Record

Click on ≡ > [**Attendance Search**] > [**Attendance Record**] to enter the records query interface, input the user ID and select the time range, the corresponding attendance logs will be displayed.

Main Menu	Attendance Search	Personal Record Search
User Mgt. User Role COMM. System / Personalize Data Mgt. Access Control Attendance S... / Autotest System Info	Attendance Record / Attendance Photo / Blacklist ATT Photo	

Personal Record Search

Date	User ID	Access records
03-03		Number of Records:04
	4	11:25
	2	11:25 11:22
	3	11:25
03-04		Number of Records:04
	1	11:29
	3	11:29 11:21
	2	11:28
	4	11:26
03-05		Number of Records:04
	1	11:27
	4	11:27
	3	11:27
	2	11:27

Detection Management Settings

Click on ☰ > [**System**] > [**Detection Management**] to enter the setting interface.

❶ You can set the value of **High temperature alarm threshold**, and enable the **Temperature over the range; access denied** and the **Trigger external alarm**, the device will send an alarm prompt when the temperature of the user detected exceeds the set value, and the user will be forbidden to access. You can also enable **Mask detection** the same.

❷ When the **Allow unregistered people to access** is enabled, you can also set **Enable capture of unregistered person** to save the temperature data.
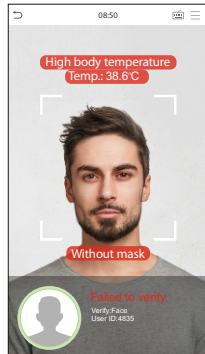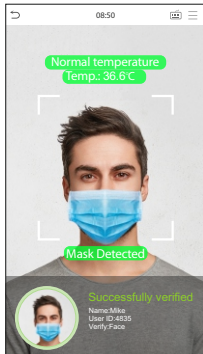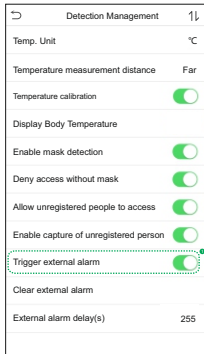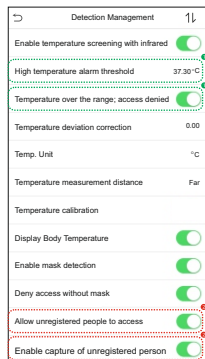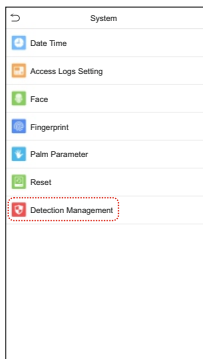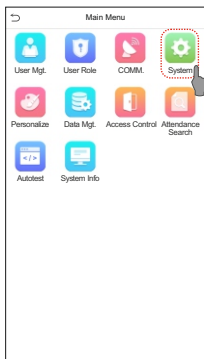
Precautions

1. The effective distance for temperature detection is within 30-50 cm for palm and 0.3-2m for face.
2. It is recommended for indoor use only.
3. The temperature measurement data is for reference only, and not for medical use.
4. Remove the mask while registering the face, and wear the mask while recognizing the face. The type of mask and the size of the face covered by the mask will affect the facial recognition process.
5. Facial verification for masked individuals may increase FAR, thus Palm verification for masked individuals is recommended.

Effective distance

Effective distance:
- Temperature: 30-50cm
- Palm: 30-50cm
- Face: 0.3-2m
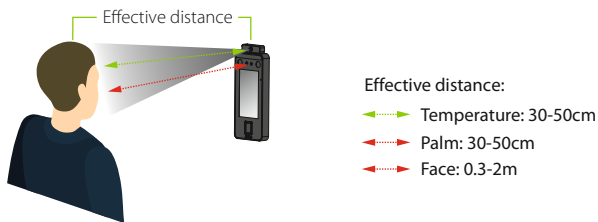
## Real-time monitoring on the ZKBioAccess MTD software

Once the ZKBioAccess MTD software is installed, users can perform several monitoring operations:

1. Please set the IP address and cloud service server address on the device and add the device to the software.
2. Click [**Temperatur Detection**] > [**Temperature Management**] > [**Real-time monitoring**] to view all the personnel's events present under the Abnormal Temperature, No Masks, and Normal Records.

   The user data of abnormal body temperature is displayed on the Abnormal Temperature information bar automatically according to the **Temperature Threshold Setting** is set.
3. Click [**Temperature Management**] > [**Statistics Panel**] to view the analysis of statistical data in the form of a pie-chart and view the personnel with normal temperature, abnormal temperature, and unmeasured body temperature. Also, detailed information of the personnel can be seen on the right by clicking on the particular category on the pie-chart.

Real-Time Monitoring
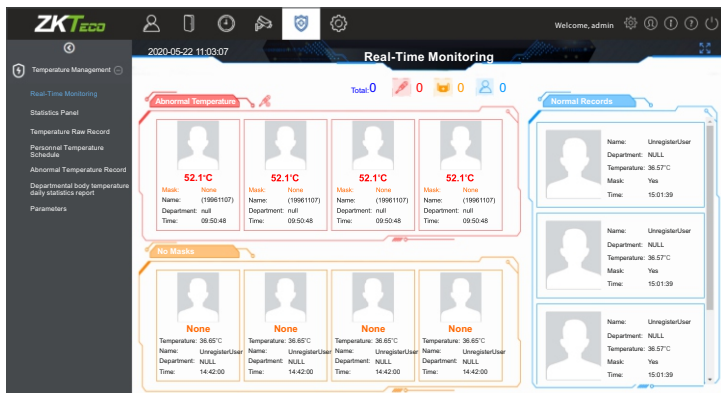
Statistics Panel
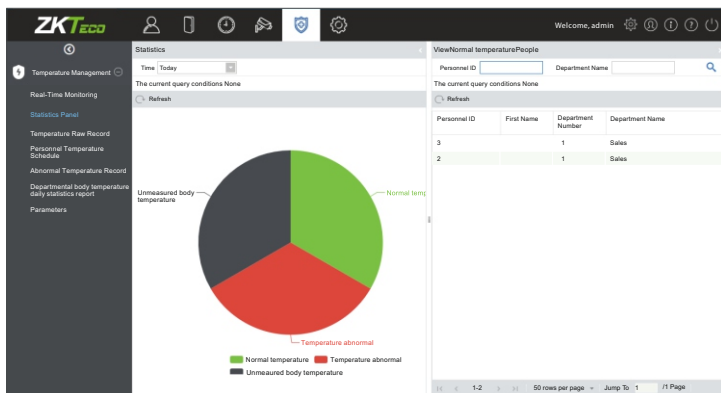
For more details, please refer to the ZKBioAccess MTD User Manual.

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　　　　 Whitefield Main Road, Beside Phoenix Mall,

　　　　 Mahadevapura, Bangaluru - 560048, Karnataka, India.

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