Quick Start Guide

SF1005-V+

Version: 1.0

Overview

Thermal infrared temperature measurement module

Flash

Camera & Palm collector

Microphone ★

5" touchscreen

Fingerprint sensor & Card reading area ★

Magnetic tamper switch

Speaker   Reset

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

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

Installation Environment

Please refer to the following recommendations for installation.
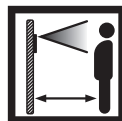

INDOOR USE

AVOID GLASS REFRACTION
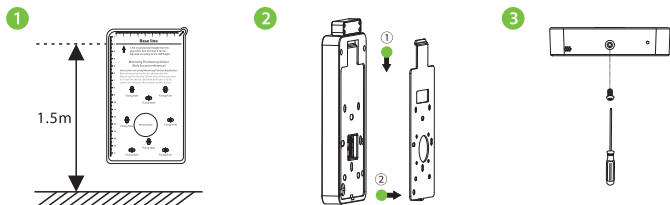
AVOID DIRECT SUNLIGHT AND EXPOSURE
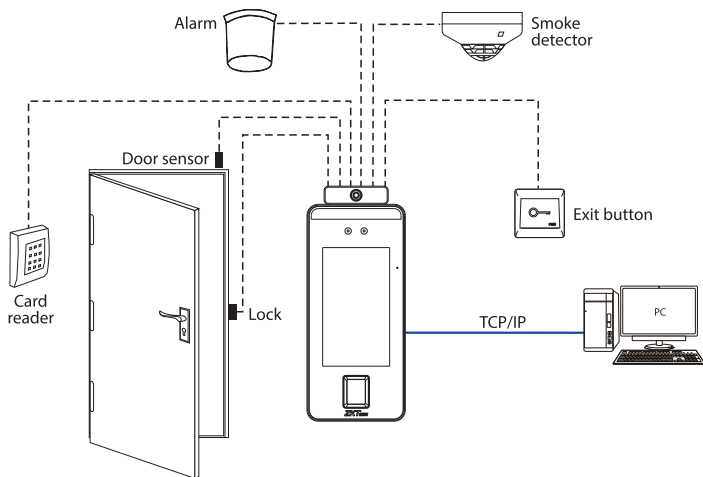
FAR AWAY HEAT SOURCE
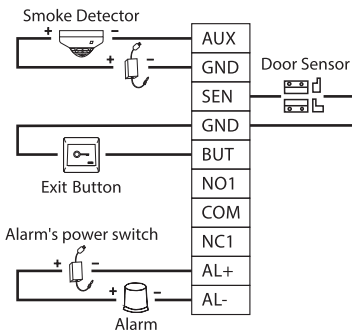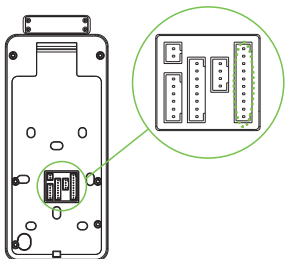
KEEP EFFECTIVE DISTANCE 20-50cm

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

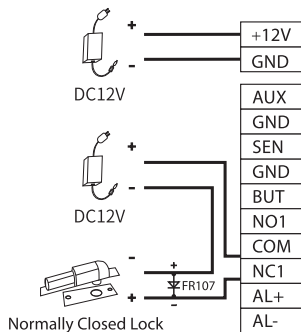# Door Sensor, Exit Button & Alarm Connection

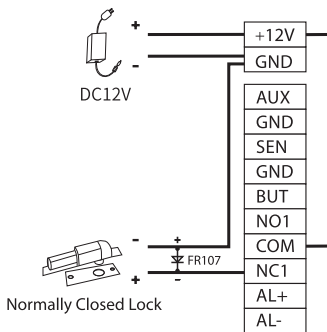|	
AUX	
GND	Door Sensor
SEN	
GND	
BUT	
NO1	
COM	
NC1	
AL+	
AL-	

Smoke Detector

Exit Button

Alarm's power switch

Alarm

Lock Relay Connection

The system supports Normally Opened Lock and Normally Closed Lock.
The NO LOCK (normally opened at power on) is connected with 'NO1' and 'COM' terminals, and the NC LOCK (normally closed at power on) is connected with 'NC1' and 'COM' terminals. Take NC Lock as an example below:
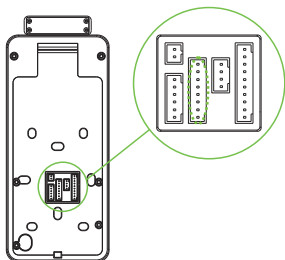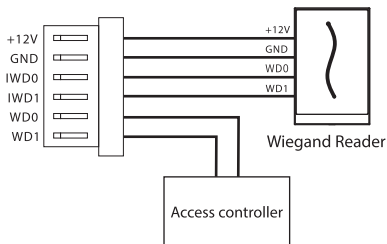
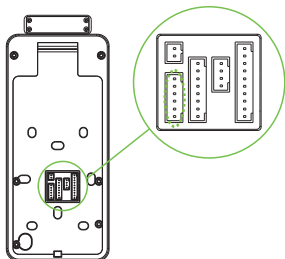1) Device not sharing power with the lock

+12V
GND

DC12V

AUX
GND
SEN
GND
BUT
NO1
COM
NC1
AL+
AL-

DC12V

FR107

Normally Closed Lock

2) Device sharing power with the lock

+12V
GND

DC12V

AUX
GND
SEN
GND
BUT
NO1
COM
NC1
AL+
AL-

FR107

Normally Closed Lock

RS485 and RS232 Connection

RS232 Reader		
TXD	RXD2	
RXD	TXD2	
GND	GND	GND
	RXD	TXD
	TXD	RXD

RS485 Reader		
GND	GND	
485+	485A	
485-	485B	

RS232 Reader
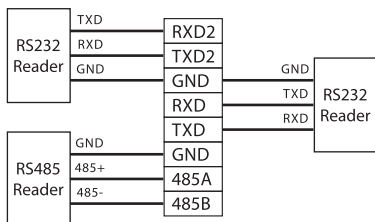
Wiegand Reader Connection

+12V
GND
IWD0
IWD1
WD0
WD1

+12V
GND
WD0
WD1

Wiegand Reader

Access controller
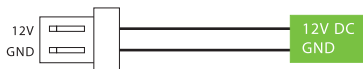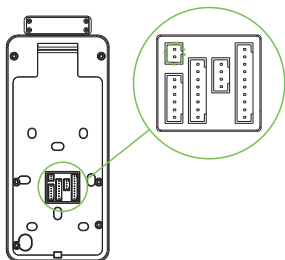
Power Connection

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
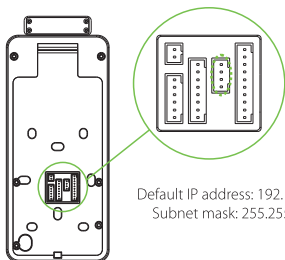
Default IP address: 192.168.1.201
Subnet mask: 255.255.255.0
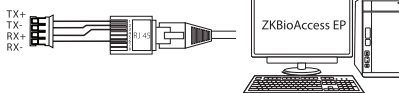
IP address: 192.168.1.130
Subnet mask: 255.255.255.0

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 EP software.

User Registration

When there is no super administrator set in the device, click on ☰ to enter the menu. After setting the super administrator, the system will request for the administrator's verification before entering the menu. For the security purpose, it is recommended to register a super administrator at the first time you use the device.

Method 1: Register on the device

Click on ☰ > [**User Mgt.**] > [**New User**] to register a new user. Settings include entering user ID and name, registering a palm, fingerprint, face, password, badge (optional) and user photo, setting user role.
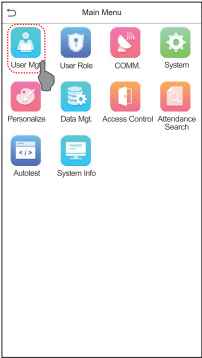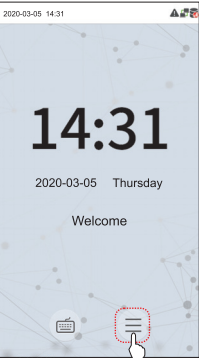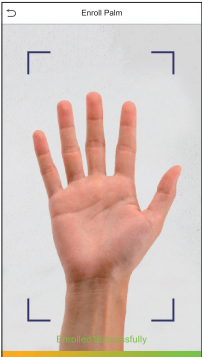
Method 2: Register on ZKBioAccess EP software

Please set the IP address and cloud service server address on the device.

1. Click [**Access**] > [**Access Device**] > [**Device**] > [**Search Device**] to add the device to the software.
When the device has set the server address and port, it can be added automatically.
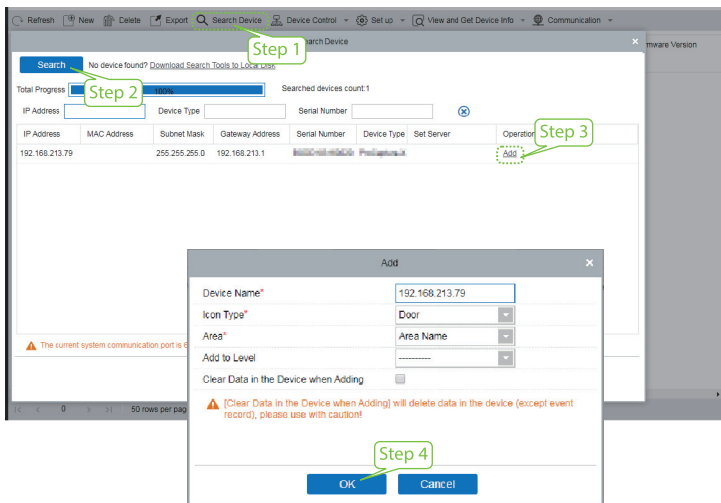
2. Click [**Personnel**] > [**Person**] > [**New**] to register users in the software.

3. Add users to access levels.

4. Click [**Access**] > [**Device**] > [**Device Control**] > [**Synchronize All Data to Devices**].
For more details, please refer to the ZKBioAccess EP User Manual.

Method 3: Register on the phone

Once ZKBioAccess EP software installed, users could enroll face via 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 generates a QR code. Scan the QR code or login onto "http://Server address:Port/app/v1/adreg" by the mobile phone to register users.
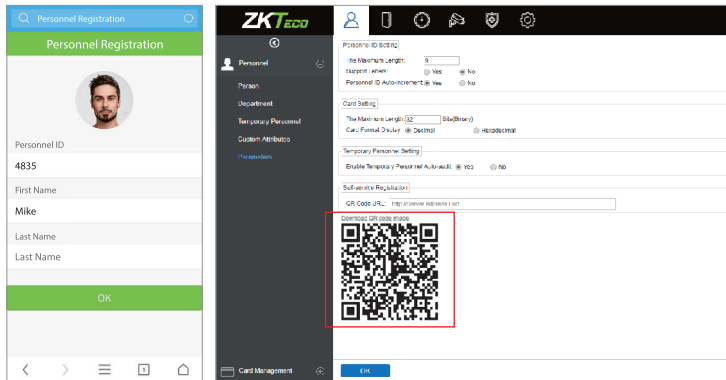

2. The users will display in [**Personnel**] > [**Temporary Personnel**], click [**Review**].
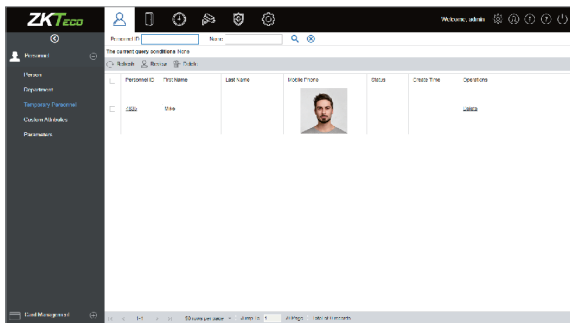
# Ethernet and Cloud Server Settings

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.
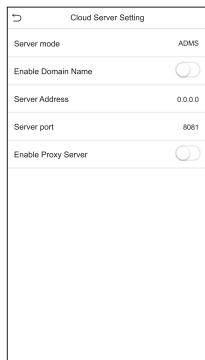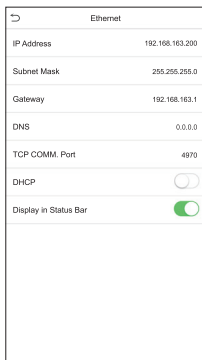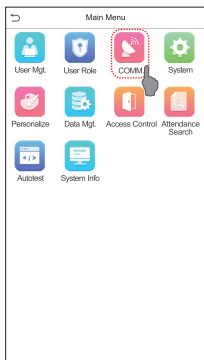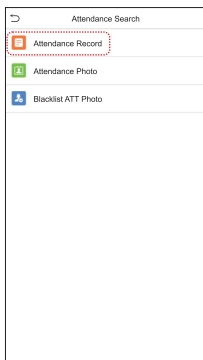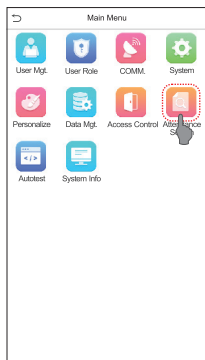

Access Control Settings

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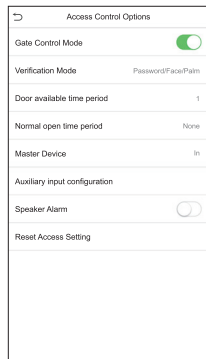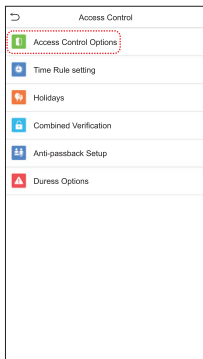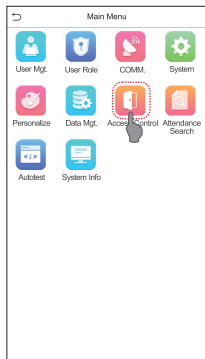
Records Query

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.

Detection Management Settings

Click on ☰ > [**System**] > [**Detection Management**] to enter the detection management interface. You can set the value of **High temperature alarm threshold.** The device will send an alarm prompt when the temperature of the user detected exceeds this value. When the **Temperature over the range; access denied** is enabled, the user will be forbidden to access, as shown in the following figure.
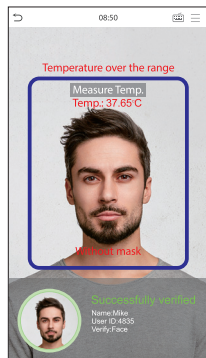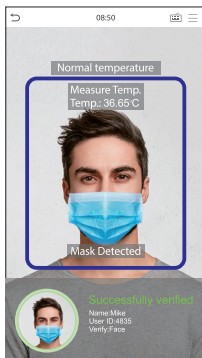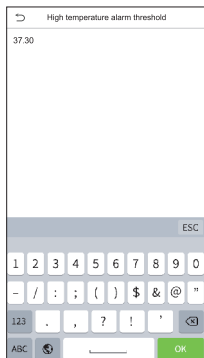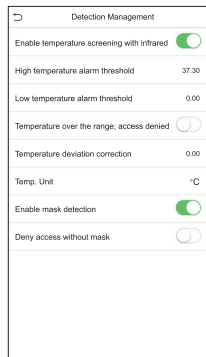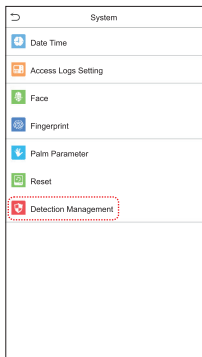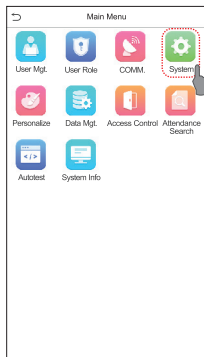
Notes:

1. The effective distance for temperature detection is within 50cm.

2. Recommended for indoor use.

3. Temperature measurement data is for reference only, not for medical use.

4. Remove the mask to register the face, wear a mask to recognize the face, the type of mask, the size of the face covered by the mask, and bangs will affect the facial recognition effect.

5. Facial verification for masked individuals will increase FAR. Palm verification for masked individuals is recommended.

Effective distance

Effective distance:
Temperature: 20-50cm
Face & Palm: 20-50cm
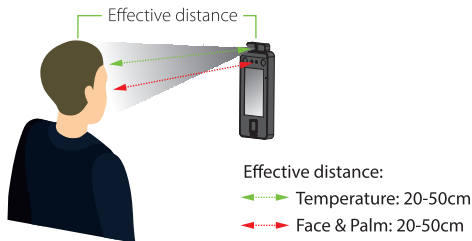
Real-time monitoring on the ZKBioAccess EP software

Once ZKBioAccess EP software installed, users could perform epidemic management on browser.

Please set the IP address and cloud service server address on the device and add the device to the software.

1. Click [**Prevention**] > [**Epidemic**] > [**Real-time monitoring**] to view all the events include the user whose temperature is over the range.
When the **Alarm temperature setting** has set, the abnormal body temperature will be marked red automatically.
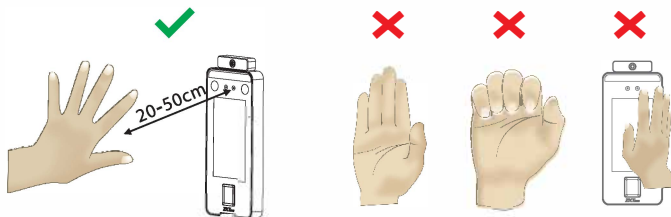
2. Click [**Epidemic**] > [**Statistics panel**] to view the analysis of statistical data and view the personnels with normal temperature.
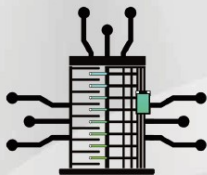
As shown in the following figure.
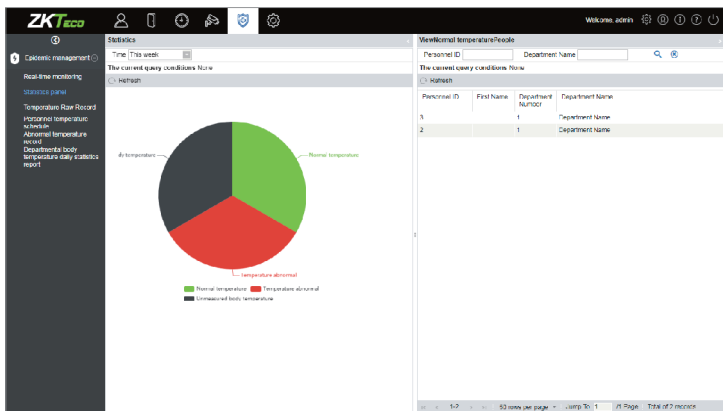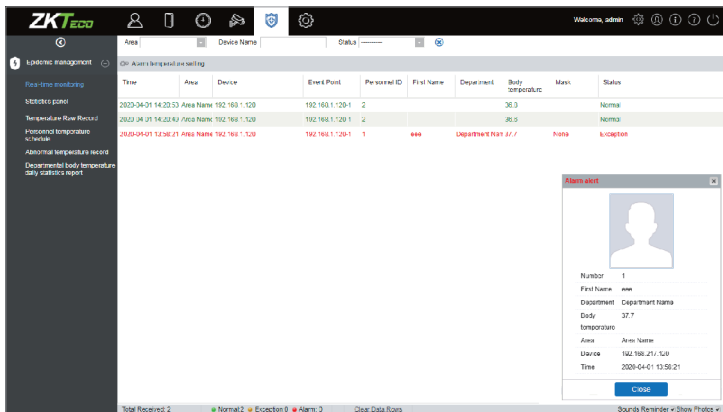
For more details, please refer to the ZKBioAccess User Manual.

Note for Palm Registration and Verification

Notes:

1. Place your palm within **20-50cm** 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.