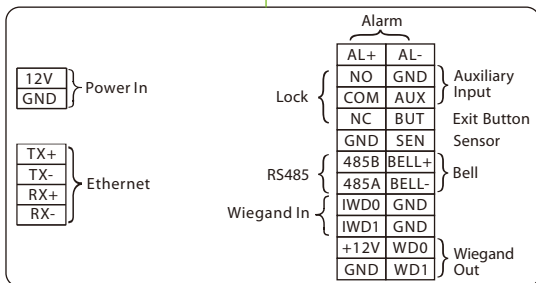
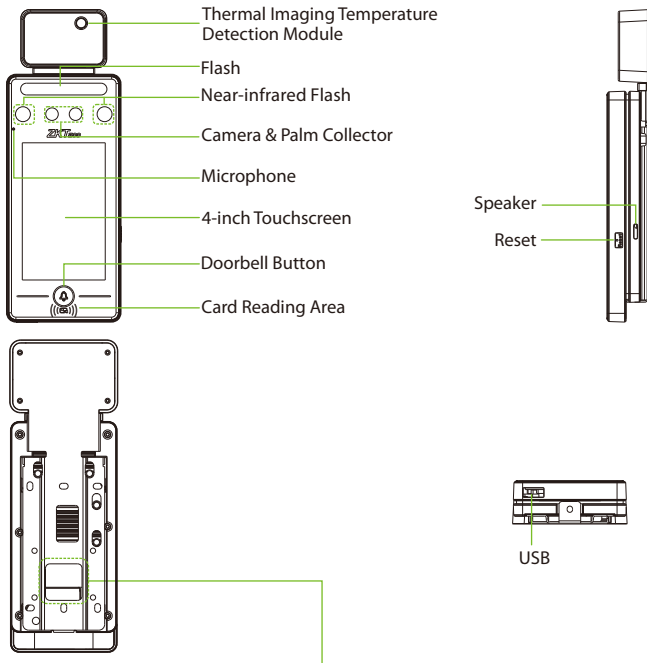


Quick Start Guide

4-inch Thermal Imaging Product

Version: 1.0

Overview



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

Installation Environment

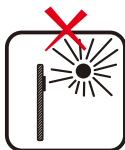
Please refer to the following recommendations for installation.



INSTALL INDOORS
ONLY



AVOID INSTALLATION
NEAR
GLASS WINDOWS

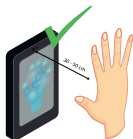


AVOID DIRECT
SUNLIGHT
AND EXPOSURE



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
0.3m-2m

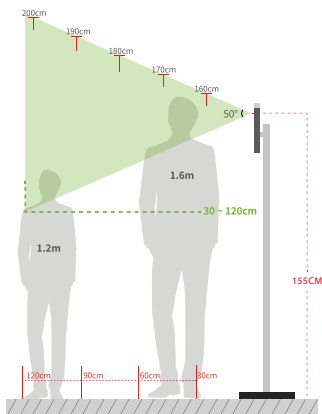
Installation Requirements

The installation requirements and indications associated with the device are given below:

Specification	Standard value	Remark
Operating Environment	Indoor, Avoid wind, Avoid direct sunlight, 16°C to 35°C (60.8°F to 95°F)	The recommended operating temperature is 25°C (77°F)
Distance (between face and device)	30cm to 120cm (0.98ft to 3.94ft)	The recommended distance is 80cm (2.62ft)
Measurement Accuracy	$\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$)	This value is tested at a distance of 80cm or 2.63ft under 25°C (77°F) environment.

Note: The temperature measurement data is only for reference, and not for any medical purposes.

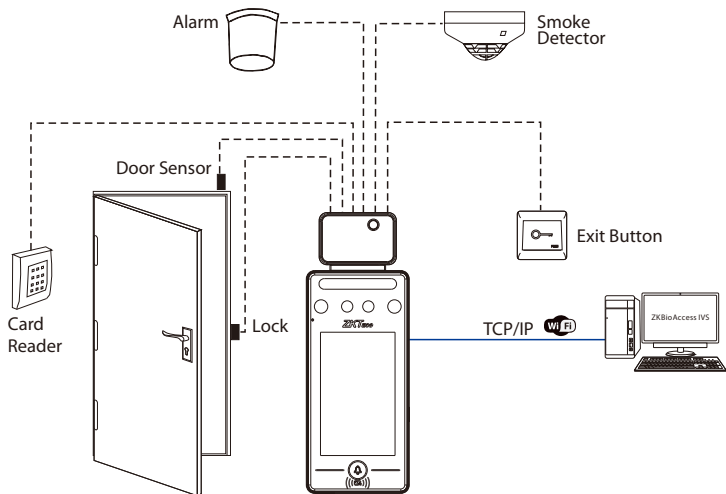
Forehead Temperature Detection



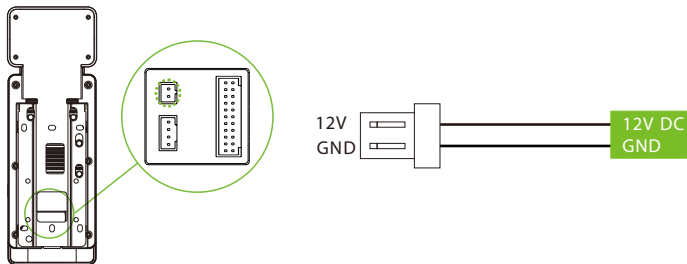
Indoor constant Temperature Environment

- Installation height: 1.55m
- FOV (Field Of View) of the thermal imaging device: 50°
- Temperature detection distance: 0.3m to 1.2m
- Height of the face adapted for detection: 1.2m to 2m

Standalone Installation



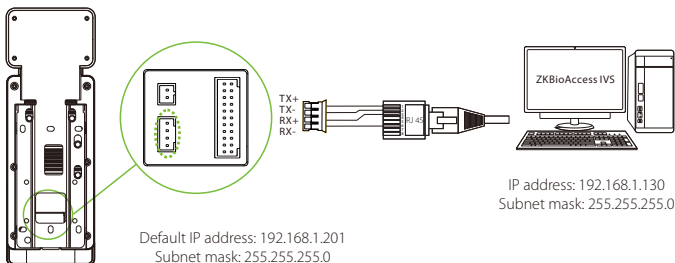
Power Connection



Recommended AC Adapter

- 1) $12V \pm 10\%$, at least 3000mA.
- 2) To share the power with other devices, use an AC Adapter with higher current ratings.

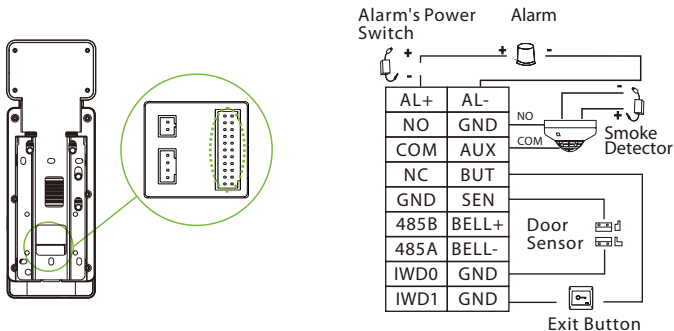
Ethernet Connection



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 IVS software.

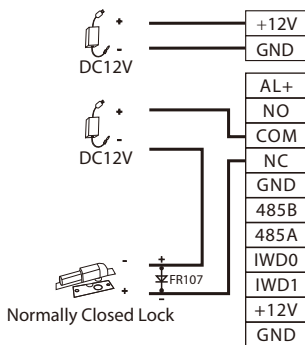
Door Sensor, Exit Button & Alarm Connection



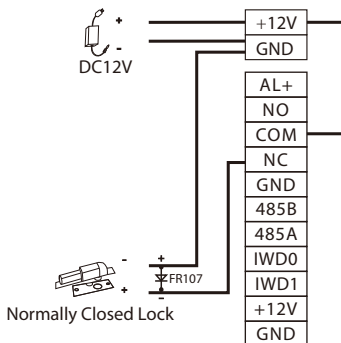
Lock Relay Connection

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

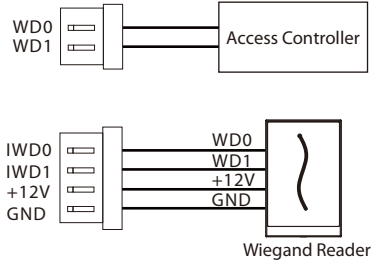
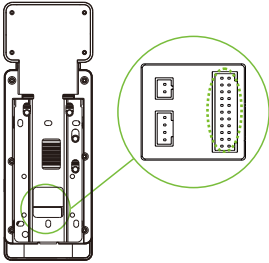


2) Device sharing power with the lock



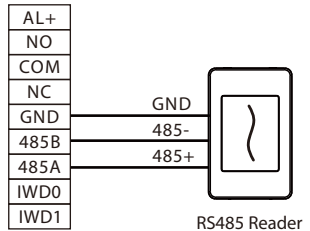
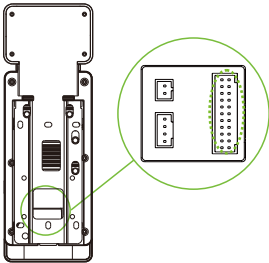
Wiegand Reader Connection

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 Connection

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

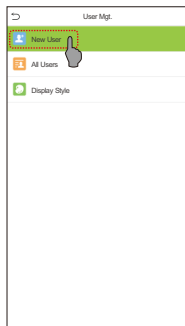
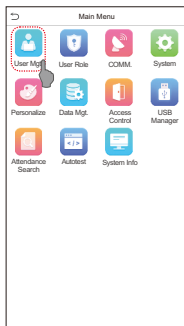
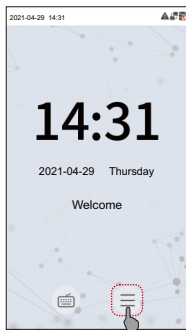


User Registration

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, Face, Card Number, Password and adding Profile Photo.



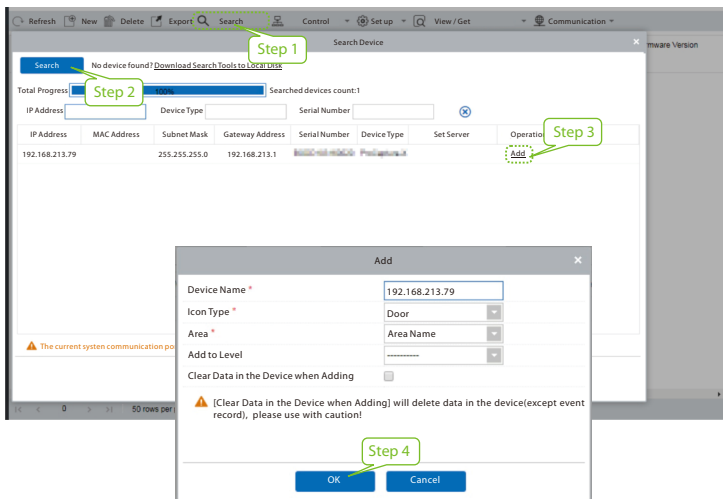
User ID	1
Name	Mike
User Role	Normal User
Palm	1
Face	1
Card Number	1
Password	*****
Profile Photo	1
Access Control Role	



Method 2: Register on ZKBioAccess IVS 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]** 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]** > **[Control]** > **[Synchronize All Data to Devices]** to synchronize all the data to the device including the new users.

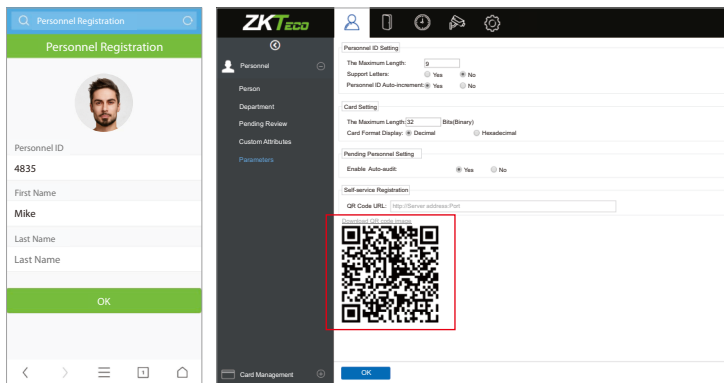
For more details, please refer to the *ZKBioAccess IVS User Manual*.

Note: If the device has optional dynamic QR code function, you need to use the ZKBioSecurity to connect the device and perform the corresponding operation to support the QR code function.

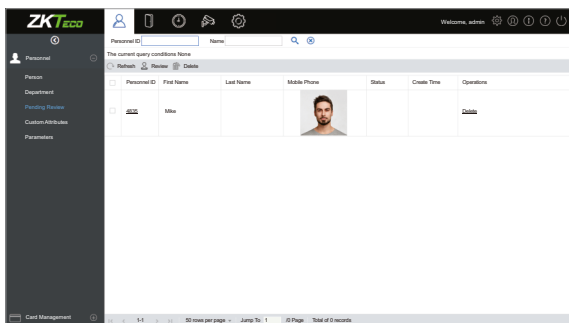
Method 3: Register on the phone

Once the ZKBioAccess IVS 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.





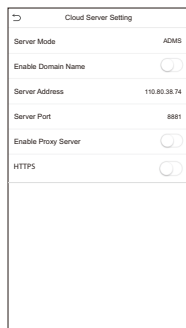
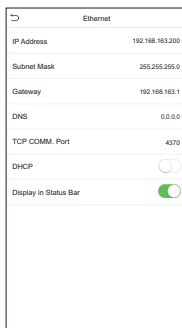
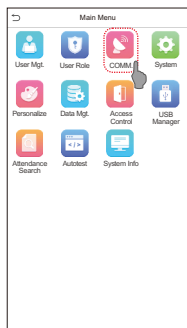
2. The users will be displayed in **[Personnel]** > **[Pending Review]**, click on **[Review]** option and assign a department and click **[OK]** to successfully add the user.



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.



Note:

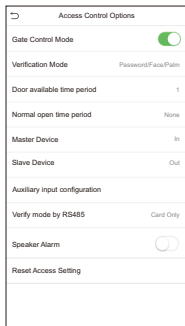
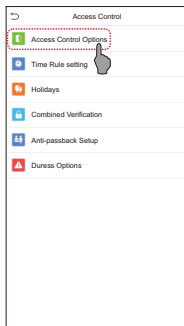
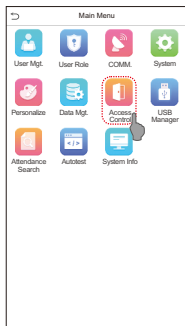
While pairing the device with ZKBioAccess IVS software. Make sure that the option **Enable Domain Name** is disabled and the correct server address and port are entered.

Server Address: Set as the IP address of the ZKBioAccess IVS server.

Server Port: Set as the service port of ZKBioAccess IVS (the default is 8881).

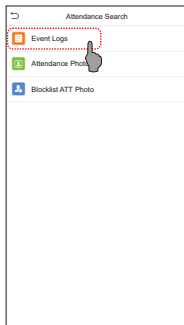
Access Control Setting

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



Attendance Record

Click on ☰ > [Attendance Search] > [Event Logs] to enter the logs query interface, input the user ID and select the time range, the corresponding event logs will be displayed.



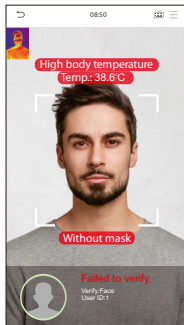
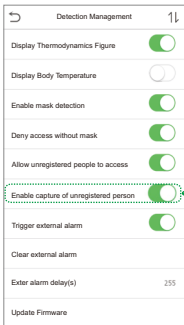
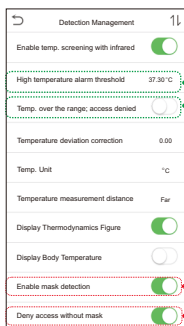
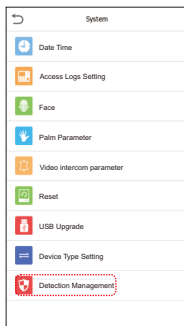
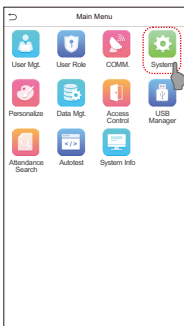
Personal Record Search

Date	User ID	Time
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

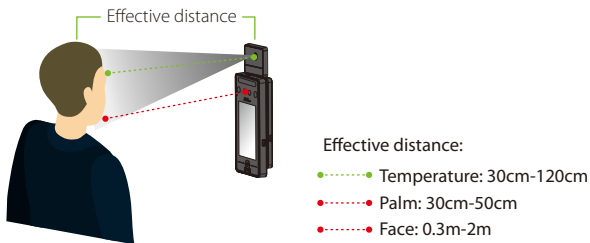
Click on  > [System] > [Detection Management] to enter the setting interface.

- 1 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, meanwhile the user will be forbidden to access, as shown in the following figure. The method of enabling **Mask detection** is also the same.
- 2 When **Allow unregistered people to access** is enabled, optionally, set **Enable capture of unregistered person** to save the temperature data.



Note:

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



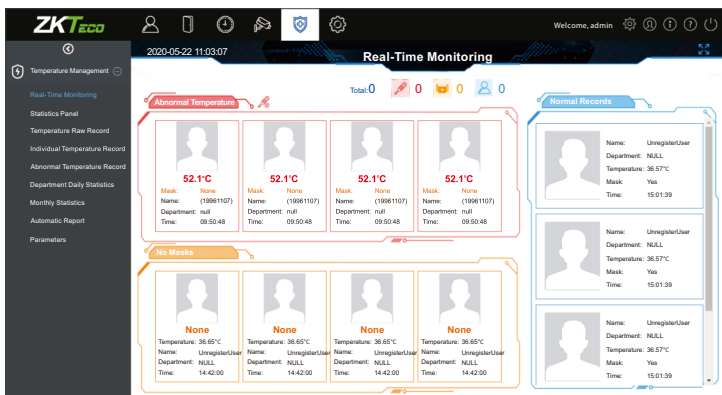
Real-time monitoring on the ZKBioAccess IVS software

Once ZKBioAccess IVS software installed, users could perform temperature detection management on browser.

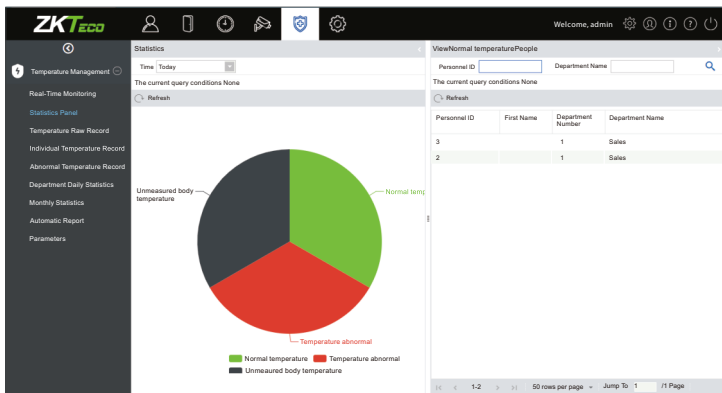
1. Set the IP address and cloud service server address on the device and add the device to the software.
2. Click **[Temperature Detection]** > **[Temperature Management]** > **[Real-time Monitoring]** to view all the events include the Abnormal Temperature, No Masks and Normal Records.
3. Click **[Temperature Management]** > **[Statistics Panel]** to view the analysis of statistical data and view the personnel with normal temperature.

As shown in the following figure.

Real-Time Monitoring



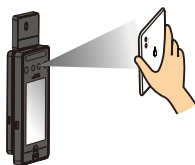
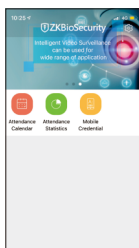
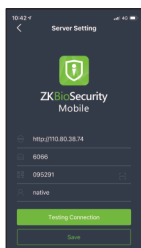
Statistics Panel



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

QR Code as the Mobile Credential ★

1. In [System] > [Basic Management] > [Parameters] of ZKBioSecurity software, set **Enable QR Code** to "Yes", and select the QR code status according to the actual situation.
2. On the server, choose [System] > [Authority Management] > [Client Register] to add a registered App client.
3. Open the APP, enter the IP address or domain name of the server, and its port number, scan the Register QR-code. After the connection is successful, tap on Employee to switch to the Employee Login screen. Enter the Employee ID and Password (Default: 123456) to login.
4. Tap [Mobile Credential] on the APP, and a QR code will appear. Place the phone screen right in front of the device QR code scanner. For details, please refer to the *4-inch Thermal Imaging Product User Manual*.



Note:

1. Place your phone within **15-50cm** of the device (distance depends on the size of the phone screen and the density of the QR code). Do not block the camera and the QR code.
2. For more details of Dynamic QR Code, please refer the *ZKBioSecurity Mobile APP User Manual*.

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