

User Manual Notus

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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 www.zkteco.com.

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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 operations of **Notus** Product, a smart video intercom door station with fingerprint and dual-frequency RFID card readers.

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 Device			
Convention	Description		
<>	Button or key names for devices. For example, press <ok>.</ok>		
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.		
1	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.
\triangle	The statement or event that warns of something or that serves as a cautionary example.

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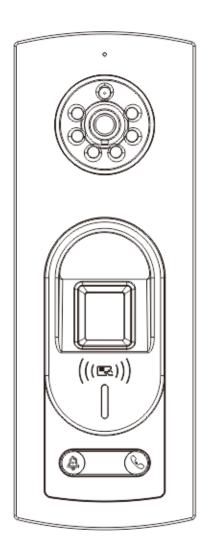
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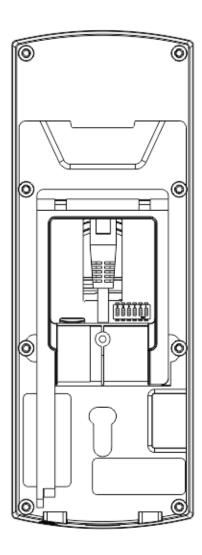
1 Overview

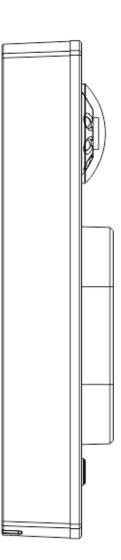
Notus is a Fingerprint access control device with an HD camera (2 MP/1080p) to support video intercom function. The ZSmart app supports two-way audio and one-way video communication. The Notus will also support remote unlock with password, capturing images and video recordings.

1.1 Appearance

Front and Rear View



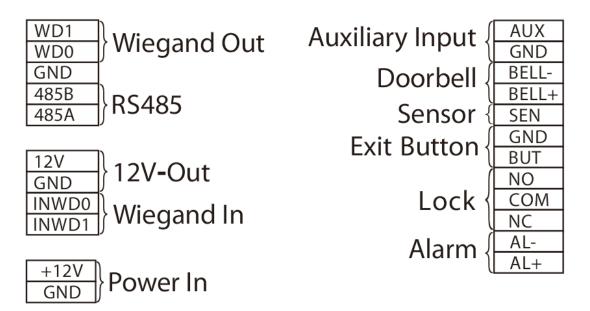




1.2 System Specifications

Category	Feature	Description
Credentials	Biometrics	Fingerprint
Credentials	Card	ID, IC/HID (optional)
Environment	Operating Temperature	0°C to 45°C (32°F to 113°F)
Environment	Operating Humidity	20% to 80% RH
Connectivity	Wi-Fi	Supported
	Maximum Transaction Records	200,000
Capacity	Maximum no. of Users (1: N)	50,000
capacity.	Maximum no. of Cards	50,000
	Maximum no. of Fingerprints	10,000
Power	-	12V, 3A

1.3 Product PIN Diagram

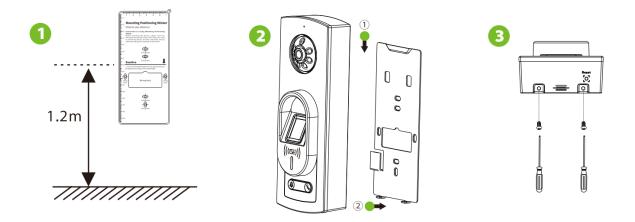


1.4 Installation Set-up

1.4.1 Installation Site

This product is suitable for a semi-outdoor environment. Please install it in an environment without direct sunlight exposure. Also, avoid installing the device near glass doors and windows.

1.4.2 Installation Steps



Step 1: Attach the mounting template sticker to the wall, and drill holes according to the mounting paper. Fix the backplate on the wall using the wall mounting screws.

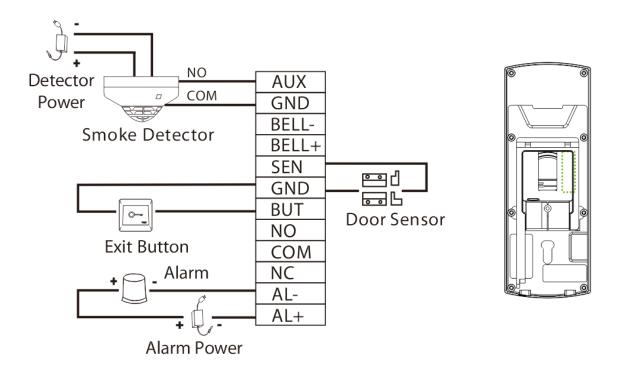
- **Step 2:** Attach the device to the backplate.
- **Step 3:** Fasten the device to the backplate with two security screws.

1.5 Connection Procedure

1.5.1 Auxiliary Devices and Buttons Connection

- Connect the Exit Button to the GND and BUT terminals.
- Connect the **Door Sensor** to the **SEN** and **GND** terminals.
- Connect the **Alarm** to the **AL** + and **AL** terminals.
- Connect the Auxiliary Device to the GND and AUX terminals.

The illustration is given below.

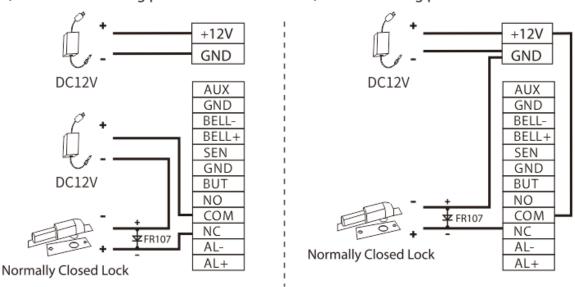


1.5.2 Lock Relay Connection

The device supports normally opened and normally closed conditions.

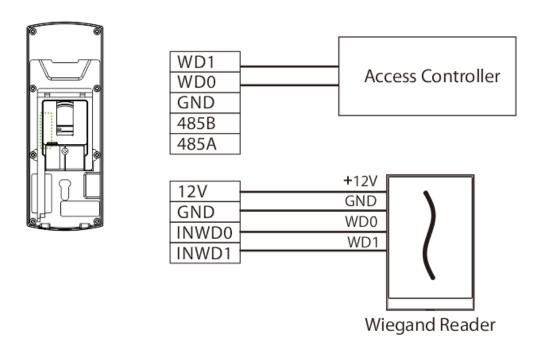
The Normally Opened Lock (normally opened at power on) is connected with 'NO1' and 'COM' terminals, and the Normally Closed Lock (normally closed at power on) is connected with 'NC1' and 'COM' terminals.

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

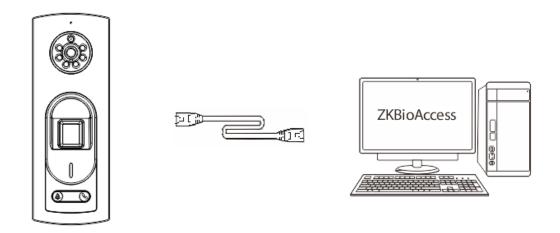


1.5.3 Weigand Reader Connection

Connect the **IWD0**, **IWD1**, **GND**, and + 12V terminals to the Weigand Reader.

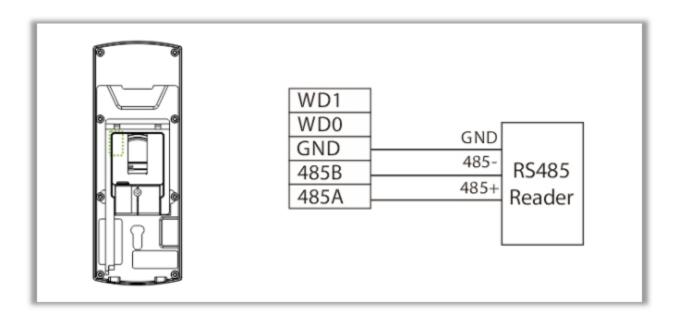


1.5.4 Ethernet Connection

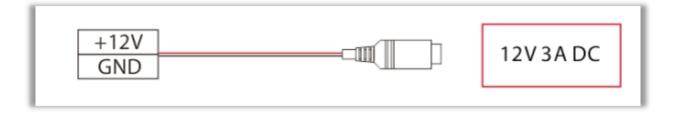


Note: In LAN, IP addresses of the Server (PC) and the device must be in the same network segment when connecting to the ZKBioAccess software.

1.5.5 RS485 Connection

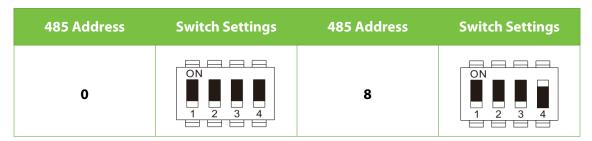


1.5.6 Power Connection



1.5.7 DIP Switch Settings

The control panel adopts a rotary DIP switch. The numbers 1 to 4 of the DIP switch are set as the device number for RS485 communication. The code is binary, and the numbering starts from left to right. When the switch is set upwards (ON) position, it indicates 1 (ON); when the switch is set downwards (OFF), it means 0 (OFF). For example, to set a device number as 15=1+2+4+8, which corresponds to the binary code 1111, move the numbers 1, 2, 3, and 4 to ON position.



1	ON 1 2 3 4	9	ON 1 2 3 4
2	ON 1 2 3 4	10	ON 1 2 3 4
3	ON 1 2 3 4	11	ON 1 2 3 4
4	ON 1 2 3 4	12	ON 1 2 3 4
5	ON 1 2 3 4	13	ON 1 2 3 4
6	ON 1 2 3 4	14	ON 1 2 3 4
7	ON 1 2 3 4	15	ON 1 2 3 4

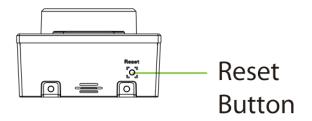
As an All-in-One device, you can connect it to an external RS485 reader. When it is used as an RS485 reader, it needs to be used with a 6-bit DIP switch. The first to fourth ports are used to set the RS485 address, port 5 is used to switch modes, port 6 is to set the state of terminal resistor.

Switch Modes	Port	Switch	Settings
All-in-one & Wiegand reader	5	5	ON
RS485 Reader	5	5	OFF



1.6 Restore to Factory Settings

There is a **Reset** button at the bottom of the device. Press it and hold for 5 seconds, the device will restore to the factory settings (**Note:** The user data will not be deleted).

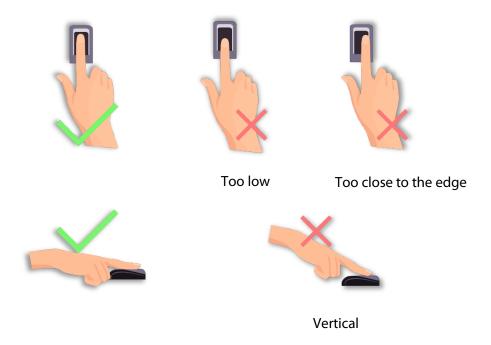


2 Instructions to Use

2.1 Finger Positioning

Recommended fingers: Using Index, Middle, or Ring finger is recommended. Avoid using the Thumb or Little finger, as they are difficult to accurately press onto the fingerprint reader.

Press your finger firmly onto the fingerprint reader. Ensure that the center of your finger is aligned with the fingerprint reader.

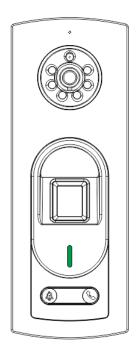


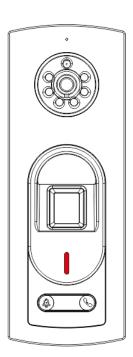
User Manual Notus



Mote: Please press your finger properly onto the fingerprint reader for registration and identification. Our company will assume no liability for recognition issues that may result from incorrect usage of the product. We reserve the right of final interpretation and modification concerning this point.

2.2 Verification Modes





2.2.1 Fingerprint Verification

The device supports 1:N Fingerprint Verification. It compares the fingerprint that is being pressed onto the fingerprint reader with all the fingerprint templates stored in the device. The device's indicator light will turn green after successful verification, and red if it is not verified successfully.

The device opens the fingerprint authentication mode when a user presses his/her finger onto the fingerprint scanner.

Please press your finger properly on the fingerprint scanner. For details, please click <u>here</u>.

2.2.2 Card Verification

The device supports 1:N Card Verification. The device compares the card number which is swiped in the card detection area with all the card number data registered in the device. The device's indicator light will turn green after successful verification, and red if it is not verified successfully.

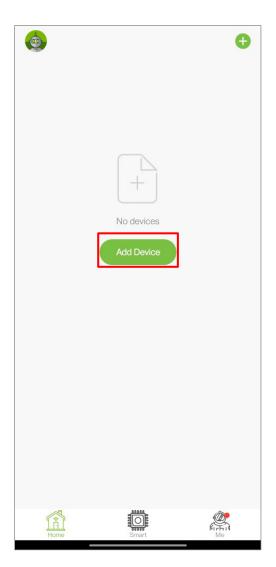
3 Connect to ZSmart App

Users can use the ZSmart App for the video intercom function.

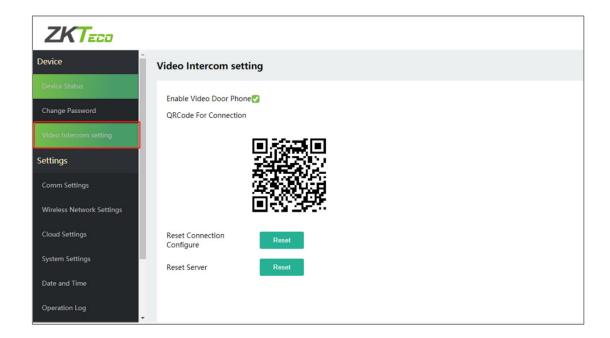
3.1 Add Device to ZSmart

After downloading and installing the ZSmart App on the phone, open it and add the device by scanning the QR code on the back cover of the device or scan the Video Intercom QR Code in **[Device]> [Video Intercom setting]** on the web application of the device. The process is as follows: The process is as follows:

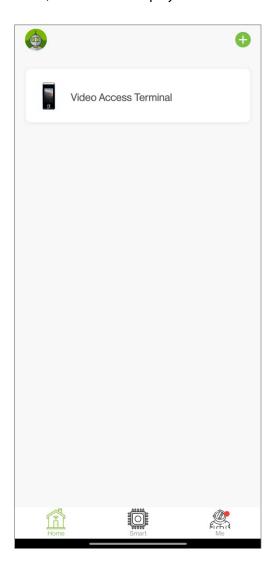
- 1) Click **Add Device** in the Home Page.
- 2) Click the icon in the upper right corner to scan and add devices.





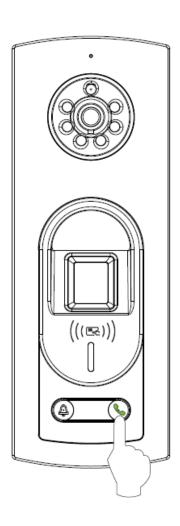


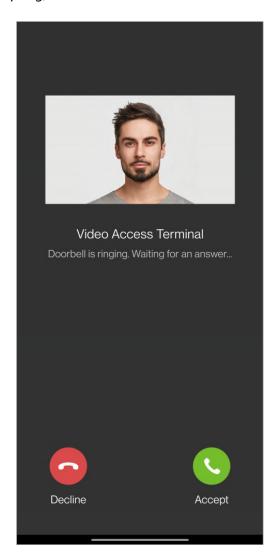
After the addition is successful, the device is displayed on the **Home** page.



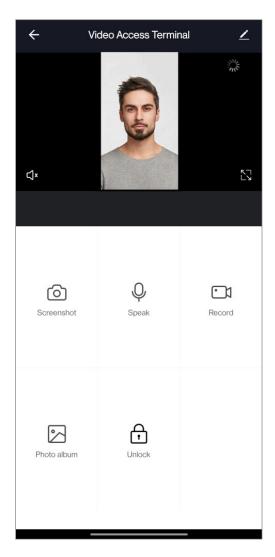
3.2 Video Door Phone Connection

Visitors click the **Call key** on the main interface of the device to call and the phone will ring. The user can select accept or decline the call. After the user accepting, it will enter the visual talk interface.





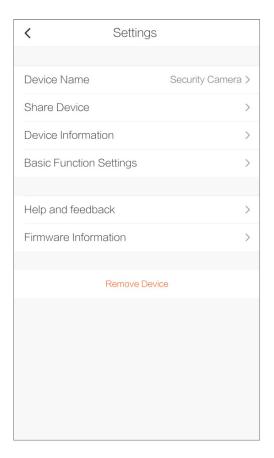
3.3 Video Door Phone Settings



Parameter	Description
Screenshot	Click to make a screenshot.
Speak	The icon becomes blue when click it, and you can talk to the device at this time.
Record	Click to make a record video.
Photo album	View and delete screenshots and recorded videos.
Unlock	Click to open the door remotely. The unlocking record is saved in Me > Message Center.

3.4 APP Settings

Click the on the visual talk interface to enter the APP settings.

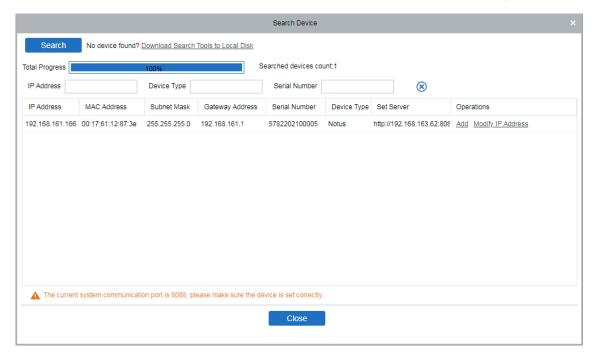


Parameter	Description
Device Name	After adding the device successfully, the user can modify the device name.
Device Name	The default name is Security Camera.
Share Device	Add the registered mobile phone number of the user to share the device to
Silare Device	others.
Device Information	Displays the Owner, IP Address, Device ID, and Device Time Zone.
Basic Function	In one-way talk mode, only one of the APP or device side can talk, and in two-
Setting	way talk mode, both sides can talk to each other. The default is One-way Talk.
Help and feedback	Fill in and submit the feedback.
Firmware	Displays the firmware version of the device and the date of the last update.
Information	Displays the infinware version of the device and the date of the last appeare.

4 ZKBioAccess Configuration

Add Device to the Software

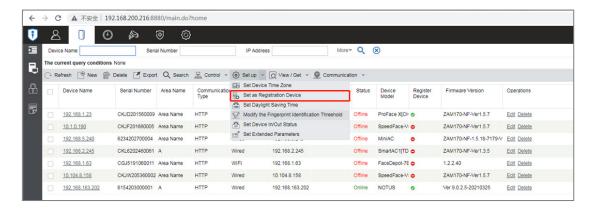
- 1. Click Access Control > Device > Search Device, to open the Search interface.
- 2. Click Search, and it will prompt [Searching.....] while searching the connected access controllers.
- 3. After searching, the list and the total number of access controllers will be displayed.



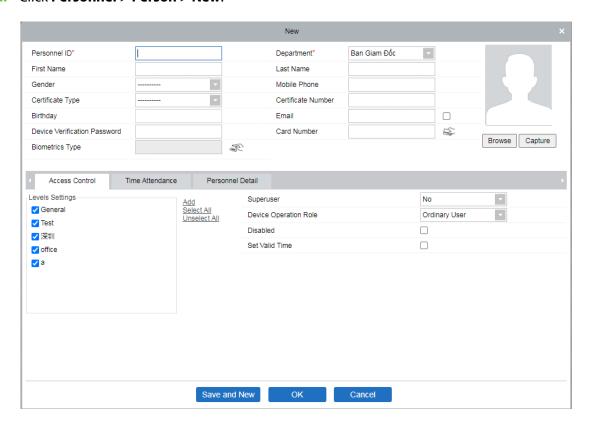
- 4. Click **Add** to add the device.
- 5. After the addition is successful, the device will be displayed in the device list.

Add Persons to the Software and Online Fingerprint Registration

1. In the device list, select the device and click **Set up > Set as Registration Device.**



2. Click Personnel > Person > New.



3. Enter the required details of the user. Click see to enter the online fingerprint registration interface.



4. Click **Driver Download** to install the driver first.

5. Select Remote Registration, then select the IP address of the device and click Confirm.



- 6. Select the finger you want to register and press your finger on the fingerprint sensor of the device three times. If the fingerprint is successfully registered, the device will prompt "Registered successfully".
- **7.** If you want to register a duress fingerprint, you can click **Duress Fingerprint** before registering the fingerprint.
 - **Duress fingerprint:** In any case, a duress alarm is generated when a fingerprint matches a duress fingerprint.
- 8. Click **OK** to save the user.

Note: For other specific operations, please refer the *ZKBioAccess User Manual*.

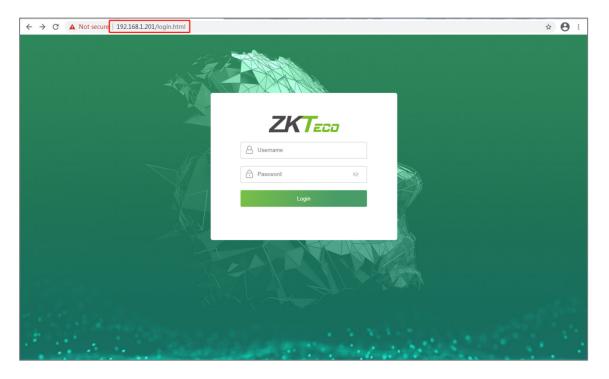
5 Webserver

The user can open the web application to set the relevant parameters of the device.

5.1 Login

First connect the device to the Internet. Open a browser and input the link: https: //IP address (the device) to enter the login interface. (e.g., the default IP address of the device is 192.168.1.201, the webserver link is https://192.168.1.201.)

Note: The IP address of your PC and the device should be in the same network segment, otherwise you cannot open the link. If you modify the IP address of the device in Settings-Comm Settings, then the webserver link will be changed accordingly.

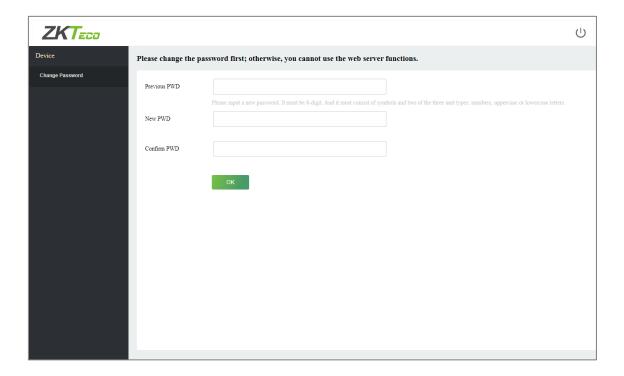


Enter the Username and Password.

Username: admin (default)

Password: admin@123 (default)

After successful login, it will jump to [Change Password] page. Enter your Previous password, New password and Confirm password. Then click OK, as shown below:



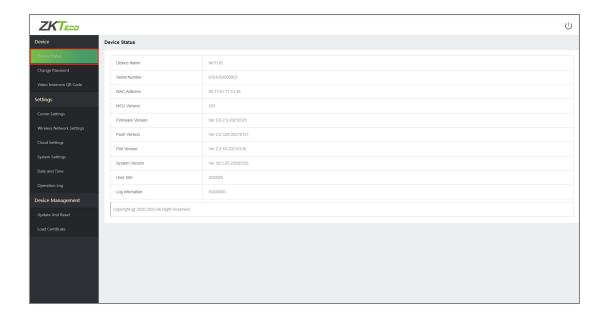
∠ Note:

- 1. The password must be changed when logging in for the first time.
- 2. The new password must be of 8-digit and it must consist of symbols and any two of the three-character types: numbers, uppercase or lowercase letters.
- 3. After the modification is successful, it will return to the login interface.

5.2 Device

5.2.1 Device Status

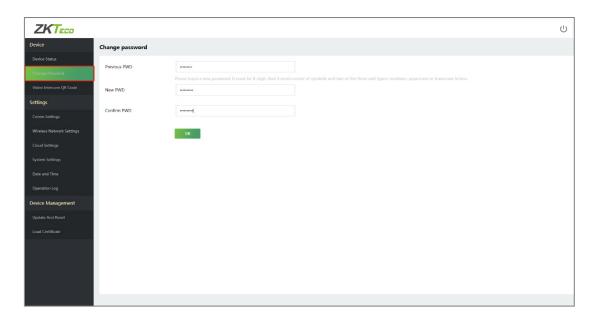
Click [Device Status] to view the Device name, Serial number, MAC address, etc. of the current device.



5.2.2 Change Password

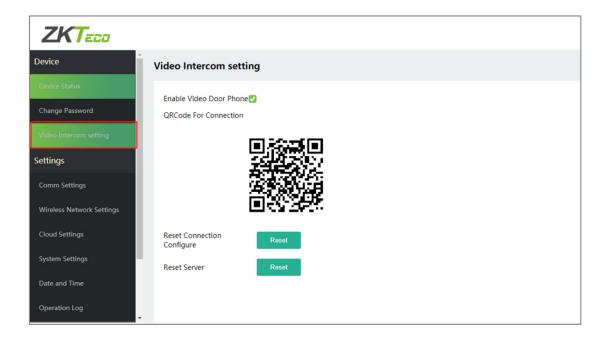
Click [Change Password] to modify the user password.

Enter your **Previous password**, **New password** and **Confirm the password**, then click OK.



5.2.3 Video Intercom QR Code

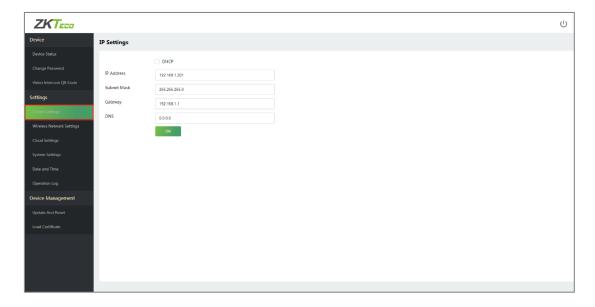
Click **[Video Intercom QR Code]** and scan the QR code through your phone, and then download and install the ZSmart App. If you have installed the APP, you can scan the QR code to bind the device. The process has been clearly explained in "3 Connect to ZSmart App".



5.3 Settings

5.3.1 Comm Settings

When the device needs to communicate with the network, you need to configure the IP settings.



The fields description is as follows:

DHCP: DHCP (Dynamic Host Configuration Protocol) dynamically allocates the IP addresses for clients via server. If DHCP is enabled, IP addresses cannot be set manually.

IP Address: The default value is192.168.1.201, it can be modified according to the available network parameters.

Subnet Mask: The default value is 255.255.255.0, it can be modified according to the available network parameters.

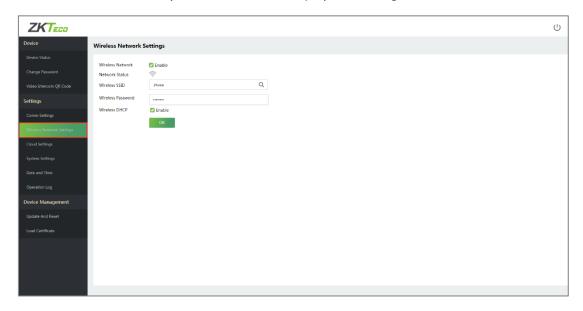
Gateway: The default value is 192.168.1.1, it can be modified according to the available network parameters.

DNS: The default DNS address is 0.0.0.0. It can be modified according to the network availability.

5.3.2 Wireless Network Settings

The device supports the Wi-Fi module, which is built-in within the hardware, to enable data transmission via Wi-Fi and establish a wireless network environment. By default, the Wi-Fi is turned off. The user needs to enable and set the related parameters on the WebServer.

- 1. Click the Enable button to enable the Wi-Fi function.
- 2. When Wi-Fi is enabled, you need to enter the SSID and Password in the text box and then click [OK].
- 3. If the Wi-Fi is successfully connected, it will display the 🛜 logo.



The fields description is as follows:

Wireless Network: To enable or disable the Wi-Fi function.

Network Status: The icon indicates Wi-Fi is successfully connected, and the icon indicates Wi-Fi is not connected.

Wireless SSID: Enter the SSID of the Wi-Fi network which you want to connect.

Wireless Password: Password of the Wi-Fi network.

Enable Wireless DHCP: Dynamic Host Configuration Protocol (DHCP) dynamically allocates IP addresses to network clients. If the DHCP is enabled, then the IP cannot be set manually.

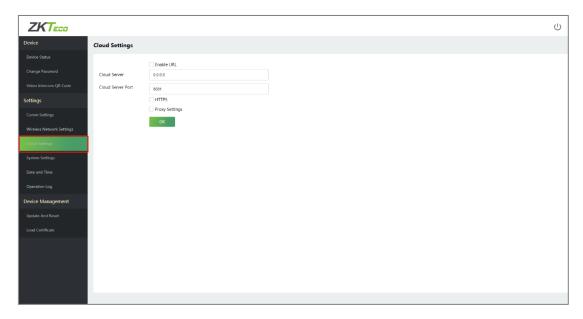
Wireless IP Address: IP address of the Wi-Fi network.

Wireless Subnet Mask: Subnet mask of the Wi-Fi network.

Wireless Gateway: Gateway address of the Wi-Fi network.

5.3.3 Cloud Settings

We can connect to the Cloud server by configuring the Cloud Server Settings.



The fields description is as follows:

Enable URL: When this function is enabled, the domain name mode "http://..." is used, such as http://www.XYZ.com (XYZ denotes the domain name). When this mode is turned OFF, you need to enter the IP address and port to connect to the webserver.

Cloud Server: The IP address of the server.

Cloud Server Port: The port of the server.

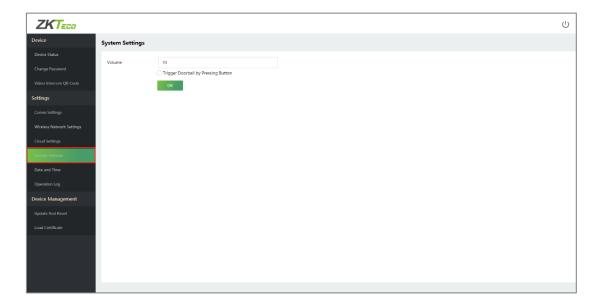
HTTPS: Enable the HTTPS mode by clicking the checkbox. It helps to connect to the ZKBioAccess software (which is the https version).

Proxy Settings: The IP address and the port number of the proxy server is set manually when the proxy is enabled.

5.3.4 System Settings

Click [System Settings] to set the device volume.

Enter the volume value and click OK.



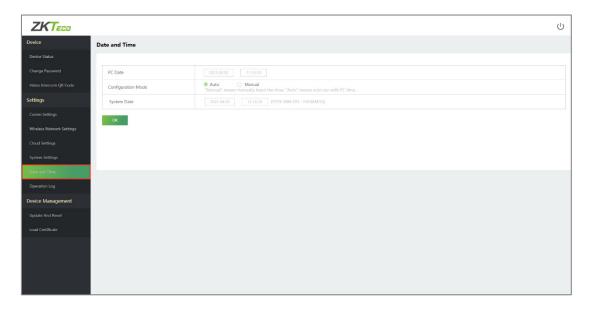
The fields description is as follows:

Volume: Adjust the volume of the device which can be set between 0 to 100.

Trigger Doorbell by Pressing Button: When this function is enabled, the doorbell will be triggered synchronously during a calling.

5.3.5 Date and Time

Click [Date and Time] to set the device date and time.



The fields description is as follows:

Auto: Automatically synchronizes the PC time.

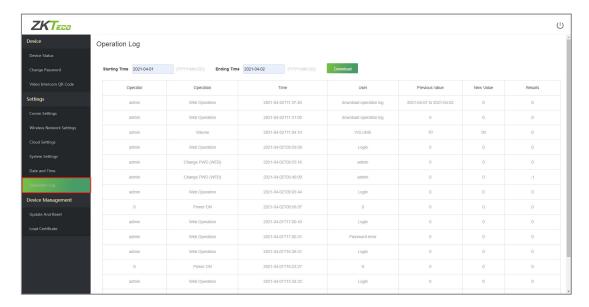
Manual: Need to manually input the date and time.

 ${\it Mote:}$ The date format is required to be YYYY-MM-DD-HH: MM: SS.

5.3.6 Operation Logs

Click [Operation Log] to view all the device operation logs.

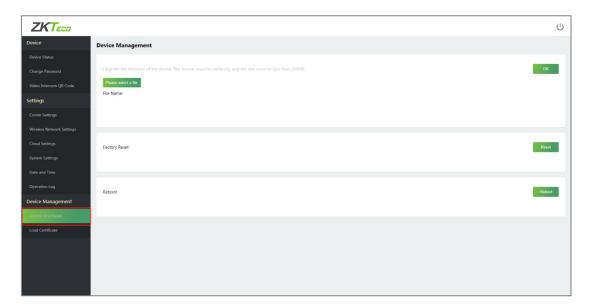
Download: Select the starting and ending time, and then click download, the operation log of the selected time will be automatically downloaded.



5.4 Device Management

5.4.1 Update and Reset

Click [Update and Reset] to set the device Update, Factory Reset and Reboot settings.



The fields description is as follows:

Update: Click **Please select a file**, the file format must be emfw.cfg, and the size must be less than 200 MB.

Click OK to complete the firmware upgrade operation.

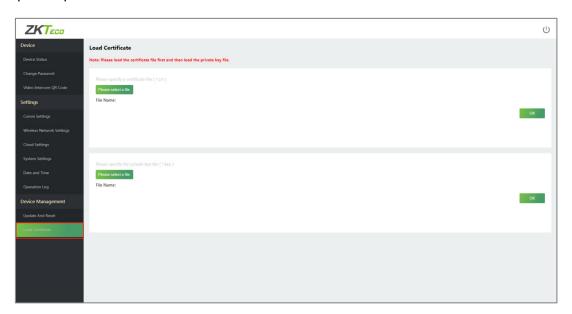
Factory Reset: The Factory Reset function restores the device settings such as communication settings and system settings, to the default factory settings.

Reboot: Restart the device.

5.4.2 Load Certificate

Click [Load Certificate] to upload the device certificate file and private key file.

Click **Please select a file,** upload the certificate file and private key file, and click OK to complete the file upload operation.



Note: Please load the certificate file first and then load the private key file.

Privacy Policy

Notice:

To help you better use the products and services of ZKTeco (hereinafter referred as "we", "our", or "us") a smart service provider, we consistently collect your personal information. Since we understand the importance of your personal information, we took your privacy sincerely and we have formulated this privacy policy to protect your personal information. We have listed the privacy policies below to precisely understand the data and privacy protection measures related to our smart products and services.

Before using our products and services, please read carefully and understand all the rules and provisions of this Privacy Policy. <u>If you do not agree to the relevant agreement or any of its terms</u>, you must stop using our products and services.

I. Collected Information

To ensure the normal product operation and help the service improvement, we will collect the information voluntarily provided by you or provided as authorized by you during registration and use or generated as a result of your use of services.

- 1. User Registration Information: At your first registration, the feature template (Fingerprint template/Face template/Palm template) will be saved on the device according to the device type you have selected to verify the unique similarity between you and the User ID you have registered. You can optionally enter your Name and Code. The above information is necessary for you to use our products. If you do not provide such information, you cannot use some features of the product regularly.
- 2. Product information: According to the product model and your granted permission when you install and use our services, the related information of the product on which our services are used will be collected when the product is connected to the software, including the Product Model, Firmware Version Number, Product Serial Number, and Product Capacity Information. When you connect your product to the software, please carefully read the privacy policy for the specific software.

II. Product Security and Management

1. When you use our products for the first time, you shall set the Administrator privilege before performing specific operations. Otherwise, you will be frequently reminded to set the Administrator privilege when you enter the main menu interface. If you still do not set the Administrator privilege after receiving the system prompt, you should be aware of the possible security risk (for example, the data may be manually modified).

2. All the functions of displaying the biometric information are disabled in our products by default. You can choose Menu > System Settings to set whether to display the biometric information. If you enable these functions, we assume that you are aware of the personal privacy security risks specified in the privacy policy.

- 3. Only your user ID is displayed by default. You can set whether to display other user verification information (such as Name, Department, Photo, etc.) under the Administrator privilege. If you choose to display such information, we assume that you are aware of the potential security risks (for example, your photo will be displayed on the device interface).
- 4. The camera function is disabled in our products by default. If you want to enable this function to take pictures of yourself for attendance recording or take pictures of strangers for access control, the product will enable the prompt tone of the camera. Once you enable this function, we assume that you are aware of the potential security risks.
- 5. All the data collected by our products is encrypted using the AES 256 algorithm. All the data uploaded by the Administrator to our products are automatically encrypted using the AES 256 algorithm and stored securely. If the Administrator downloads data from our products, we assume that you need to process the data and you have known the potential security risk. In such a case, you shall take the responsibility for storing the data. You shall know that some data cannot be downloaded for sake of data security.
- **6.** All the personal information in our products can be queried, modified, or deleted. If you no longer use our products, please clear your personal data.

III. Others

You can visit https://www.zkteco.com/cn/index/Index/Index/privacy_protection.html to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

Eco-friendly Operation



The product's "eco-friendly operational period" refers to the time period during which this product will not discharge any toxic or hazardous substances when used in accordance with the prerequisites in this manual.

The eco-friendly operational period specified for this product does not include batteries or other components that are easily worn down and must be periodically replaced. The battery's eco-friendly operational period is 5 years.

Hazardous or Toxic substances and their quantities Hazardous/Toxic Substance/Element Component Hexavalent Polybrominated Mercury Cadmium Polybrominated Lead Name chromium Diphenyl Ethers (Pb) Biphenyls (PBB) (Hg) (Cd) (PBDE) (Cr6+) 0 Chip Resistor × 0 0 0 0 **Chip Capacitor** X 0 0 0 0 0 Chip Inductor 0 0 0 0 0 X Diode 0 X 0 0 0 0 **ESD** 0 0 0 0 0 X component Buzzer × 0 0 0 0 0 Adapter X 0 0 0 0 0

X

Note: 80% of this product's components are manufactured using non-toxic and eco-friendly materials. The components which contain toxins or harmful elements are included due to the current economic or technical limitations which prevent their replacement with non-toxic materials or elements.

Screws

o indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in SJ/T 11363—2006.

 $[\]times$ indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in SJ/T 11363—2006.

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