Quick Start Guide

F18

Version: 1.0

1 Overview
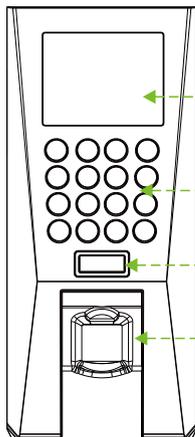
- 2.4 Inch TFT LCD
- Keypad & RF Card Read Area
- Door Bell & LED Indicator
- Fingerprint Sensor

Side
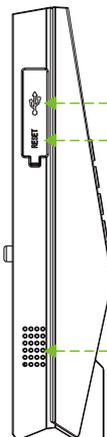
- USB Slot
- Reset Button
- Speaker

Back
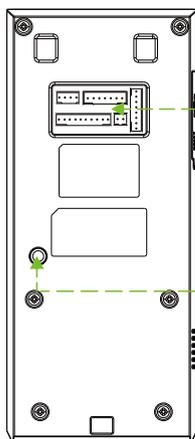
- Terminal Block
- Tamper Alarm Button

Bottom
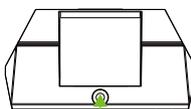
Star-shaped screw hole for fixing device to the back plate

Terminal Block:

RJ45-1
RJ45-2
RJ45-3
RJ45-6

+12V
GND
IWD1
IWD0
RLED
GLED
BEEP

WD0
WD1
GND
RXD
TXD
GND
485+
485-

BELL-
BELL+
SEN
GND
BUT
NO1
COM1
NC1
NO2
COM2

+12V
GND
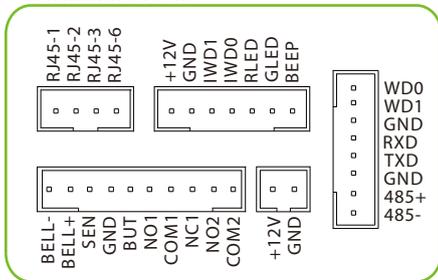
2 Installation of Wall-mount

Before the installation, please connect the cables to the connectors.

1) Fix back plate to the wall.

2) Mount the device on the back plate.

3) Secure the device and back plate.
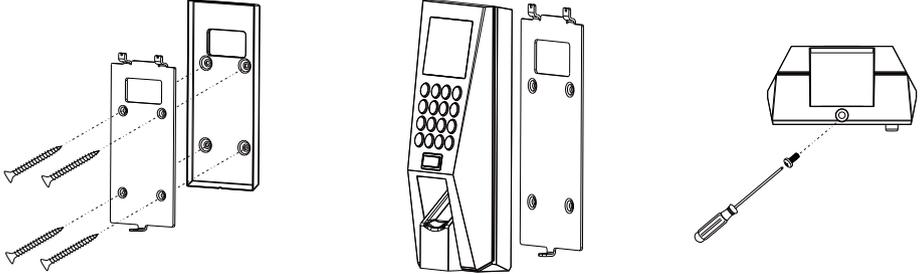
3 Cautions

1) Power cable is connected after other wirings, and shut down the power firstly, when making some necessary checking.

2) We recommend that use the DC 12V/3A power supply.

3) Please read the terminals description carefully and wiring by rule strictly.

4) Please connect the GND before other wirings especially under the serious electrostatic environment.

5) Do not install the device in a place subject to direct sunlight, humidity or dust.

4 Wiring Diagram
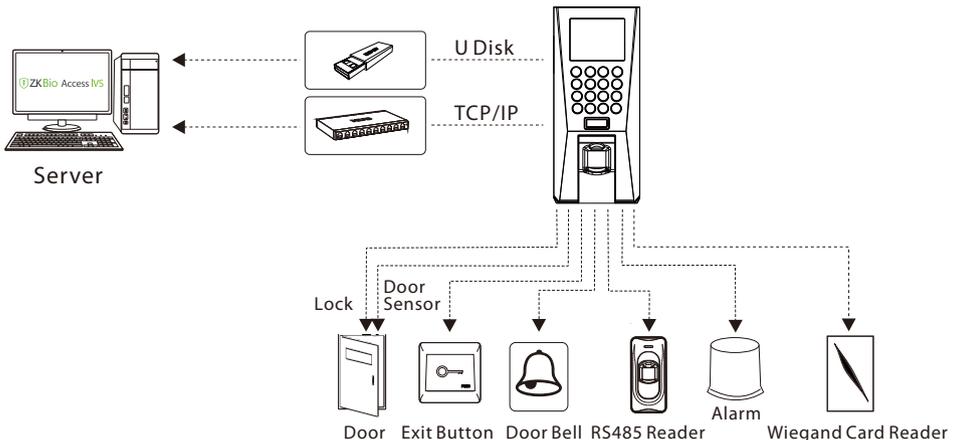
5 Lock Connection

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
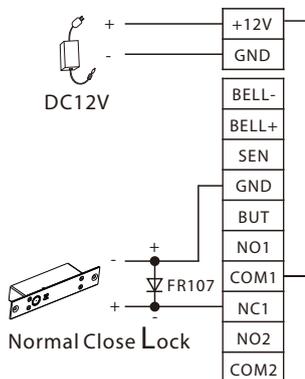
2) Device sharing power with the lock

| +12V |
| GND |
| BELL- |
| BELL+ |
| SEN |
| GND |
| BUT |
| NO1 |
| COM1 |
| NC1 |
| NO2 |
| COM2 |

DC12V

Normal Close Lock

FR107

DC12V

Power

Normal Close Lock

FR107
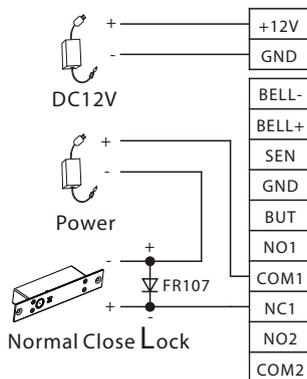
6 Door Bell & Door Sensor & Exit Button & Alarm Connection

Bell Power

Door Bell

Exit Button

Alarm Power

Alarm

| BELL- |
| BELL+ | Door Sensor |
| SEN |
| GND |
| BUT |
| NO1 |
| COM1 |
| NC1 |
| NO2 |
| COM2 |
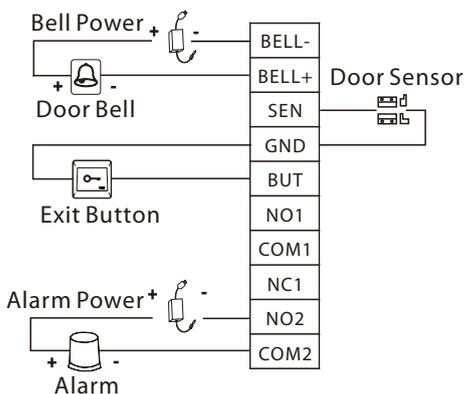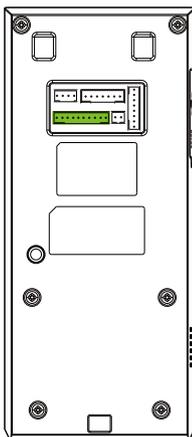
7 RS485 and RS232 Connection

WD0	
WD1	
GND	GND
RXD	TXD	RS232 Printer
TXD	RXD
GND	GND
485+	485+
485-	485-

RS485 Reader — GND, 485+, 485-
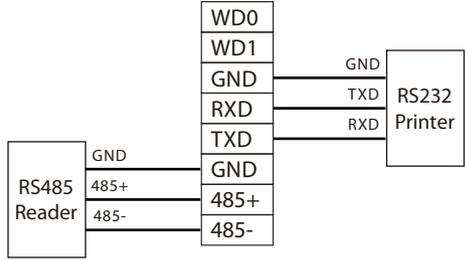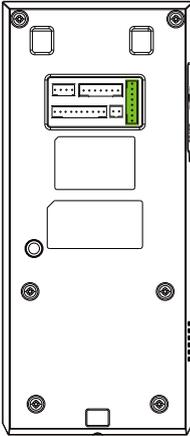
Note: RS232 for TA push firmware connect to the Printer.

8 Wiegand Reader Connection

+12V	+12V
GND	GND
IWD1	WD1
IWD0	WD0
RLED	
GLED	
BEEP	

Wiegand Card Reader
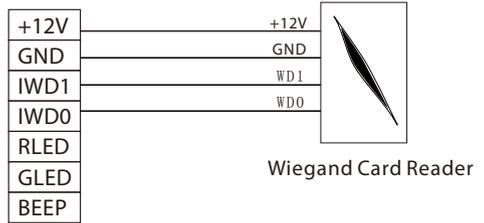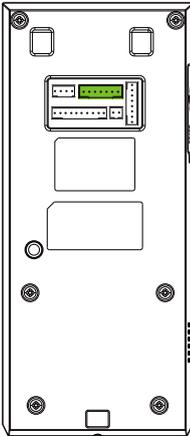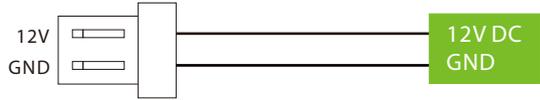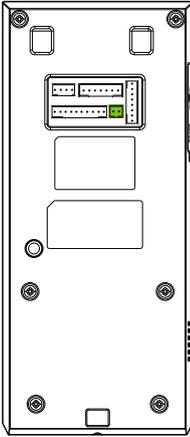
9 Power Connection

Recommended power supply:

1) 12V ± 10%, at least 500mA.
2) To share the power with other devices, use a power supply with higher current ratings.

10 Ethernet Connection
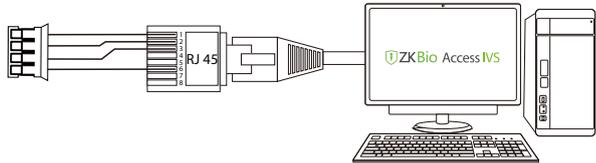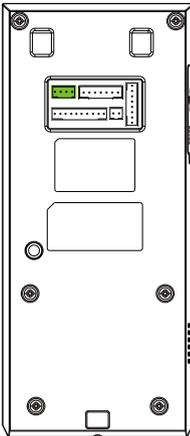
IP address: 192.168.1.130
Subnet mask: 255.255.255.0

IP address: 192.168.1.210
Subnet mask: 255.255.255.0

Press **M/OK** on the initial interface. Select **COMM.** and press **M/OK**. Then, select **Ethernet** on the **Comm.** Interface, press **M/OK** to set the IP address and gateway of the device.

Note: The IP address should be able to communicate with the ZKBioAccess IVS server, preferably in the same network segment with the server address.

11 User Registration

When there is no super administrator set in the device, press **M/OK** 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.

Select **User Mgt. > New User** and press **M/OK** to register a new user. Settings include entering user ID and name, registering fingerprint, password and card, setting user role.
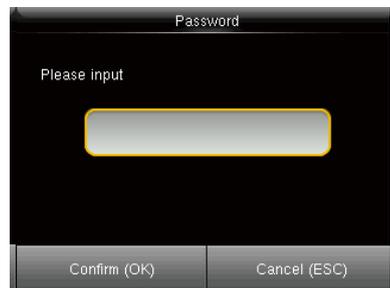
12 Ethernet and Cloud Server Setting

Press **M/OK** on the initial interface. Select **COMM.** and press **M/OK**. Then, select **Ethernet** on the **Comm.** Interface, press **M/OK** to set the network of the device. If the TCP/IP communication of the device is successful, the icon will be displayed in the upper right corner of the standby interface.

Press **M/OK** on the initial interface. Select **COMM.** and press **M/OK**. Then, select **Cloud Server Settings** on the **Comm.** Interface, press **M/OK** to set the cloud server address and server port. If the device communicates with the server successfully, the icon will be displayed in the upper right corner of the standby interface.
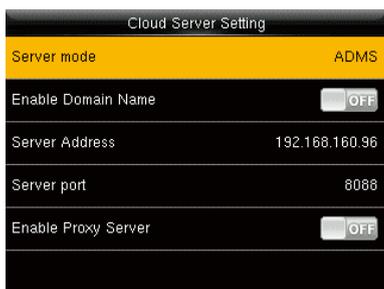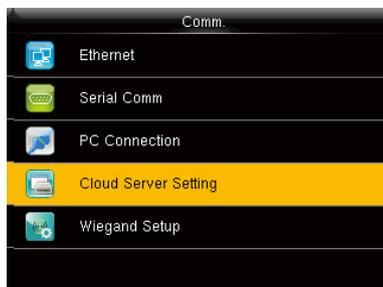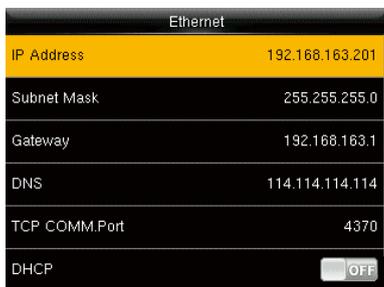
13 Connect to ZKBioAccess IVS Software

Device Side:

Set ethernet and cloud server parameters refer to chapter 12.

Note: The IP address should be able to communicate with the ZKBioAccess IVS server, preferably in the same network segment with the server address.

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

Server port: Set the server port as of ZKBioAccess IVS (The default is 8088).

Software Side:

Login to ZKBioAccess IVS software, click **System** > **Communication** > **Communication Monitor** to set the ADMS service port, as shown in the figure below:

Add Device on the Software

Add the device by searching. The process is as follows:

1) Click **Access Control > Device > Search Device** to open the Search interface in the software.
2) Click **Search**, and it will prompt "**Searching……**".
3) After searching, the list and total number of access controllers will be displayed.
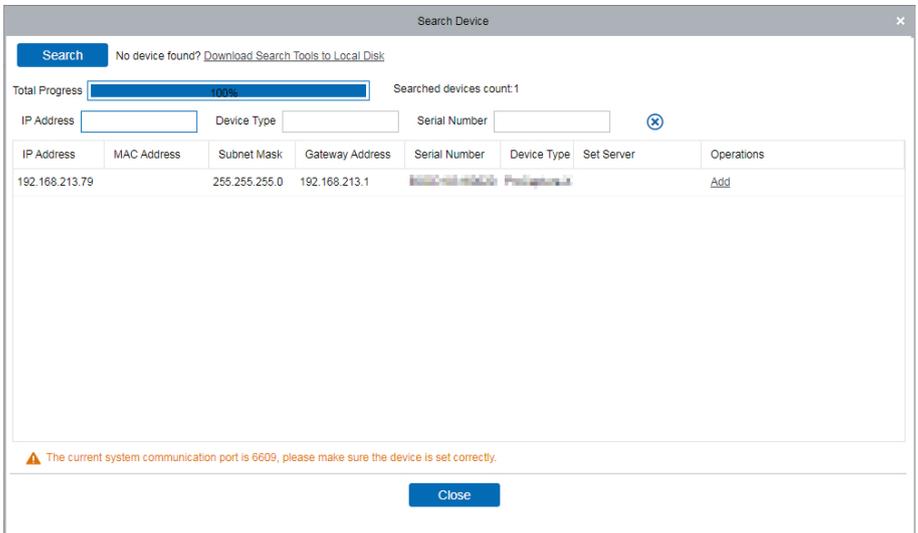
4) Click **Add** in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdown and click **OK** to add the device.

Add Personnel on the Software

1) Click **Personnel** > **Person** > **New**.

2) Fill in all the required fields and click **OK** to register a new user.
3) Click **Access > Device > Device Control > Synchronize All Data to Devices** to synchronize all the data to the device including the new users.

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