GENERAL QUICK START GUIDE

2.8 Inch Palm & Fingerprint

Time Attendance & Access Terminal

Version: 1.0
Date: May., 2017

Safety Precautions

The following precautions are to keep user safe and prevent any damage.
Please read carefully before installation.

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

Do not place a magnet near the product. Magnetic objects such as magnet, CRT, TV, monitor or speaker may damage the device.

Do not place the device next to heating equipment.

Be careful not to let liquid like water, drinks or chemicals leak inside the device.

Do not let children touch the device without supervision.

Do not drop or damage the device.

Do not disassemble, repair or alter the device.

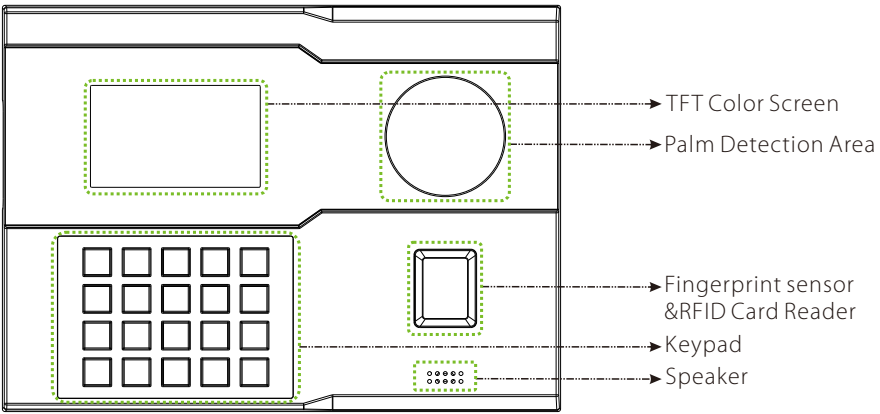**Do not** use the device for any purpose other than those specified.

Clean the device often to remove dust on it. In cleaning, do not splash water on the device but wipe it out with smooth cloth or towel.
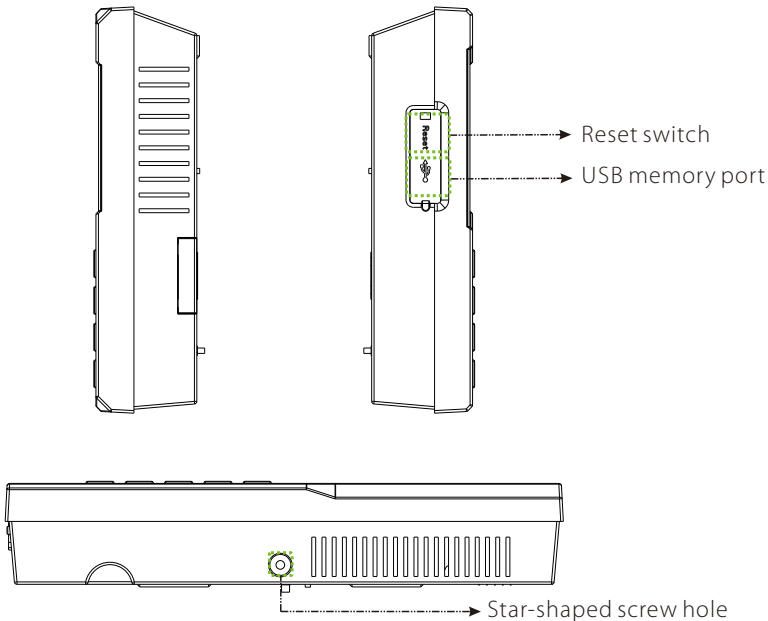
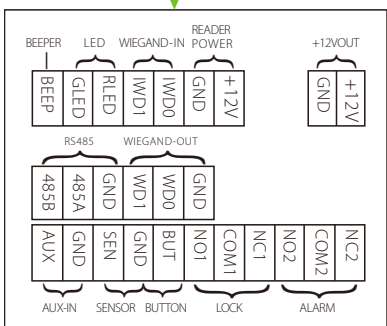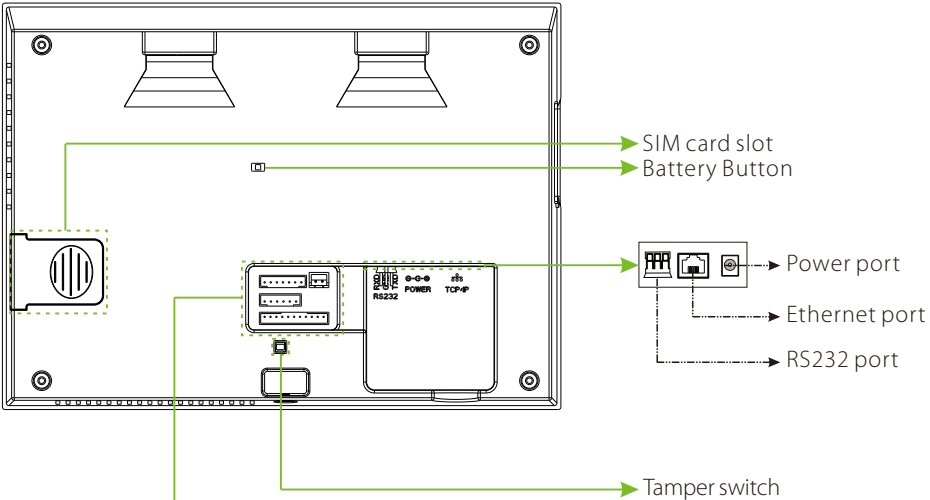**Contact** your supplier in case of a problem.

Device Overview

Front

TFT Color Screen
Palm Detection Area

Fingerprint sensor
&RFID Card Reader
Keypad
Speaker

Side

Reset switch
USB memory port

Star-shaped screw hole

Product PIN Diagram

Back

SIM card slot
Battery Button

Power port
Ethernet port
RS232 port

Tamper switch

BEEPER	LED	WIEGAND-IN	READER POWER	+12VOUT

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

RS485	WIEGAND-OUT

485B	485A	GND	WD1	WD0	GND

AUX	GND	SEN	GND	BUT	NO1	COM1	NC1	NO2	COM2	NC2

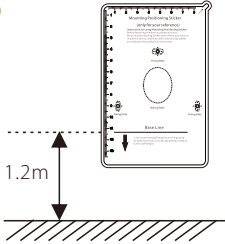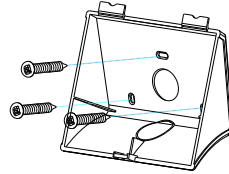| AUX-IN	SENSOR	BUTTON	LOCK	ALARM

Installation & Printer Connection

❖ Mounting the device on wall

1

Mounting Positioning Sticker
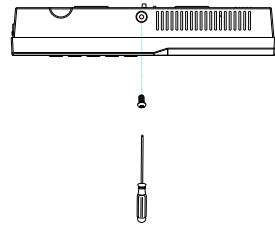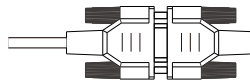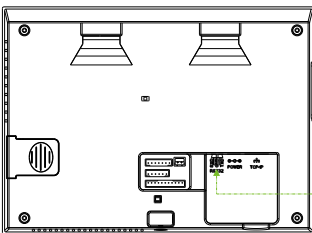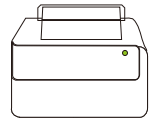(only for your reference)

1.2m

2

3
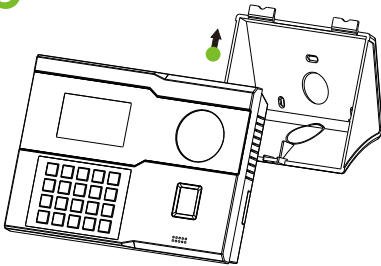
4

① Paste the mounting template sticker onto the wall, and drill holes according to the mounting paper.

② Fix the back plate onto the wall using wall mounting screws.

③ Insert the device into back plate.

④ Use security screw to fasten the device to back plate.
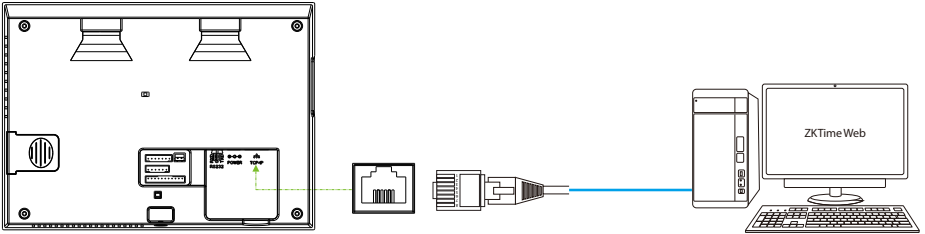
❖ Printer Connection

Serial Printer

RS232 cabel
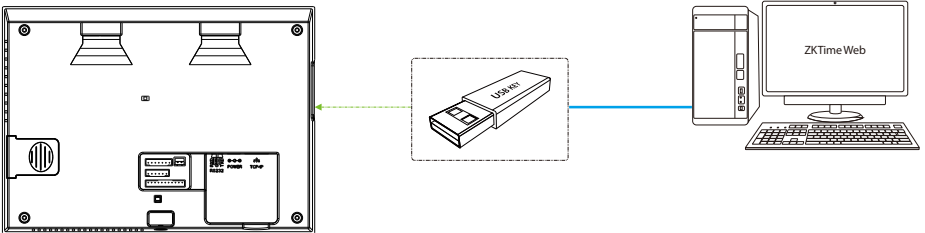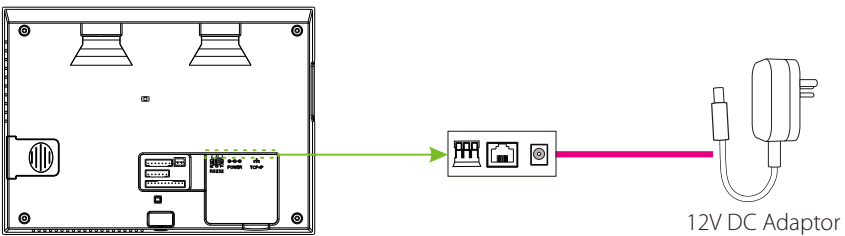
Ethernet & USB & Power Connection

❖ **LAN Connection**

ZKTime Web

❖ **USB Connection**


ZKTime Web

❖ **Power Connection**

12V DC Adaptor

Recommended power supply

1) 12V ± 10%, at least 1500mA.

2) To share the power with other devices, use a power supply with higher current ratings.

3) Battery is an optional function. You may not use the UPS.

Lock Relay Connection

The system supports Normally Opened Lock and Normally Closed Lock. For example the NO LOCK (normally)opened

❖ Device not sharing power with the lock
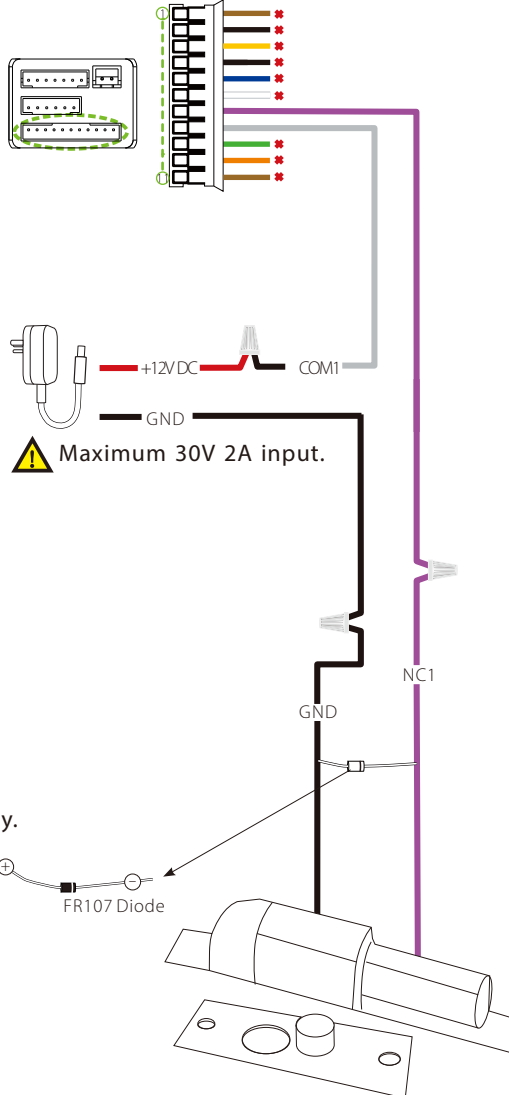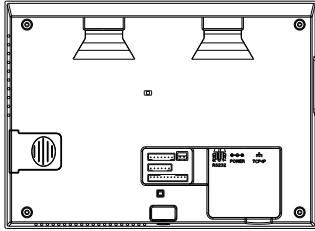
+12V DC   COM1

GND

⚠️ **Maximum 30V 2A input.**

PIN	DESCRIPTION		WIRE	
1	Aux	✖	Brown	
2	GND	✖	Black	
3	SEN	✖	Yellow	
4	GND	✖	Black	
5	BUT	✖	Blue	
6	NO1	✖	White	
7	COM1		Purble	
8	NC1		Gray	
9	NO2	✖	Green	
10	COM2	✖	Orange	
11	NC2	✖	Brown	

✖ Do not use

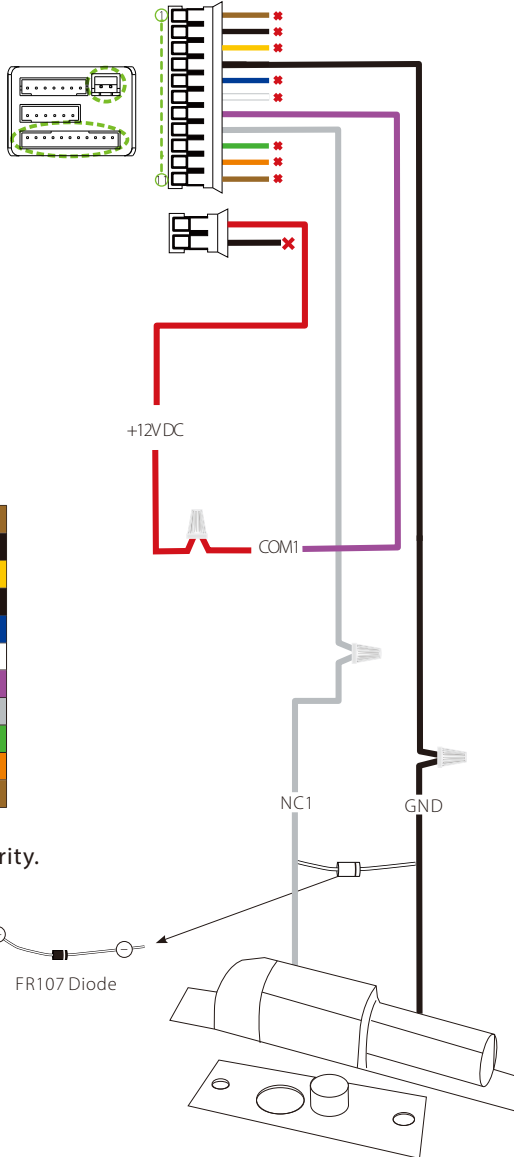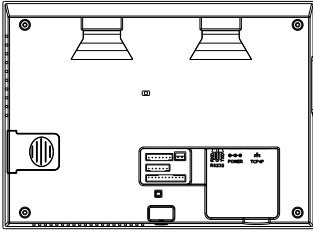⚠️ **Do not reverse the polarity.**

NC1

GND

FR107 Diode

Normally Closed Lock

Lock Relay Connection

❖ Device sharing power with the lock

+12V DC

COM1

NC1   GND

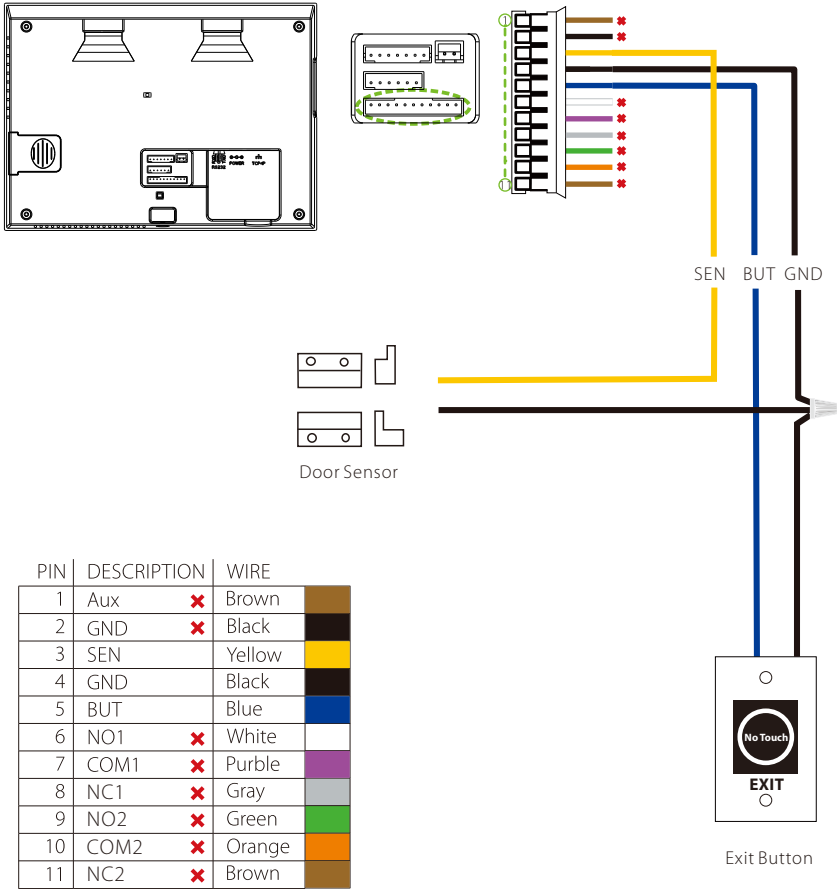| PIN	DESCRIPTION		WIRE	
1	Aux	✖	Brown	
2	GND	✖	Black	
3	SEN	✖	Yellow	
4	GND		Black	
5	BUT	✖	Blue	
6	NO1	✖	White	
7	COM1		Purble	
8	NC1		Gray	
9	NO2	✖	Green	
10	COM2	✖	Orange	
11	NC2	✖	Brown	

✖   Do not use

⚠️ **Do not reverse the polarity.**

FR107 Diode

Normally Closed Lock

⚠️ **Maximum 12V 2A input.**
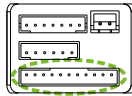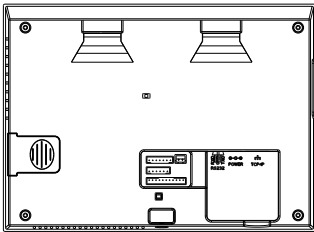
Button & Sensor Connection
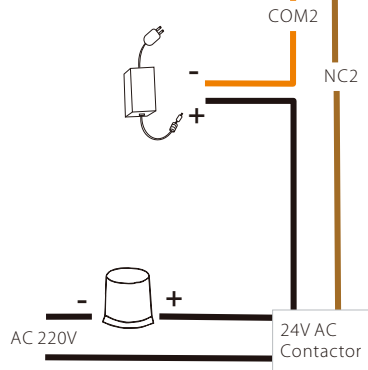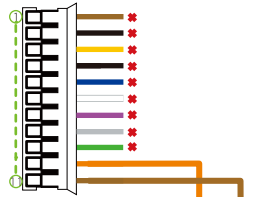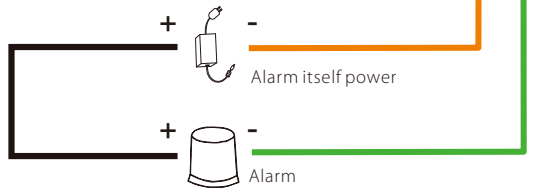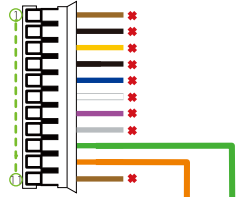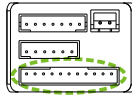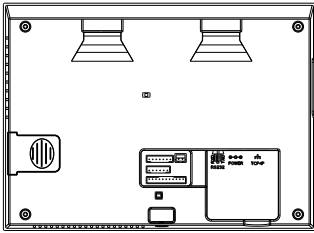
SEN   BUT GND

Door Sensor

PIN	DESCRIPTION		WIRE	
1	Aux	✕	Brown	
2	GND	✕	Black	
3	SEN		Yellow	
4	GND		Black	
5	BUT		Blue	
6	NO1	✕	White	
7	COM1	✕	Purble	
8	NC1	✕	Gray	
9	NO2	✕	Green	
10	COM2	✕	Orange	
11	NC2	✕	Brown	

✕   Do not use

⚠ **Do not reverse the polarity.**

No Touch

EXIT

Exit Button

Alarm Connection

COM2 NO2

+ — Alarm itself power

+ — Alarm

COM2

— +

NC2

- +

AC 220V

24V AC Contactor

PIN	DESCRIPTION		WIRE	
1	Aux	✖	Brown	
2	GND	✖	Black	
3	SEN	✖	Yellow	
4	GND	✖	Black	
5	BUT	✖	Blue	
6	NO1	✖	White	
7	COM1	✖	Purble	
8	NC1	✖	Gray	
9	NO2		Green	
10	COM2		Orange	
11	NC2		Brown	

✖ Do not use

9

Wiegand Input & Output Connection

❖ Wiegand In connection
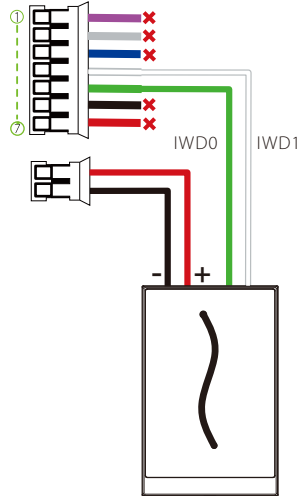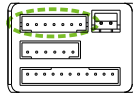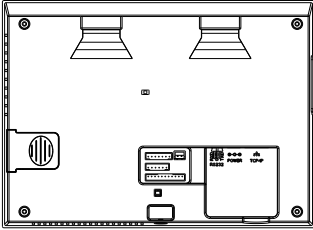
PIN	DESCRIPTION		WIRE	
1	BEEP	✖	Purple	
2	GLED	✖	Gray	
3	RLED	✖	Blue	
4	IWD1		White	
5	IWD0		Green	
6	GND	✖	Black	
7	+12V	✖	Red	

✖ Do not use

IWD0   IWD1

− +

Wiegand reader

❖ Wiegand Out connection

PIN	DESCRIPTION		WIRE	
1	485B	✖	Yellow	
2	485A	✖	Blue	
3	GND	✖	Black	
4	WD1		White	
5	WD0		Green	
6	GND		Black	

✖ Do not use

WD0   WD1   SGND
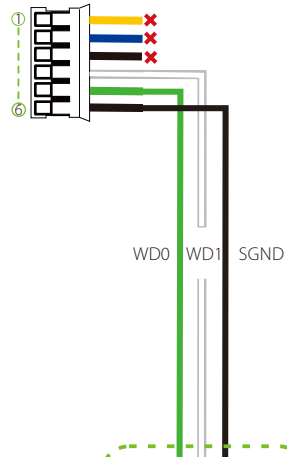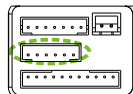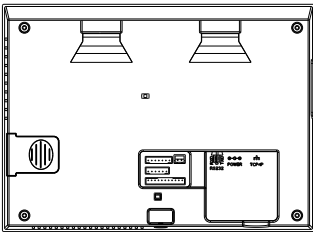
Wiegand Device
Wiegand In Port

RS485 Connection

FR1200

485-
485+
GND
+12V
GND
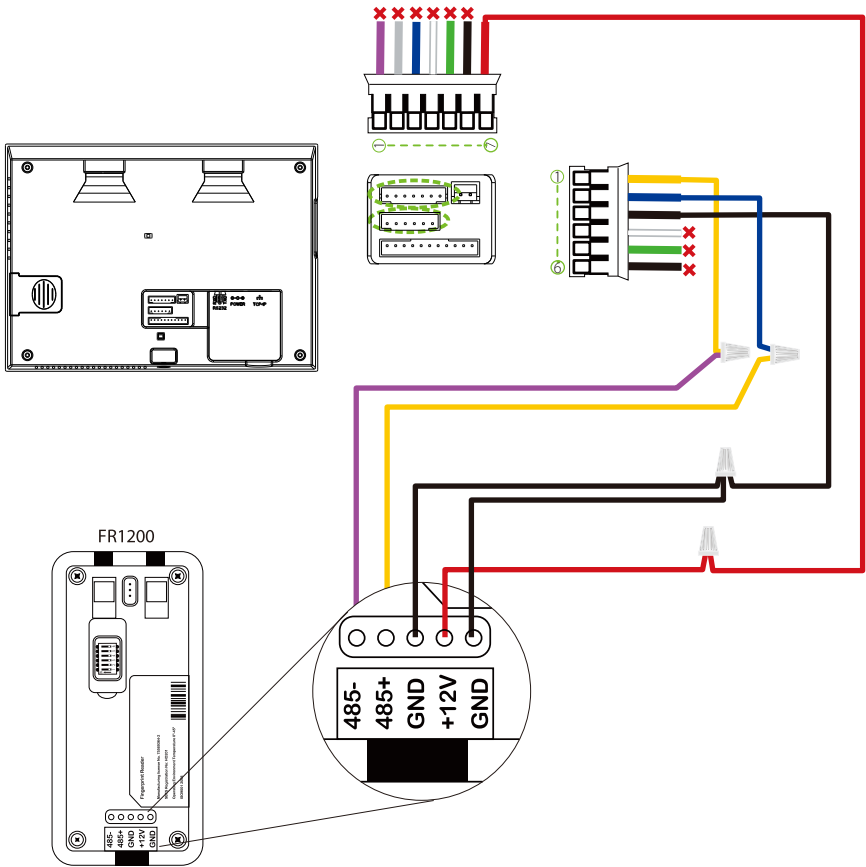
PIN	DESCRIPTION		WIRE	
1	485B		Yellow	
2	485A		Blue	
3	GND		Black	
4	WD1	✖	White	
5	WD0	✖	Green	
6	GND	✖	Black	

✖ Do not use

PIN	DESCRIPTION		WIRE	
1	BEEP	✖	Purple	
2	GLED	✖	Gray	
3	RLED	✖	Blue	
4	IWD1	✖	White	
5	IWD0	✖	Green	
6	GND	✖	Black	
7	+12V		Red	

✖ Do not use

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Standalone Installation

Option A

ZKTime Web

PC

Option B

ZKTime.Net

PC

SWITCH

TCP/IP

WAN

3G

SWITCH

Doorsensor

Lock

No Touch

EXIT

Exit Button
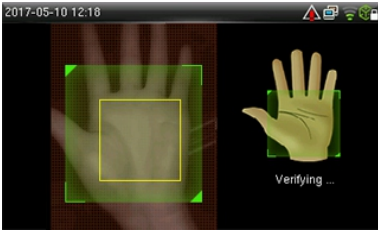
USB KEY

Serial Printer
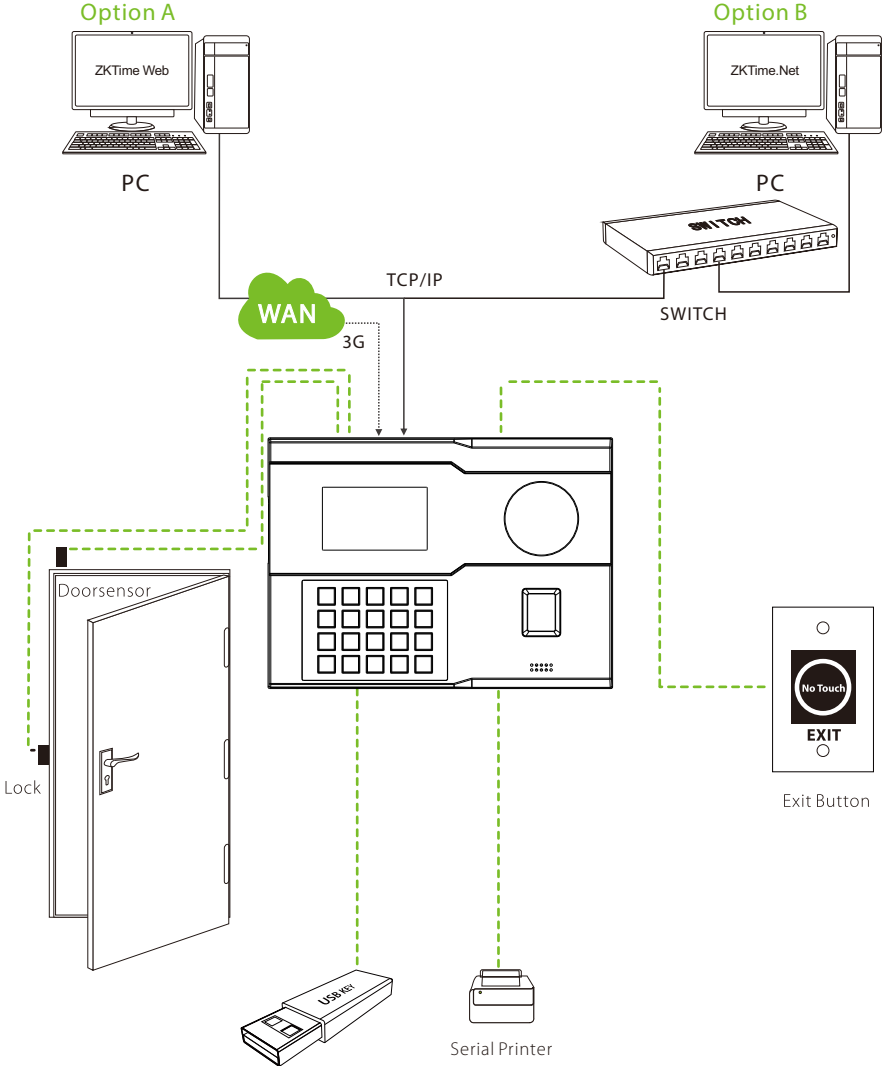
Palm Gestures

❖ Commended positions

Place your palm in the palm multi-mode collection area, such that the palm is placed parallel to the device.
Make sure to keep space between your fingers.

During enrollment locate your palm at the center of the screen, and follow the voice prompts "Center the palm inside the green box". The user needs to move forward and backward to adjust the palm position during the palm registration.

❖ Not commended positions
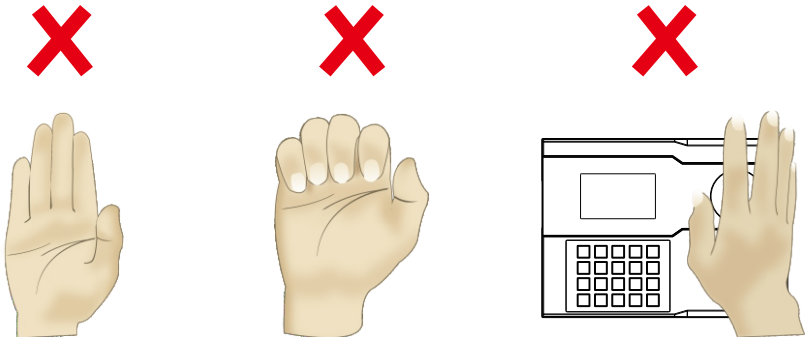
Note: Please keep natural posture while enrolling and verifying.

Device Operation

❖ Quick flows

1) Enroll New Users(Main Menu > User Management > New User)

User ID: Enroll user ID; it supports 1-9 digits of numbers.
Use Role: Select the user role between Normal User and Super Admin.
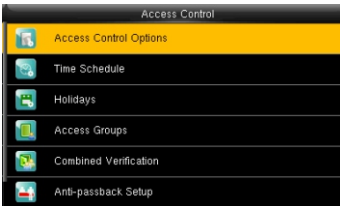Verification Mode: Select required mode from list.
Fingerprint ★ : Enroll a fingerprint or fingerprints.
Palm: Enroll palm according to the prompts of screen and voice.
Badge Number ★ :Enroll a badge by swiping the badge.
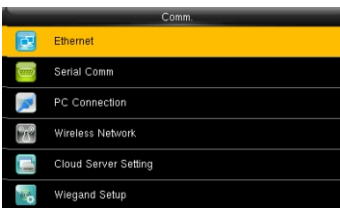Password: Enroll the password; it supports 1-9 digits of numbers.

2)Access Control Setting (Main Menu > Access Control)

Access Control Options: Including Door Lock Delay, Door Sensor Delay, Door Sensor Type, NC / NO Time Period etc.

3)Comm Setting (Main Menu > Comm.)

Ethernet: The device can communicate with PC via the Ethernet parameters.
Serial Comm: The device can communicate with PC via the serial port according to the user-defined parameters.
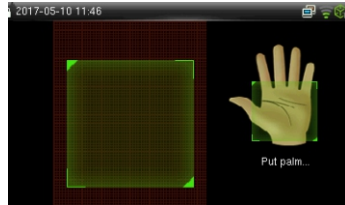PC Connection: Set the password and device ID so that you can connect the device with software in PC.
Cloud Server Setting★:Settings used for connecting with ADMS server.

Device Operation

4) Verification(1:1 verification mode for example)
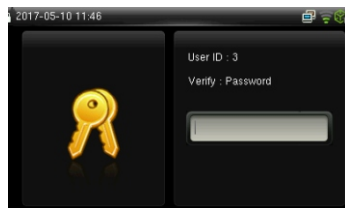
a. Palm Verification Mode

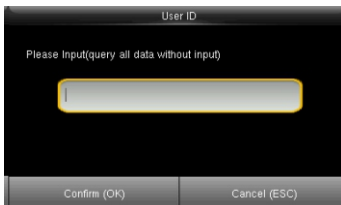b. Fingerprint Verification Mode

c. Password Verification Mode

5) Attendance Record

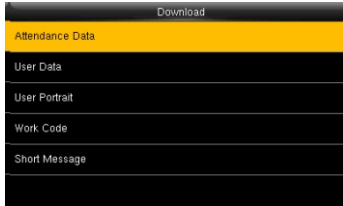a. View records in the device(Main Menu > Attendance Search > Attendance Record)

Enter the user ID to search.

Select the time range for attendance record query.

Device Operation

b. View records on computer (Main Menu > USB Manager > Download > Attendance Data)

1. Insert the USB disk correctly.
2. Download the attendance data to the disk.
3. Upload the attendance data from the disk to your computer.
4. Name the downloaded data as "Device Serial Number.dat".
You can open the downloaded data and view it.

6) Backup data

To avoid data loss due to mis-operation, you can back up the data to local drive or USB disk at any time.

1. Enter Main Menu > Data Management > Backup Data > Saving Type > Data Type to backup.
2. Select the content to-be-backed up.

7) Some miscellaneous settings

a. Date Time(Main Menu > System > Date Time)

Set the date, time and time format for the device.

b. Work Code(Main Menu > Work Code > New Work Code)

c. Short Message(Main Menu > Short Message)

❖ Troubleshooting

Q: The palm is not recognized by the device while verification.

A: 1.Check out if the palm postures and distance is same in enrolling and verifying.
    2.Check out if the sunlight is direct to the device or if the device is near to the windows.

Q: The device make a misjudgment while verification.

A: There is a certain probability of misjudgment, you can re-enroll the palm.

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