Quick Start Guide
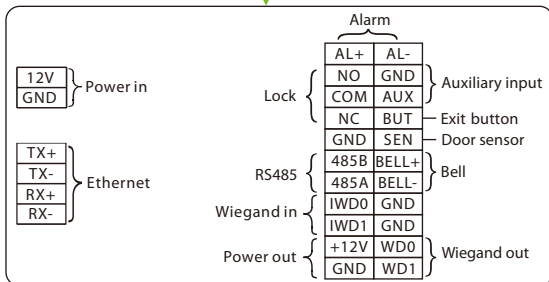
4-inch Linux Visible Light Terminal

Version: 1.1

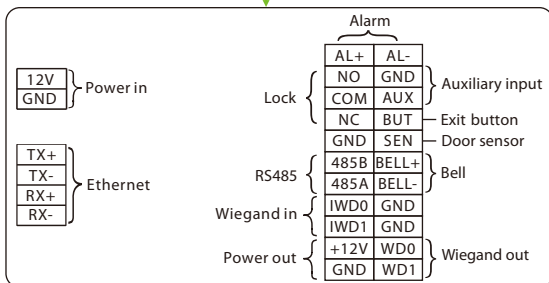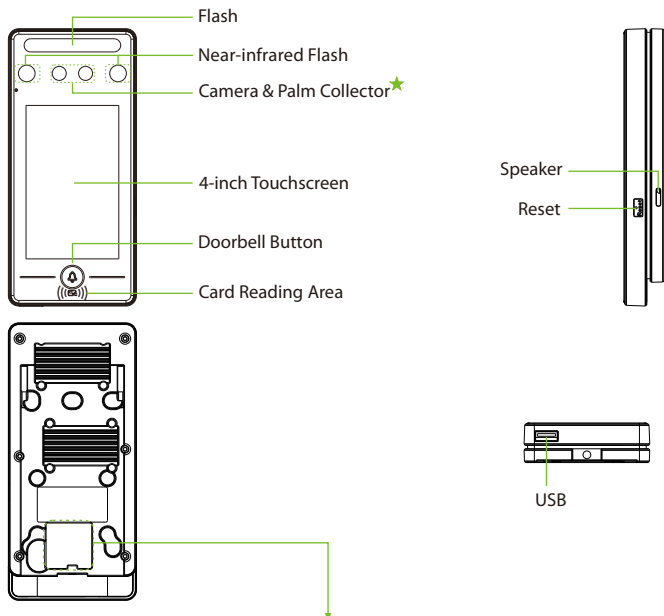# Overview

SpeedFace-V4LM1

- Flash
- Camera & Palm Collector ★
- Near-infrared Flash
- Microphone
- 4-inch Touchscreen
- Doorbell Button
- Card Reading Area

- Speaker
- Reset

- USB

	Alarm		
	AL+	AL-	
	NO	GND	Auxiliary input
Lock	COM	AUX	
	NC	BUT	Exit button
	GND	SEN	Door sensor
RS485	485B	BELL+	Bell
	485A	BELL-	
Wiegand in	IWD0	GND	
	IWD1	GND	
Power out	+12V	WD0	Wiegand out
	GND	WD1	

12V	Power in
GND	

TX+	
TX-	Ethernet
RX+	
RX-	
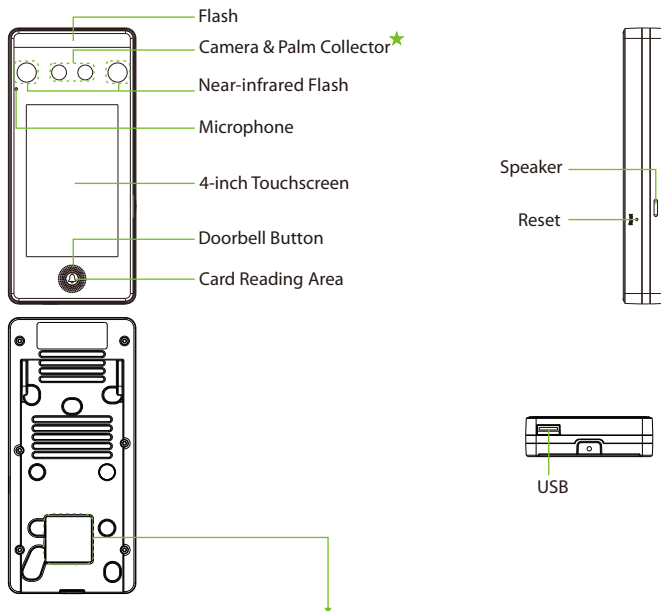
Note: Features and parameters with ★ mark are not available in all devices.

1

SpeedFace-V4L

- Flash
- Near-infrared Flash
- Camera & Palm Collector ★
- 4-inch Touchscreen
- Doorbell Button
- Card Reading Area

- Speaker
- Reset

- USB

	Alarm	
	AL+	AL-
Lock {	NO	GND } Auxiliary input
	COM	AUX
	NC	BUT } Exit button
	GND	SEN } Door sensor
RS485 {	485B	BELL+ } Bell
	485A	BELL-
Wiegand in {	IWD0	GND
	IWD1	GND
Power out {	+12V	WD0 } Wiegand out
	GND	WD1

12V	} Power in
GND	

TX+	
TX-	} Ethernet
RX+	
RX-	

Note: This manual only take **SpeedFace-V4LM1** as an example for detailed introduction, and the functions of **SpeedFace-V4L** will not be repeated.

Installation Environment

Please refer to the following recommendations for installation.

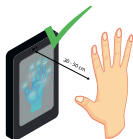| INSTALL INDOORS ONLY	AVOID INSTALLATION NEAR GLASS WINDOWS	AVOID DIRECT SUNLIGHT AND EXPOSURE	AVOID USE OF ANY HEAT SOURCE NEAR THE DEVICE
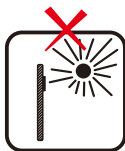
Recommended Palm Gestures ★

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 0.3-2m

Device Installation

1.5m
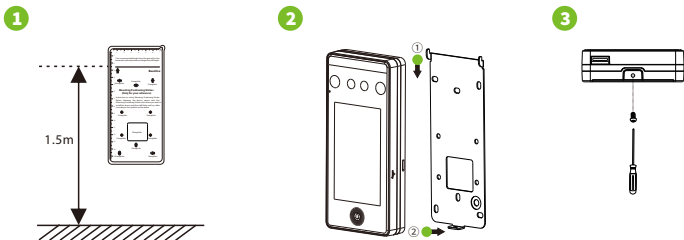
① Attach the mounting template sticker to the wall, and drill holes according to the mounting paper. Fix the back plate on the wall using wall mounting screws.
② Attach the device to the back plate.
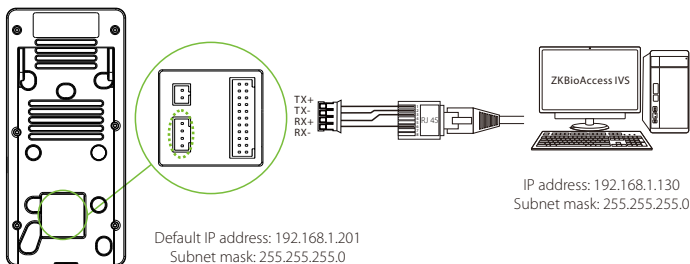③ Fasten the device to the back plate with a security screw.

Standalone Installation

Alarm

Smoke Detector

Doorbell

Door Sensor

Exit Button

Card Reader

Lock

TCP/IP WiFi

PC
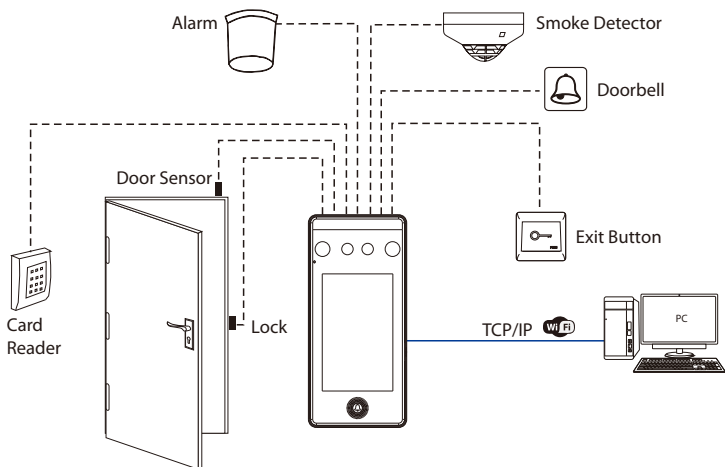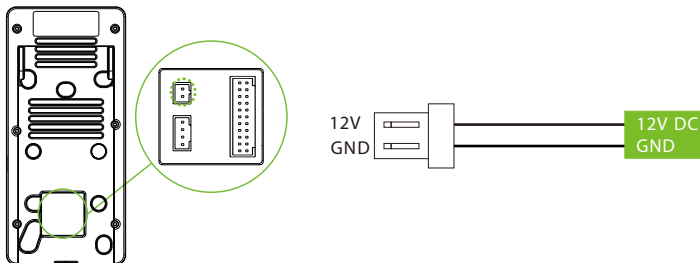
Power Connection

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 IVS software.

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:
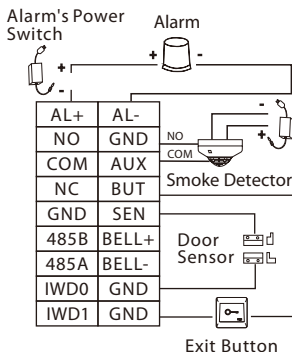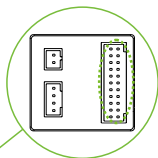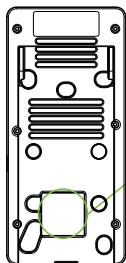
1) Device not sharing power with the lock

DC12V

DC12V

Normally Closed Lock

FR107

| +12V |
| GND |
| AL+ |
| NO |
| COM |
| NC |
| GND |
| 485B |
| 485A |
| IWD0 |
| IWD1 |
| +12V |
| GND |
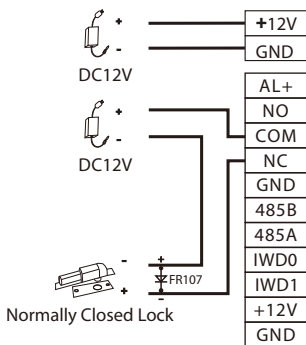
2) Device sharing power with the lock

DC12V

Normally Closed Lock

FR107

| +12V |
| GND |
| AL+ |
| NO |
| COM |
| NC |
| GND |
| 485B |
| 485A |
| IWD0 |
| IWD1 |
| +12V |
| GND |
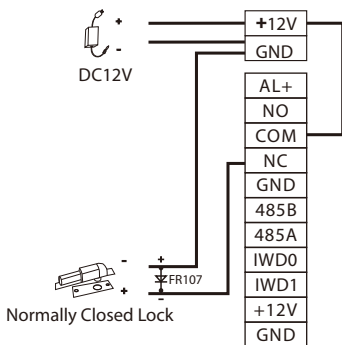
Door Sensor, Exit Button & Alarm Connection

Alarm's Power Switch

Alarm

Smoke Detector

Door Sensor

Exit Button

| AL+	AL-
NO	GND
COM	AUX
NC	BUT
GND	SEN
485B	BELL+
485A	BELL-
IWD0	GND
IWD1	GND

NO
COM

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.
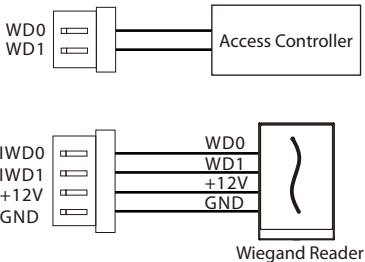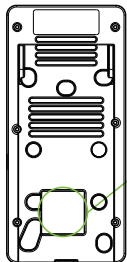
RS485 Connection

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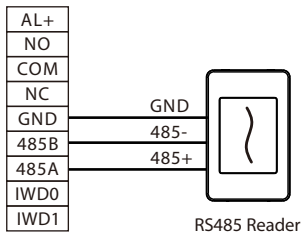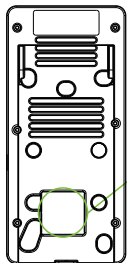
User Registration

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 User Photo.
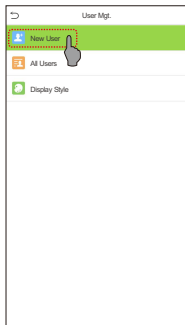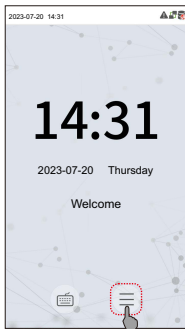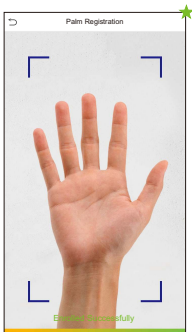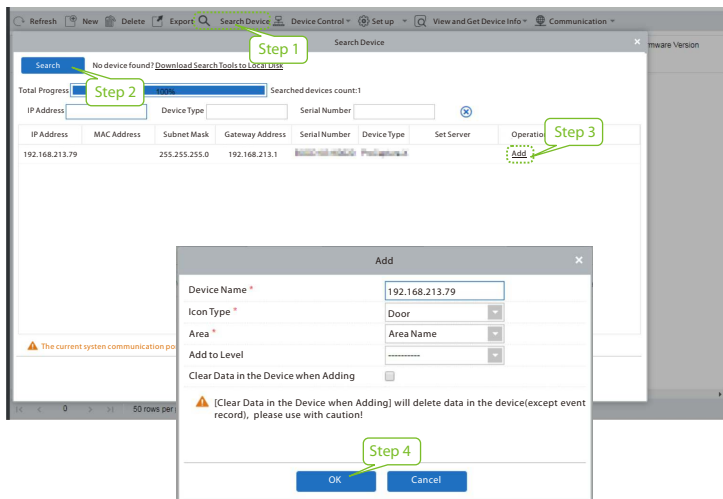
Method 2: Register on ZKBioAccess IVS software

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 Device**] 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**] > [**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.

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.
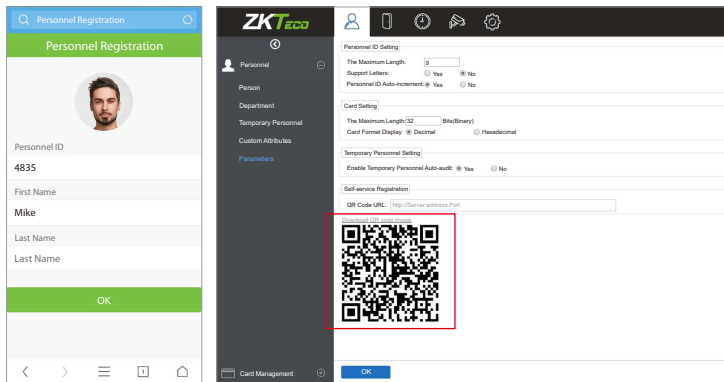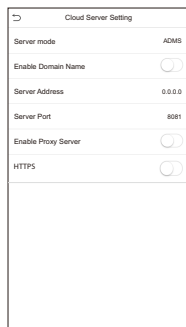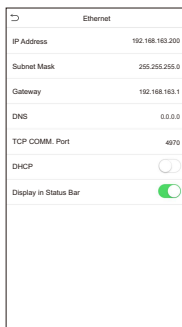

2. The users will be displayed in [**Personnel**] > [**Temporary Personnel**], click on [**Review**] option and assign a department and click [**OK**] to successfully add the user.
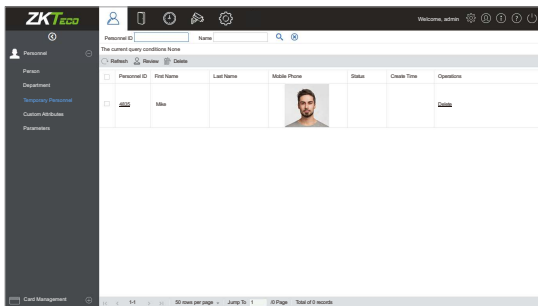
Ethernet and Cloud Server Settings

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.

⤺	Main Menu

User Mgt.	User Role	COMM.	System
Personalize	Data Mgt.	Access Control	USB Manager
Attendance Search	Autotest	System Info	

⤺	Ethernet
IP Address	192.168.163.200
Subnet Mask	255.255.255.0
Gateway	192.168.163.1
DNS	0.0.0.0
TCP COMM. Port	4970
DHCP	⬭
Display in Status Bar	🟢

⤺	Cloud Server Setting
Server mode	ADMS
Enable Domain Name	⬭
Server Address	0.0.0.0
Server Port	8081
Enable Proxy Server	⬭
HTTPS	⬭

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 8088).

Detection Management Settings

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

❶ You can enable mask detection function, and enable the **Deny access without mask** and the **Trigger external alarm**, the device will send an alarm prompt when the user doesn't wear a mask, meanwhile the user will be forbidden to access, as shown in the following figure.

❷ When the **Allow unregistered people to access** is enabled, optionally, set **Enable capture of unregistered person** to save the user photo.
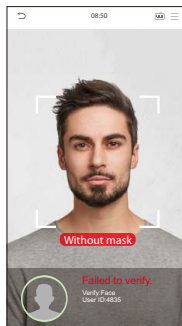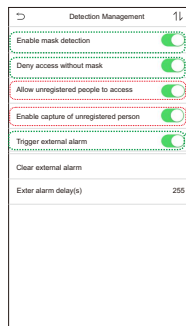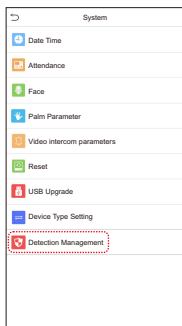
Connect to ZSmart

After downloading and installing the ZSmart App on the phone, open the App and add the device by scanning the QR code. Click [**System**] > [**Video intercom parameters**] > [**QR code binding**] on the device to enter the QR code interface. The process is as follows:
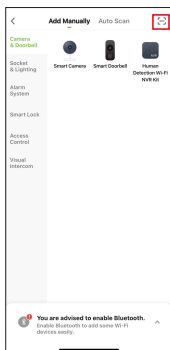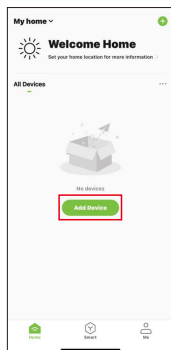


Video Door Phone Connection

Visitors press the doorbell button on the device to make a call and the phone will ring. The user can accept or decline the call. After the user accepts the call, it will open the video door phone interface. Enter the password to unlock the door.
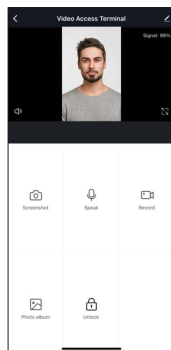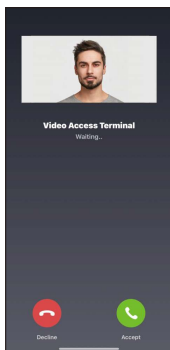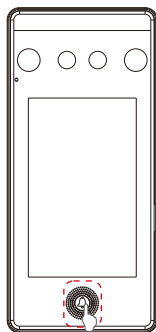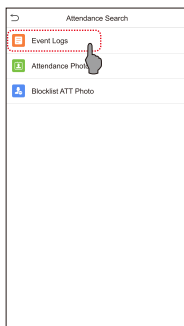
Access Control Setting

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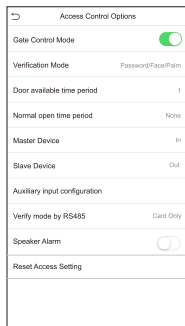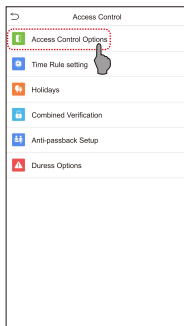
Attendance Record

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.

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