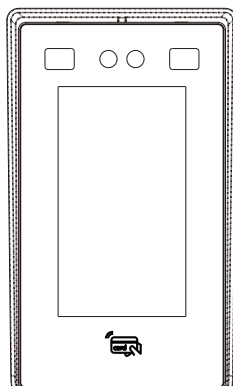
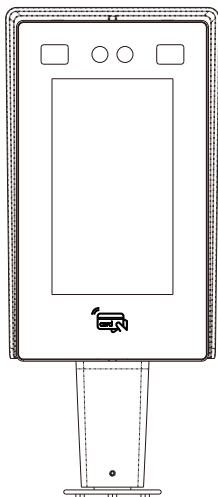
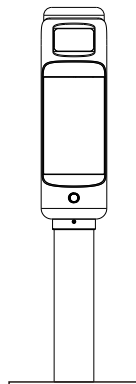
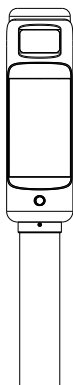


# Installation and Operation manual

**For TCP/IP With 905 System**



**Face Recognition**

## ■ Remark

*Please follow the user manual for correct installation and testing. If there is any doubt please call our tech-supporting and customer center.*

*Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.*

*The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.*

# CATALOG

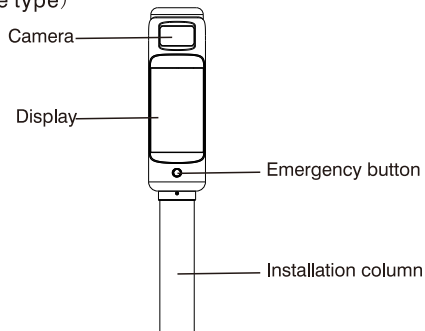
<b>Introduction .....</b>	<b>1</b>
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<b>Features .....</b>	<b>3</b>
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## Description

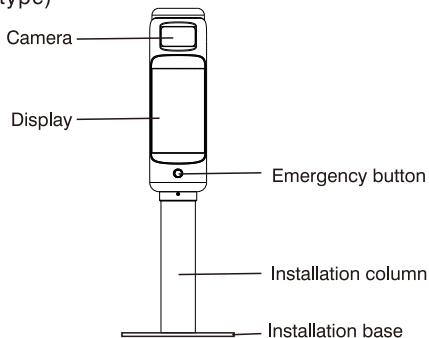
By comparing the real-time information collected from the user and the one stored in the system, Face Recognition System can control whether to enable the barrier gate or access control based on the comparison result. With single or dual cameras for liveness detection, the device can resist to common frauds, such as recognition by photo, different face, mask, shield or screen photocopying, in order to protect the interests of users. It's mainly applied in the scenarios which require door unlocking, including company, office building or residential area, etc.

## Appearance

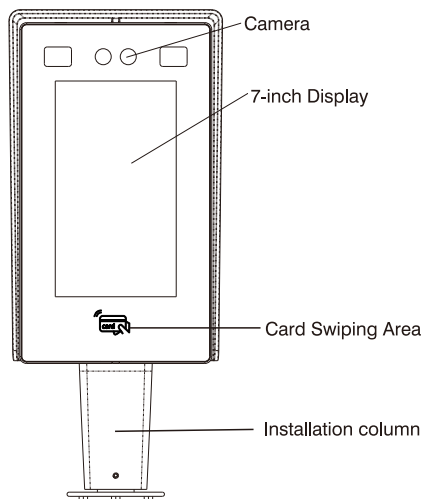
Model: K-Y2(Barrier gate type)



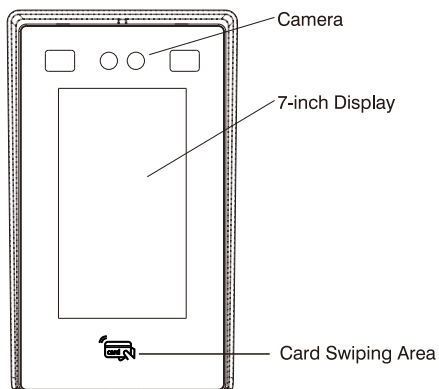
Model: K-Y2(Standing type)



Model: K-Y3(Column type)



Model: K-Y3(Wall-mounted)



## Features

- ◇ Support face recognition and comparison with the information stored in the system.
- ◇ Support access by IC card(Y3).

## Technical Parameters

- ◇ Working Voltage: DC12V
- ◇ Rated Power: 25W  
30W(Heating membrane)
- ◇ Standby Power: 5W  
10W(Heating membrane)
- ◇ Display screen: 7 " (1024RGB\*600)
- ◇ Working temperature: -10~+70℃  
-40~+70℃(Heating membrane)
- ◇ Storage temperature: -10~+60℃
- ◇ Storage Relative Humidity: 20%~93%
- ◇ CPU: 8 core 1.8GHz
- ◇ Flash: 8GB
- ◇ SDRAM: 2GB
- ◇ Camera: 1280\*720 CMOS

## Product Implementation Standard

- ◇ GA/T 394-2002 Technical Specifications for Access Control System;
- ◇ GA/T 1260-2016 General Technical Requirements for Electrical Channel Gates of Pedestrian Access;
- ◇ GA/T 18239-2000 Generic Specification for Integrated Circuit Card Reader;

# Operations

## ◇Face Recognition

When someone gets close to the sensing area of the barrier gate, the system will use the camera to acquire the face information and compare it with the information stored in the system. With single or dual cameras, the device can realize liveness detection to avoid fraud.

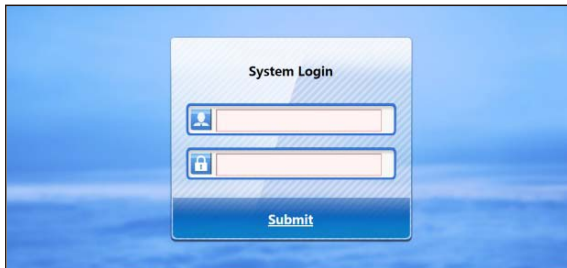
If the information refers to the same person, there will be a prompt of “Matched”.

## ◇Unlocking by Card (Y3)

Place the registered IC card close to the card swiping of face recognition device. If the card has been authorized, the system will issue a voice message of “the door is open”, otherwise it will emit a beep.

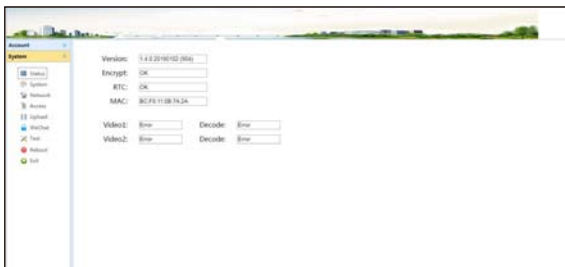
# Web Settings

Connect the Face Recognition Device to the computer through the switch. Enter the Face Recognition Device's IP address into a web browser (IP addresses of computer and Face Recognition Device must be on the same network segment), and then enter user name and password (default user name is “admin” and password is “123456”) to the following interface:

The image shows a web-based system login interface. It has a blue background with a subtle cloud pattern. In the center, there is a white rectangular box with a blue border. Inside this box, the title "System Login" is at the top. Below the title, there are two input fields: the first has a user icon on the left, and the second has a lock icon on the left. At the bottom of the box, there is a blue button with the word "Submit" in white text.

## 1.1 Status

Click “ Status” to enter the following interface:

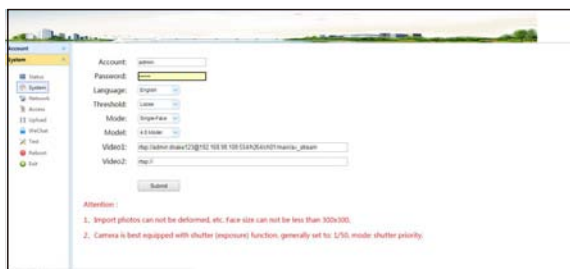
The image shows a web-based status interface. It has a light blue header with a landscape image. On the left, there is a sidebar with a tree view containing icons and labels for "System", "Network", "Device", "Upload", "Watch", "Test", "Reboot", and "Exit". The main content area displays system information: "Version: 1.0.0.20160102 (2016)", "Encrypt: OK", "RTC: OK", and "MAC: BC:FE:11:08:7A:24". Below this, there are four input fields labeled "Video1:", "Decode:", "Video2:", and "Decode:", each with a value of "Error".

The user can click Status to view the version information.



## 1.2 System Settings

Click the icon "  System " to enter the following interface:



Account:

Password:

Language:

Threshold:

Mode:

Model:

Video1:

Video2:

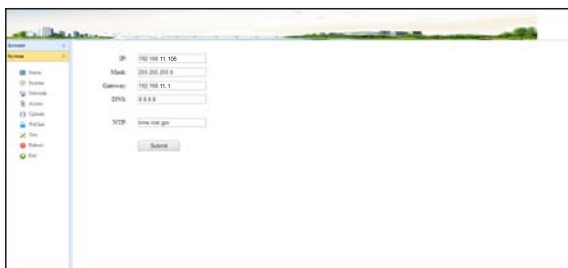
**Attention:**

1. Import photos can not be deformed, etc. Face size can not be less than 100x100.
2. Camera is best equipped with shutter (aperture) function, generally set to: 1/50, mode: shutter priority.

The user can change account name and password in this interface.

## 1.3 Network

Click the icon "  Network " to enter the following interface:



IP:

Mask:

Gateway:

DNS:

NTP:

IP: IP address cannot be repeated on the same network segment;

Mask: original subnet mask is 255.255.255.0. No change is required in general;

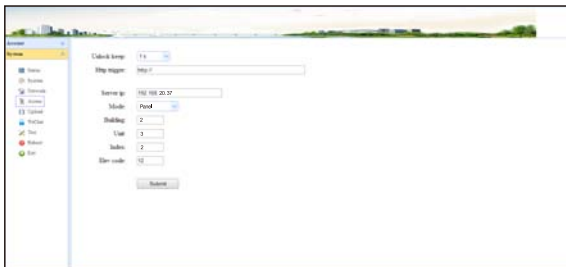
Gateway: fill it in according to IP network segment of project site;

DNS: IP address of DNS server;

NTP: NTP time synchronization

## 1.4 Access

Click the icon "  Access " to enter the following interface:



“Unlock Keep” is used for controlling unlocking time, ranging from 1 to 9 seconds.

Http trigger: remote unlocking;


Mode: Unit Panel or Wall Panel .

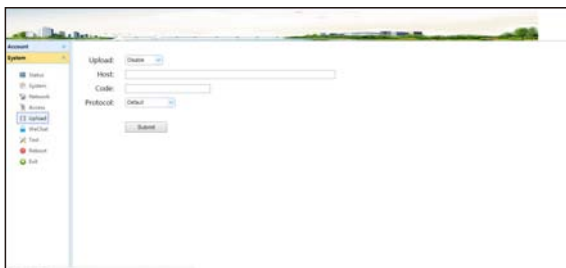
Building No. and Unit No. refer to the ones where the device is located.

Elev Code: floor No. of outdoor panel, ranging from 01 to 99.

When Index is set to be 1, the device is main outdoor panel; when Index is set to be 2-9, it is sub outdoor panel.

## 1.5 Upload

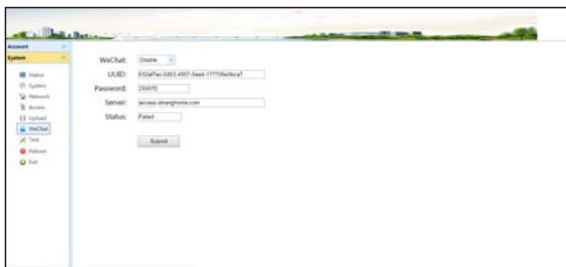
Click the icon "  Upload " to enter the following interface:



As the interface shows, the user can upload card swiping data.

## 1.6 WeChat

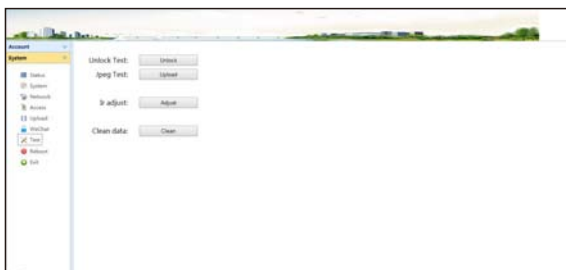
Click the icon "  WeChat " to enter the following interface:




The user can enable WeChat, allowing unlocking by WeChat official account.

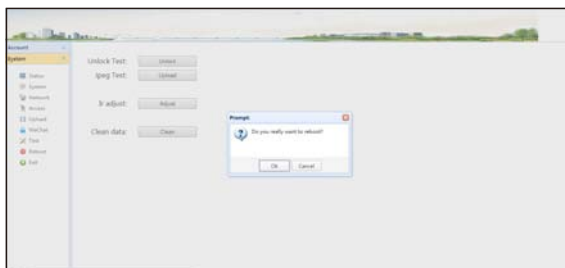
## 1.7 Test

Click the icon "  Test " to enter the following interface:



## 1.8 Reboot

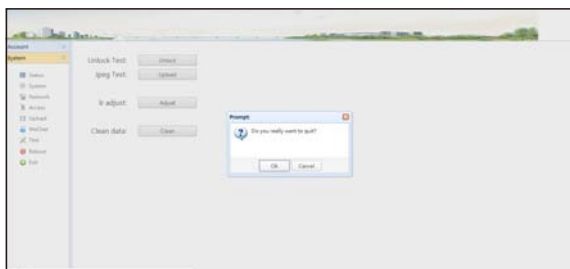
Click the icon "  Reboot " to enter the following interface:



Click "OK" to reboot the device.

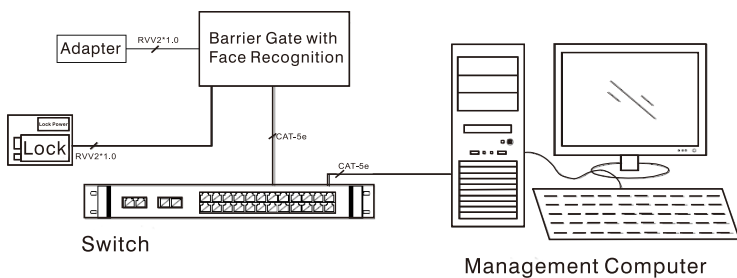
## 1.9 Exit

Click the icon "Exit" to enter the following interface:

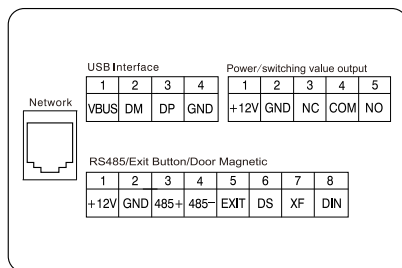


Click "OK" to log out.

# System Configuration

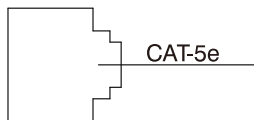


# System Diagram



## 2.1. Network Interface

Standard RJ45 interface: connect to management center, indoor monitor or other network equipment through network switch.

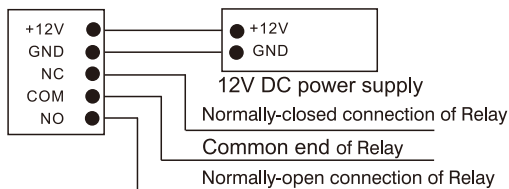


Network Interface

## 2.2. Power/Switching value output

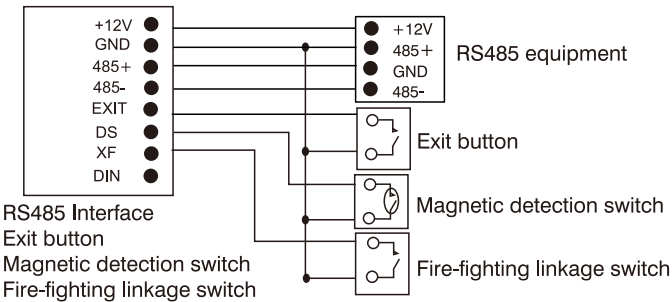
Power interface: connect with 12V DC Power Supply;

Switching value output: connect with electric lock. Y2 relay terminal can withstand the lock current of max. 3.5A and Y3 relay terminal can withstand the lock current of max. 1A. Independent power supply is required for the lock.



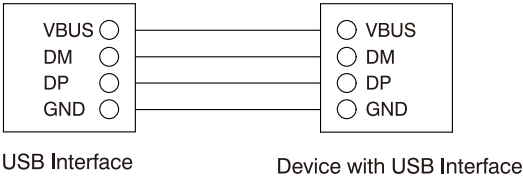
2.3. Exit Button/Door Magnetic/RS485 interface

It can connect to the equipment with RS485 interface. RS485 interface can output 12V/100mA power.



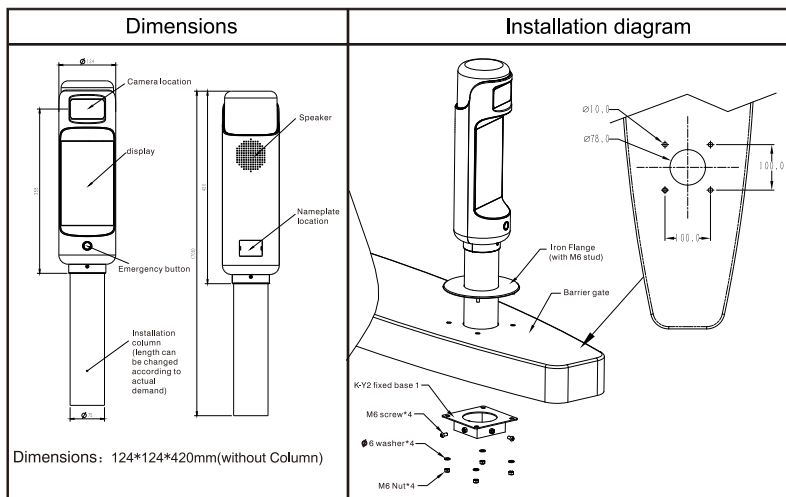
2.4 USB Interface

Connect to the device with USB interface, supporting USB 2.0 Device;  
USB interface can output 5V/500mA power.

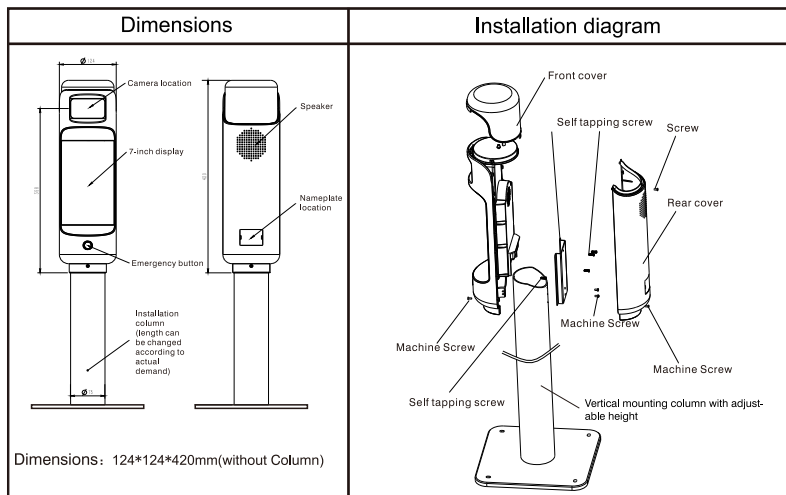


# Installation instructions

## Model: K-Y2(Barrier gate)

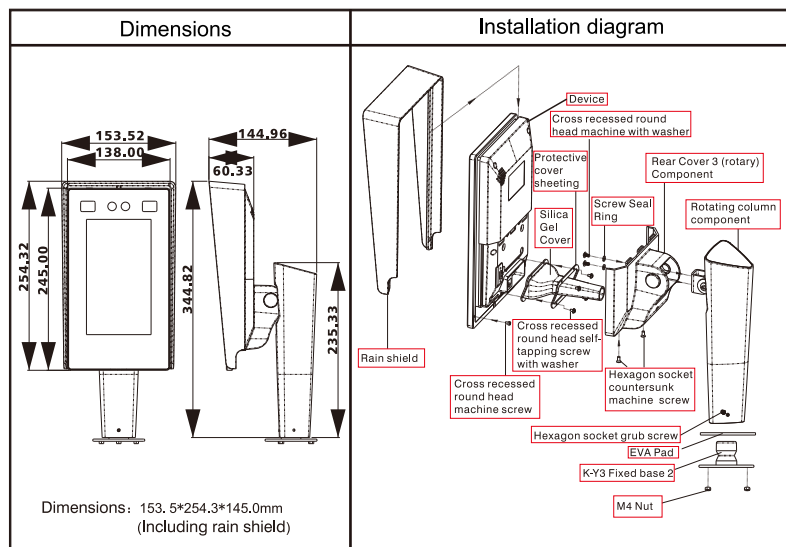


## Model: K-Y2(Standing type)

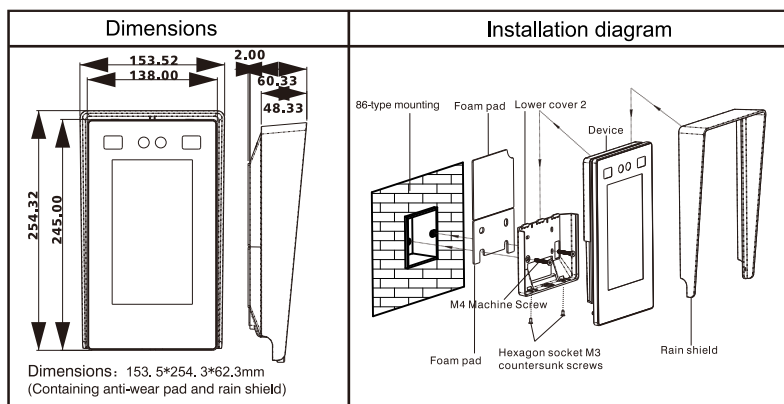




# Model: K-Y3(Column type)



# Model: K-Y3(Wall-mounted)



## Troubleshooting

Some common failures and troubleshooting methods are listed for your reference. In case of failure which cannot be repaired, do not disassemble or repair the product by yourself. Please contact the after-sales service department.

When outdoor panel fails to call indoor monitor:

- a. When setting villa outdoor panel, please make sure building No. and unit No. of outdoor panel is the same as the ones of indoor monitor;
- b. Please check whether the network is connected;
- c. Please check if there are any security settings for the network, such as VLAN configuration;
- d. Indoor monitor cannot be set as sub device only. Main device is required.

# Safety & Precautions

## Safety & Precautions

To protect you and others from harm or protect your device from damage, please read the following information before using your device.

Do not install equipment in the following areas:

- Do not install equipment in high temperature, humidity, near the magnetic field, such as generators, transformers or magnets, etc.
- Do not place the equipment near the heating items such as the electric heater or the liquid container.
- Do not place the device directly in the sun or near the heat source, which may cause the body to be discolored or deformed.
- Do not install the equipment in an unstable position to avoid the property losses or personal injury caused by the falling of device.

### **Prevent electric shock, fire and explosion**

- Do not use damaged power cord, plug or loose power outlet.
- Do not touch the power cord with wet hands or unplug the power source by pulling the power supply.
- Do not bend or damage the power cord.
- Do not touch the equipment with wet hands.
- Do not let the power slide, or cause a collision.
- Do not use power supply without manufacturer approval.
- Do not splash water or other liquids into the equipment.

### **Clean fuselage surface**

- Use a soft cloth dipped in a small amount of water to clean the surface of the machine and dry it with a dry cloth.

### **Other matters needing attention**

- In order to prevent damage to the paint or shell, do not expose the device to chemical products, such as thinner, gasoline, alcohol, insect repellent, sunscreen, or pesticides, etc.
- Do not beat or hit the device with a hard object.
- Do not disassemble, refit or modify the device at your own discretion. The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
- When the device emits abnormal sound, smell or smoke, unplug the power immediately and contact the customer service center in time.
- If you do not use the device for a long time, it is recommended to unplug the power adapter, take out memory card and put the device in a dry environment.

