

FK05

# SMART DEVICE MANUAL

# Application Environment

- The Smart AI Face Recognition Device Developed By Longse Technology is Remarkably High-performance, High-reliability Product. It Works In Fast Detection And High Accuracy To Capture Face Information For Identification And Comparison, Which is Relled On Infrared Thermal Imaging Technology And Deep-learning Agorithm. The Body Temperature Will Be Collected When Personel Was Detected, Which Could Be Applied To Gateway Scenarios To Achieve Quick Passage For Both Entry And Exit Control , And Maximize The Eiciency Of Smart Epidemic Prevention.

## Product Features

- Temperature Measuremen  
It is Safer Without Touch As The Body Temperature Is Detected By Face Reognition Within A Distance Of 0.5m-2m Based On Infrared Thermal Imaging Technology.
- Identity Recognition  
Automatic Capture Faces For Identity Recognition Without Removing The Mask.
- Fever Warning  
Object's High Temperature Warning Threshold Automatic Voice Alarm Mechanism.
- Data Management  
It Can Form The Collecting Temperature Data into A Table, And Upload The Logs Of Snapshot To The Database By its Network-uploading Function, FinallyPose To The Desianated Administration in Real Time.

# Features



Face Recognition

Living body  
Anti-counterfeiting



Remote Temperature  
Measurement

0.7-1.2 Meters  
Temperature Measurement



Mask Detection



Unknown Guest



Abnormal Voice Alarm



Record Traceability



Data Analysis



Access Control



Swipe Card Check in/out



Visitor

# FK05GRW

## Features

- ☒ Face Recognition
- ☒ Face Comparison
- ☒ Temperature Measurement
- ☒ 4G SIM CARD
- ☒ Mask Recognition
- ☒ Data Analysis
- ☒ Unknown Guest
- ☒ IC Card
- ☒ WIFI IOT
- ☒ Support Wifi NVR
- ☒ APP Management

## Mode

- ☒ Face Recognition
- ☒ Temperature Measurement
- ☒ Access Control
- ☒ Attendance
- ☒ Gate
- ☒ Visitor
- ☒ Remote
- ☒ Record



# Parameters

## Screen size

10.1 inch HD IPS screen

## Wi-Fi

2.4 G / 5.8 G dual-band

## Capacity

30000

## Face recognition distance

0.5~2m

## Temperature measurement error

±0.3°C

## Fill light

Infrared light filling,  
white light filling

## Resolution

1280\*720

## IC Card

Supports Mifare1 chip cards

## Offline records

50000

## Temperature detection distance

0.7-1.2m

## Temperature measurement range

35-42°C

## 4G (optional)

Support domestic, Europe, Southeast Asia  
And other areas of 4G spectrum

## Pixels

1920\*1080@30fps

## System

Linux

## Precision

99.5%

## Face recognition speed

≈200ms

## Power input

DC 12V

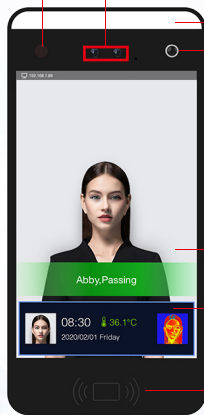
## Recognition

Support face recognition, face comparison,  
Mask detection, in vivo detection,  
mask identification



# FK05GRW

Infrared light    2MP 4.5mm Lens    White Light  
Thermal Imaging Sensor



10.1 inch IPS HD Screen

Recognition Result

Swipe Area

Aluminum Alloy

512G SD Card Slot

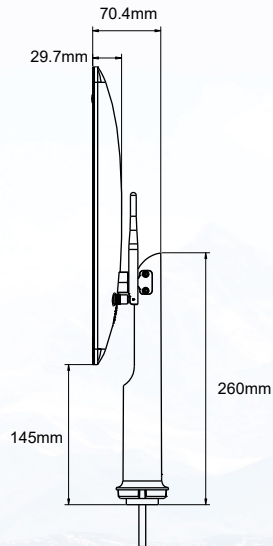
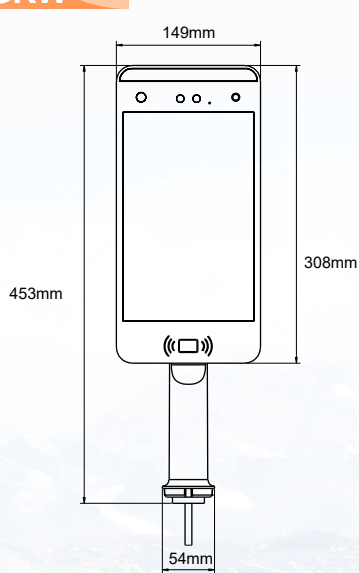
4G Antenna

2.4G/5.8G WiFi Antenna

Loudspeaker

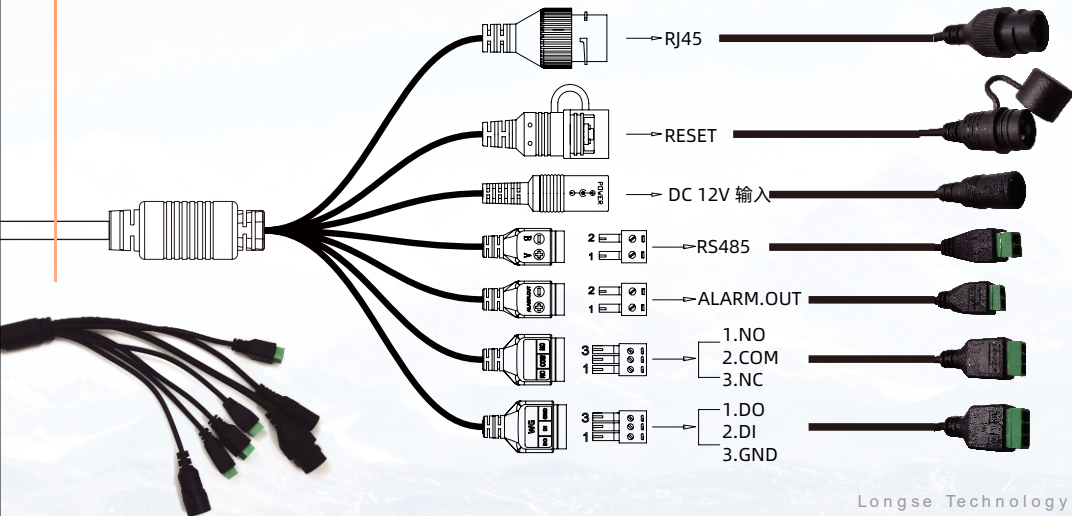


# FK05GRW



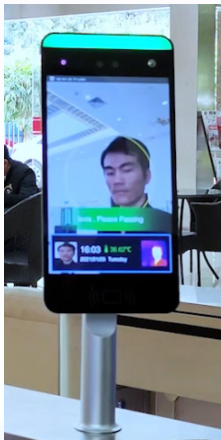
# FK05 Series

+ Wire

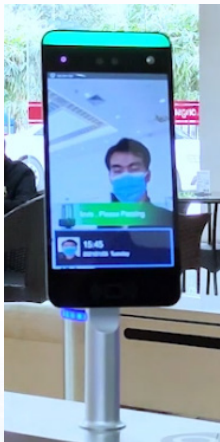




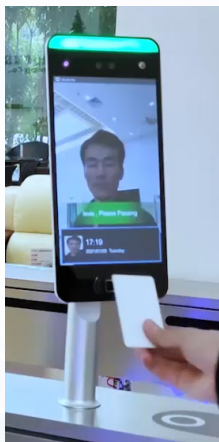
## Verification Mode



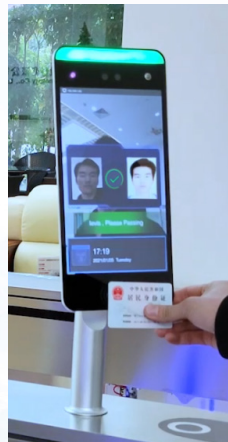
Face recognition



Mask recognition



IC Card swipe

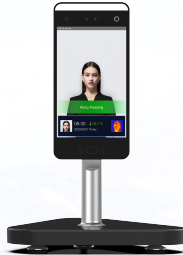


ID card

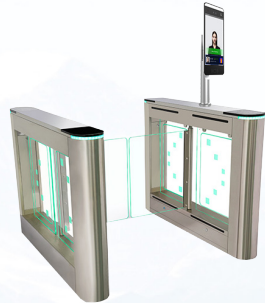
# Installation



✓ Post



✓ Desktop



✓ Brake machine

FK05

## + Default Configuration

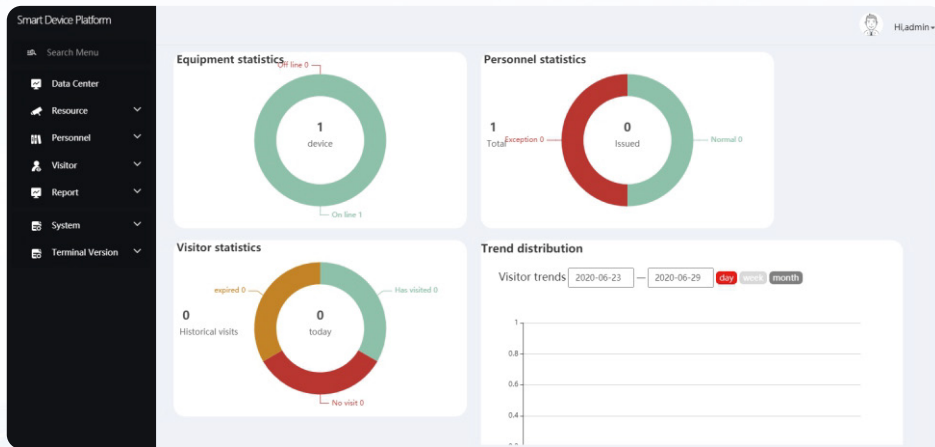
Conf. — 🗖 ×

Basic Parameters	Network Config	Remote Config	Version Info	Function Parameters
Temperature Check				<input type="checkbox"/> No
Alarm Temperature				37.299999
Stranger Access				<input type="checkbox"/> No
Check Mask				<input type="checkbox"/> No
Save Photo				<input type="checkbox"/> No

Cancel Reset Set

FK05

## + Data Analysis



FK05

## + Visitor Management

Smart Device Platform

Hi,admin

Search Menu

- Data Center
- Resource
- Personnel
- Visitor
- Report
- Personnel Access**
- Abnormal Access
- Visitor
- System
- Terminal Version


Personnel No.  Name  Mobile Phone No.

Certificate Type  Certificate No.  Personnel Type:

Department Name  Accessible Area:  Time

Device Name

Export

Picture	Personnel Type	Personnel No.	Name	Gender	Mobile Phone No.	Department Name	Certificate Type	Certificate No.	Visit Time	Accessible Area	Device No
	Programmer	001	CZD	Man	18888888888	R&D			2020-6-29 16:31:25	Gate	002

Visitors Allowed Pass By Registration

FK05

## + Unkown Guest Logs

Smart Device Platform

Search Menu

Data Center

Resource

Personnel

Visitor

Report

Personnel Access

**Abnormal Access**

Visitor

System

Terminal Version

HIadmin





Personnel No.  Name  Mobile Phone No.

Certificate Type  All  Certificate No.  Personnel Type  All

State  All  Department Name  All  Accessible Area:  All

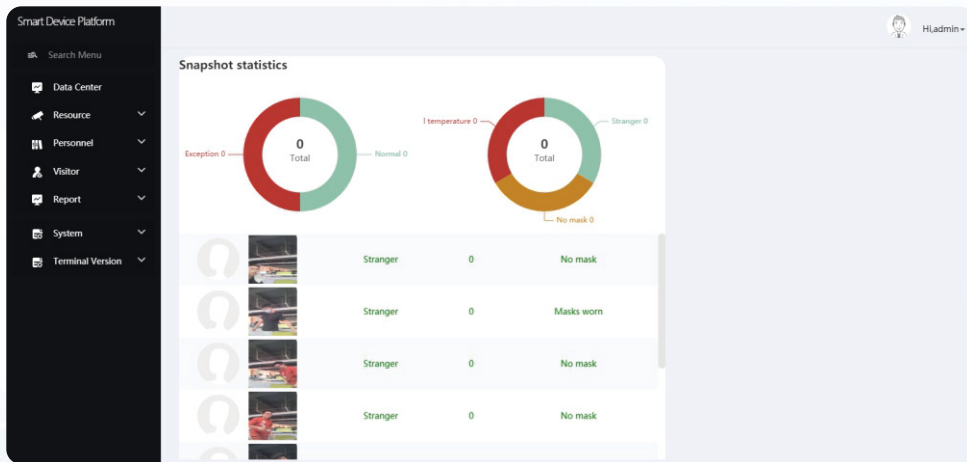
Time  —  Device Name  Exception Type  All

Solve

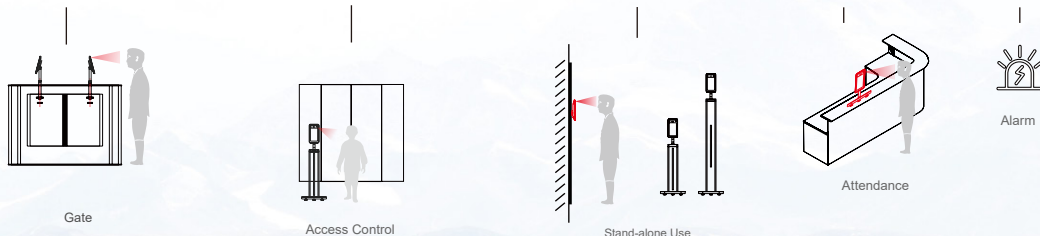
<input type="checkbox"/>	Picture	Personnel Type	Personnel No.	Name	Gender	Mobile Phone No.	Department Name	Certificate Type	Certificate No.	Visit Time	Acc
<input type="checkbox"/>		Stranger								2020-06-29 15:27:23	D
<input type="checkbox"/>		Stranger								2020-06-29 15:27:12	D
<input type="checkbox"/>		Stranger								2020-06-29 15:27:09	D
<input type="checkbox"/>		Stranger								2020-06-29 15:26:59	D

FK05

+ Record



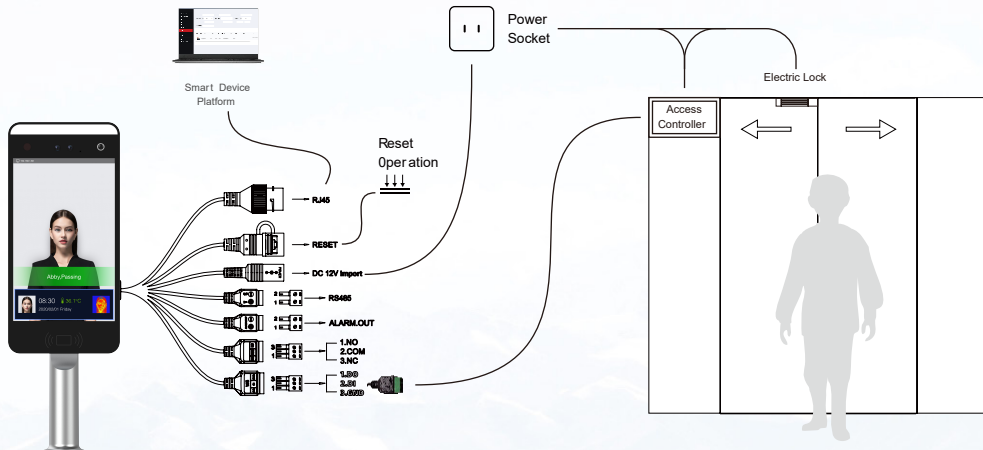
# AI link





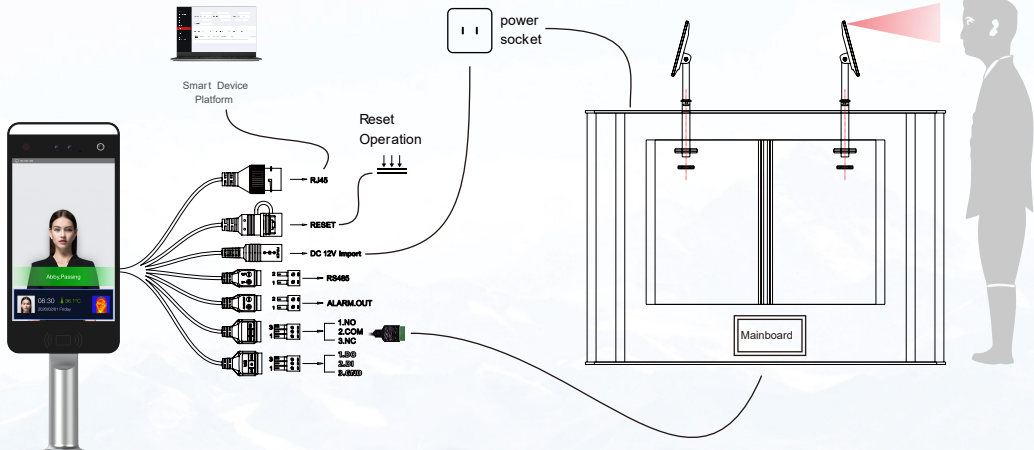
# FK05 Extended

## + Access Control



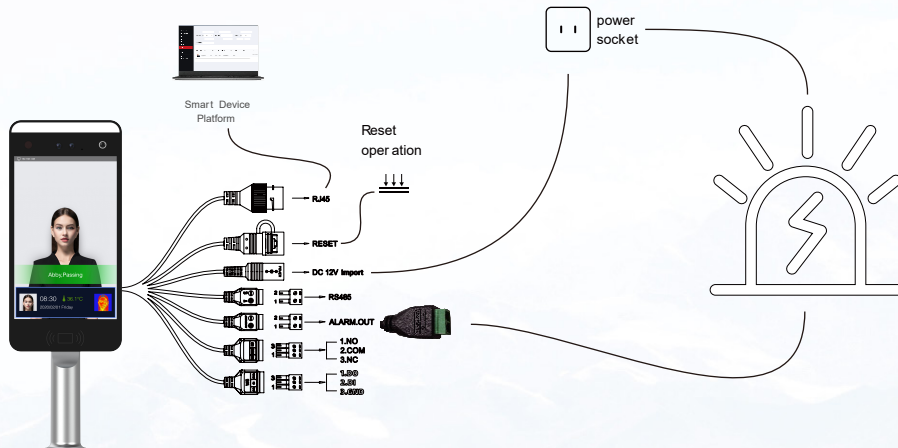
# FK05 Extended

## + Gate



# FK05 Extended

## + Alarm



## AI Face Recognition Temperature Measuring Device

My Device



System Config.



Network Configuration



User Rights



Equipment Maintenance

Date

DST

Image Configuration

Display Configuration

Sound Configuration

Fill Light Configuration

Maintain

Turn on the fill light

☒ Enable ☐ Close

Fill Lamp Brightness

0 255

111

Restore Default

Save

# Network

## + TCP/IP, Wifi, 4G, MQTT, SMTP

AI Face Recognition Temperature Measuring Device

My DeviceRecordSystem Config

System Config

Network Configuration

User Rights

Equipment Maintenance

TCP/IP

WIFI

4G

MQTT

SMTP

4G Open

☒ Enable ☐ Close

APN

cmnet

User Name

Password

Restore Default

Save

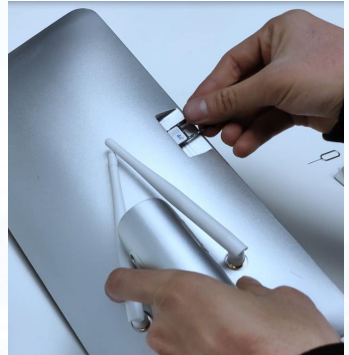
## Network



Connect the network cable



Install WiFi antenna





Plug in 4G phone card


# Record


## + Playback, Pass records, Temperature Measurement Records


**AI Face Recognition Temperature Measuring Device**My Device**Record**System Config.


  
Playback

  
Pass Record

  
Temperature Measurement Record

 Record File

 Player Mode

Date:  

Query

Download

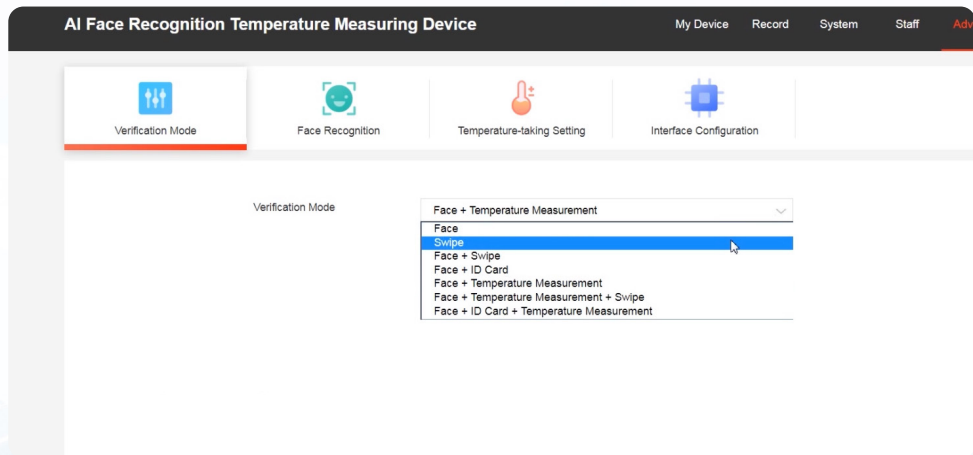
<input type="checkbox"/>	No.	File Name	Start Time	End Time	File Size	Download Progress
--------------------------	-----	-----------	------------	----------	-----------	-------------------

< 1 >

Total 1 P

Advance

+ Verification Mode

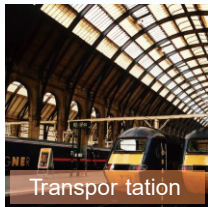




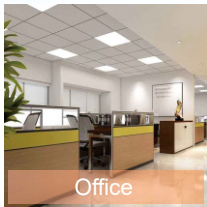
# FK05 Series



Application



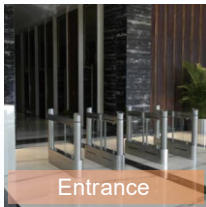
Transportation



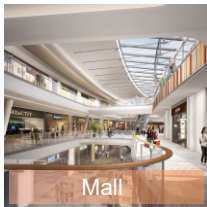
Office



Supermarket



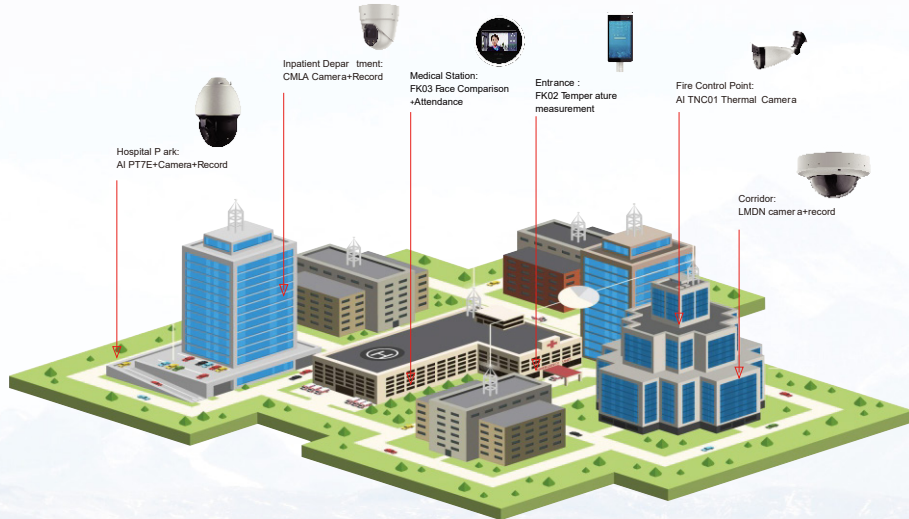
Entrance



Mall

# Solution

## + Hospital



# Solution

+ School

Teachers' office :  
FK03 Face comparison  
+Attendance



School entrance:  
FK02 Face temperature  
measurement



classroom the corridor:  
AI BMMB camera +record  
+Face recognition



classroom:  
CMLB camera +record



playground:  
AI PT7E camera +record



# Solution

## + Community



Pedestrian Street:  
AI BMLA Camera+record



Monitoring System Upgrade:  
POE Kits



FK03 Face Comparison  
+Attendance



Entrance:  
FK05 Face Recognition +RF Card  
+ID Verification+Access



High Altitude Surveillance:  
AI PT7E Camera+Record



# Solution

## + Shopping Mall



# THANKS