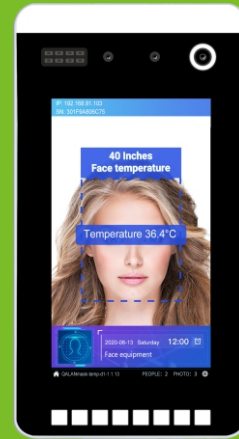# Face Recognize Thermal Temperature Monitoring Solution

FTZN-001

Application scenario

Suitable for office areas, hotels, access gates, office buildings, schools, shopping malls, shops, communities, public service and management projects and other places where face access control is required.

Product Features

1. Support camera to capture face to activate device;
2. Human body temperature detection using thermal imaging; with access control attendance function;
3. Automatic alarm when human body temperature is higher than 37.3'C (customizable temperature value);
4. Using RGB and living body dynamic binocular camera;
5. Supports serial port, Wiegand 26, 34 input and output;
6. Using video stream-based dynamic face detection, tracking recognition algorithm;
7. Support device local storage of 10,000 face libraries;
8. When the face database is 3,000 , misrecognition rate is 3 in 10,000, 1 : N recognition accuracy rate is 99.7%;
9. Fast recognition speed: (a) face tracking and detection takes about 20ms, (b) face feature extraction takes about 200ms, (c) face comparison takes about 0.2ms(1000 people database, multiple identification to get the average), 0.5ms(10,000 face database, multiple identification to get the average);
10. Binocular with infrared fill light camera;
11. Support live photo saving during face recognition or stranger detection;
12. Support HTTP Interface connection;
13. Support public network and local area network deployment;
14. Support stranger compared with ID card function;
15. Provide SDK development kits to support docking with major enterprises and institutions (docking);

Precautions for use: this temperature measuring product can only be used indoors, and the ambient temperature is between 10°C and 30°C. It cannot be used outdoors or under sunlight.

This product is not used as medical equipment!

Screen

Size	7 inch, LCD
Brightness	500 LU
Resolution	1024*600 HD screen

Camera

Resolution	200W*200W
Camera quantity	2
Type	RGB camera, living body dynamic binocular camera, thermal imaging camera
Aperture	F2.0
Focal length	6mm
White balance	Automatic
Wide dynamic	Support
Vertical wide angle	52°
Horizontal angle	29°

Core parameters

CPU	4 cores, 1.8GHz
Device interface	2GB memory, 8GB storage

Interface

Audio	1 audio output (line out)
Video	HDMI2.0 Type-A interface 1
Serial communication interface	1 RS232 interface
Relay output	1 relay interface
Wigan output	1 Wiegand output interface, supports Wiegand 26 and 34
Wigan input	1 Wiegand output interface, supports Wiegand 26 and 34
Network Interface	1 RJ45 10M / 100M adaptive Ethernet port, WIFI

Features

Face Detection	Supports detection and tracking of 5 people at the same time
1:N face recognition	Under the false recognition rate is 3 in 10,000,the recognition accuracy rate is 99.7%
Stranger detection	RGB camera, living body dynamic binocular camera, thermal imaging camera
Identify distance configuration	Support
Living body detection	Support
UI interface configuration	Support
Remote device upgrade	Support
Deployment method	Support use public network and local area network
Stranger compared with ID card	Support (Purchase ID card reader separately)

Human temperature detection

| Human temperatur	Support
Temperature detection distance	< 1m
Temperature measurement accuracy	$\leqslant \pm0.5°C$
Temperature measurement range	30°C~42.5°C
Thermal imaging field	Support
Visitors' temperature is normal then released directly	Support
Body temperature alarm value can be set	Support
Body temperature over temperature alarm	Support

General parameters

Protection class	Ip42, certain dust and water resistance
Power supply	DC12V (ffl10%)
Operating temperature	−10°C~60°C (Optional thermostat)
Working humidity	10%~90%
Power consumption	10W MAX
Dimensions	L240 x W126 x H27 (mm)
Weight	≈2kg

Dimensions(mm)

240mm

126mm

195mm

27mm

Installation

A. Appearance instructions
Interface

Relay output
Network Interface
DC12V power supply
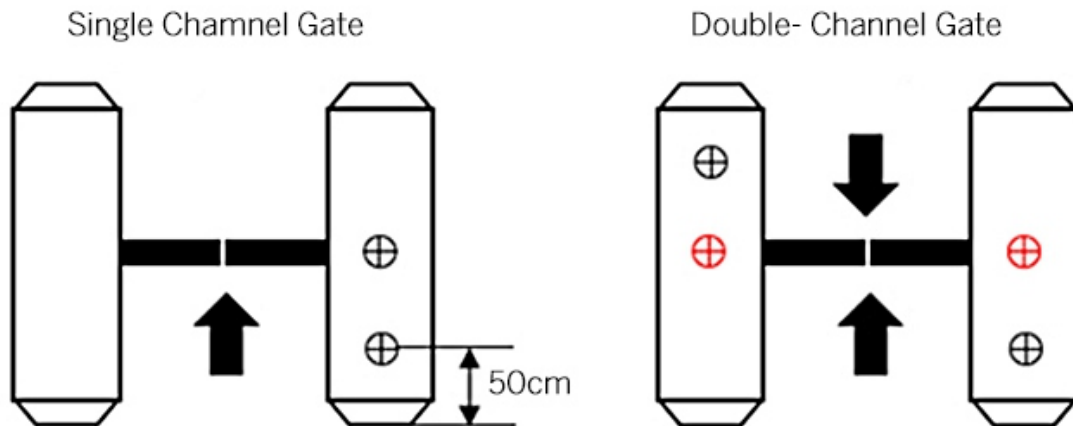USB interface
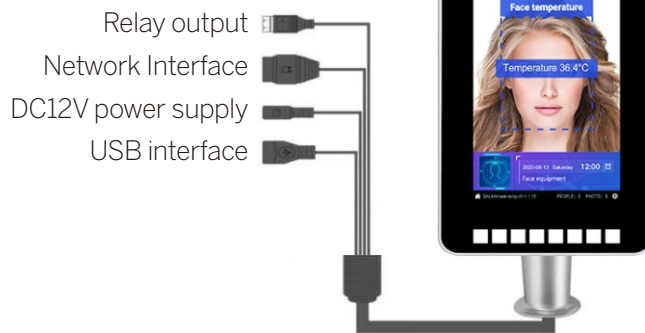
B. Appearance Instruction Description

According to the requirements of the installation site, in the space position on the gate, generally a hole of 35mm diameter is opened in the middle or front side. As below image, ⊕ is the suggest place for open a hole.

Single Channel Gate

50cm

Double- Channel Gate

Note: The position of the hole should be based on the actual application scenario and gate type, 50cm is only a reference value.