# Welcome to

Face Recognize & Temperature Measurement System

The Problem

The coronavirus is outbreaking throughout the world. Enterprise, Industrial, Schools, Commercial Squares, Communities, and other places have complex people traffic flow.

How do we manage the epidemic prevention control, temperature control to ensure the normal site operation, personal health and life safety?
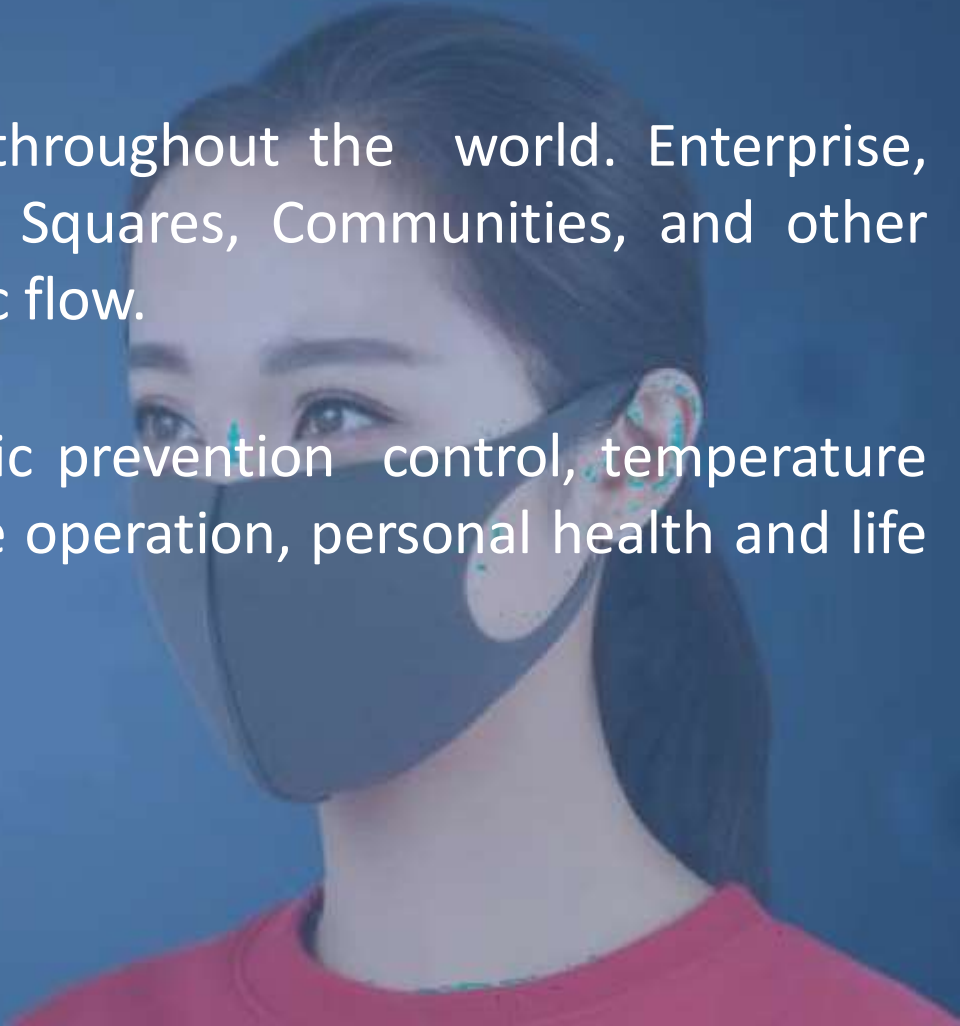
Real-Time Temperature Display

The detecting position

The comparison results

Face Recognize & Temperature Measurement System

- Is operated based on Artificial Intelligence, IoT and Big data analytic technology. It provides rapid body temperature detection and mask wearing detection together with the instant alert notification system.
- There are 2 different solutions which are local management solution and network management version.
- Officers can manage and collect the real-time information regarding facial analytic, body temperature and mask wearing information effectively to assist epidemic prevention.

Applications

School

Factory

Industry

Community

Supermarket

Bank

How it work

Local Management System

Face Recognize & Temperature Measurement System

Real-Time Temperature Display

The detecting position

The comparison results

Temperature: 36.2 (Normal)
Mask: No mask, notify and alert

Cannot Access

Temperature: 39 (High)
Mask: mask, notify and alert

Temperature: 36.6 (Normal)
Mask: With mask (Allow Access)

Allow Access

Send Notification to administration office

Instant Alert Guard In Charge

Real time to view status via Back End Platform

Temperature: 36.2 (Normal)
Mask: No mask, notify and alert

Temperature: 39 (High)
Mask: mask, notify and alert

Temperature High?
No Wear Mask?
YES

Not Allow Access

Temperature: 36.6 (Normal)
Mask: With mask (Allow Access)

Gate Open Allow Access

Ready to Network

Mobile Application

Mobile Application

Mobile Application

Mobile Application

Mobile Application

Internet/ SMS

Head quarter

XML, Text files, Spread sheets

Business System

Mobile Application Server and Host Integration Gateway

Reporting

Business System Client

Order Entry and Validation @ Business System Client

ASPIDA
Safety Footwear

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Function

- High precision thermal screening, single object detection, accuracy up to ±0.3C.

- Abnormal body temperature alert system.

- No mask alert system.
- Cloud data management system including facial recognition, personal information, body temperature and mask wearing condition.

- Multiple point real time data monitoring.
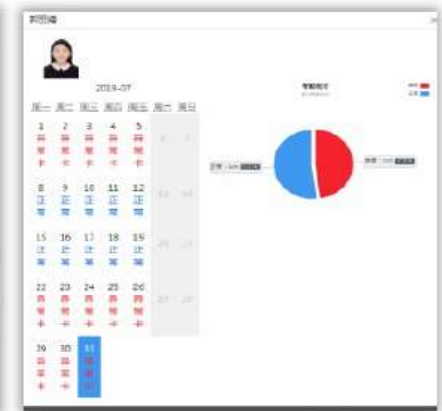- Data analytic and prediction.
- Key person & high-risk condition alert System.

Platform

1. Role Management, Feature setting and Device Management System.
2. Visitor Management System and data visualization including facial data and visitor records.
3. Abnormal body temperature Alert. No mask wearing Alert.
4. Suspect visitor control to reduce the risk.
5. Time Attendance System. Real time recording and data monitoring.

Hardware

Hardware	
Chipset	Hi3516DV300
System	Linux operation system
RAM	16G EMMC
Image sensor	1/2.7" CMOS
Lens	4.5mm
Camera Parameters	
Camera	Binocular camera supports live detection
Effective pixel	2Mega pixel，1920*1080
Min. lux	Color 0.01Lux @F1.2(ICR);B/W 0.001Lux @F1.2
SNR	≥50db(AGC OFF)
WDR	≥80db
Face Recognition	
Height	1.2-2.2 M, angle adjustable
Distance	0.5-2Meters
View angle	Vertical ±40 degree
Reco. Time	＜500ms
Function	Support 22400 faces database and 100000 records

Hardware

Temperature	
Range	30-45（℃）
Accuracy	±0.3（℃）
Distance	0.3-0.8M
Response time	＜300ms
Interface	
Internet interface	RJ45 10M/100M Ethernet
Weigand port	Support input/output 26 and 34
Alarm output	1channel relay output
USB port	1USB port (Can be connected to ID identifier）
General	
Power input	DC 12V/3A
Power consumption	20W(MAX)
Working temperature	0℃ ～ +50℃
Humidity	5～90%, no condense
Dimension	123.5(W) * 45.5(H) *266(L)mm
Weight	1.9kg

**Precautions:**

- The temperature measuring device should be used in a room with a room temperature between 10 ℃ -40 ℃.
- Do not install the temperature measuring device under the vent, and ensure that there is no heating source within 3 meters;
- Personnel entering the room from a cold outdoor environment will affect the temperature measurement accuracy.
- The forehead temperature test should be performed after the forehead is unobstructed for three minutes and the temperature is stable;
- The temperature read by the temperature measuring device is the temperature in the forehead area. When there is water, sweat, oil or thick makeup on the forehead or the elderly have more wrinkles, the read temperature will be lower than the actual temperature. Make sure there is no hair or clothing covering this area.

Gate installation

According to the requirements of the installation site, in the space position on the gate or in the front side, the opening diameter of the 7-inch access control machine is 30mm, and the opening diameter of the 8-inch access control machine is 35mm.The diagram is as follows:

单通道闸机
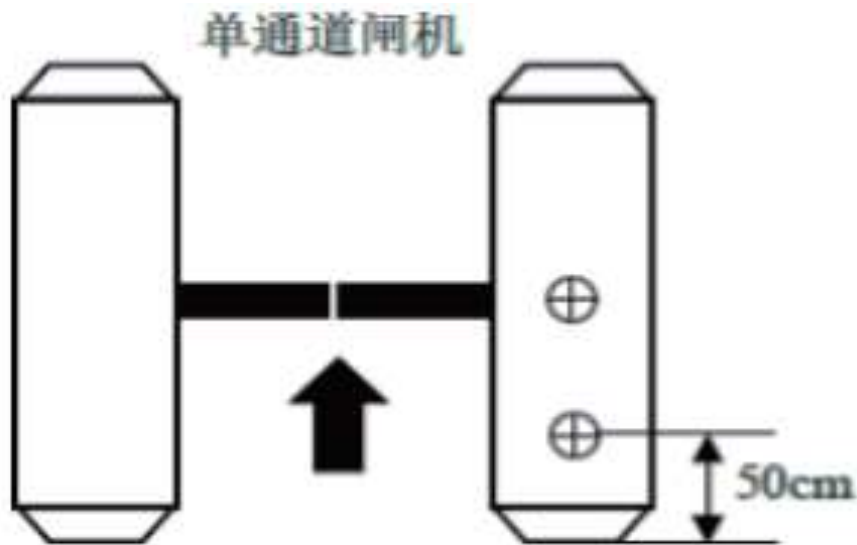
Single channel gate

双通道闸机

50cm
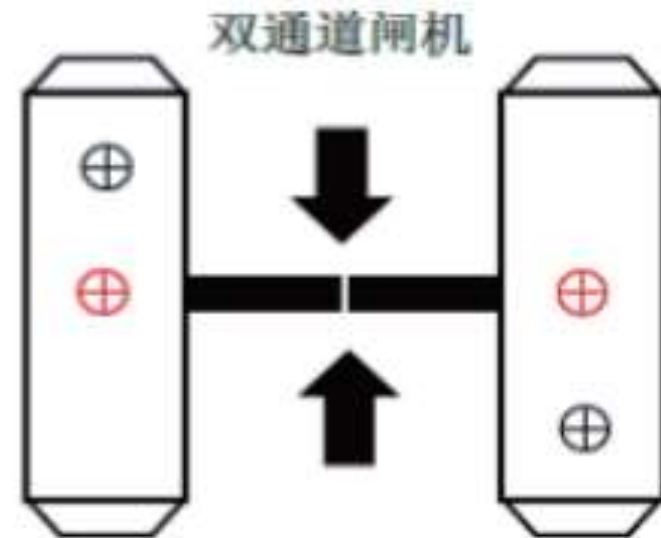
Two channel gate

Adjust angle of temperature detector

After the temperature measurement access control is fully activated, the human face is directly facing the device. Observe the face image on the device screen. Make sure that the bare skin on the forehead is placed in the "temperature measurement area" (optimal temperature detector distance 0.5m). After that, paste the "Please stand here" detection position mark at the corresponding distance.

0.5m

Gate   Installation Position   Detecting Position

Temporary test position, (Tripod mounting)

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