UTEPO

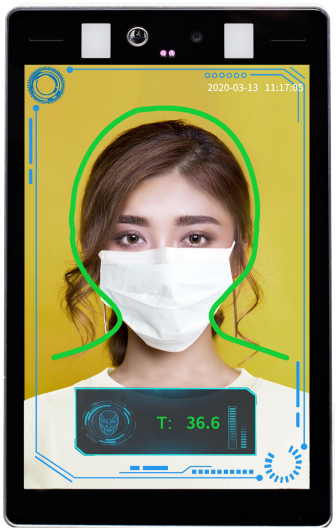
Facial Recognition Access Control Terminal

Thermal Body Temperature Measurement Module Biometric Detection
2MP Facial Recognition 8 Inch LCD Screen

Introduction

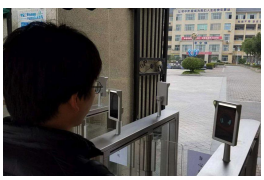
Combining with technology of Infrared temperature measurement and deep-learning facial recognition, TS3080-AI can support infrared temperature measurement, voice alarm, body temperature statistics, abnormal body temperature logging & reporting, etc. TS3080-AI can do facial recognition and measurement with fast-speed, long-distance, accurate, low error. It is mainly used to measure temperature each person each time in the scene of with fewer people.

TS3080-AI

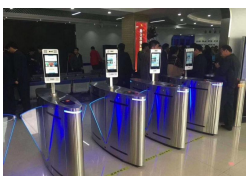


- Built-in non-contact thermal temperature measurement module and biometric measurement system
- The range of temperature measurement is from 35℃ to 42℃ with deviation of ±0.3℃
- Support voice alarm about abnormal body temperature
- Built in MEGVII's FACE++, the deep-learning facial recognition technology
- Support face database of 50,000 pictures, 100ms fast identification
- Support face recognition, face mask recognition, body temperature measurement
- Excellent environmental adaptability to low light and strong backlight, support automatic exposure on face
- Support information recording of recognition result and body temperature to keep the traceability
- 1/2.8'' 2MP line-by-line scanning image sensor, excellent low illumination
- 8 inch LCD display screen, effective pixels: 1920*1080 @30fps
- Support 2D, 3D digital noise reduction technology, clean picture, small noise
- Support H.265+ /H.265 / H.264 / MJPEG video compression algorithm, multi-level video quality configuration, coding complexity settings
- Support Linux, with stable and extendable software architecture
- Rich port design with Ethernet port, Wiegand port, relay port
- Power consumption: 5W
- Ultra-thin all-aluminum alloy metal casing with stylish design
- Support installation on gate machine, pole and wall

Application

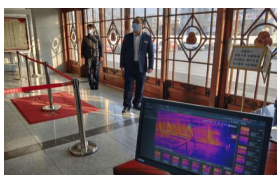


Commercial Building
Community



Government

School



Bank

Specification

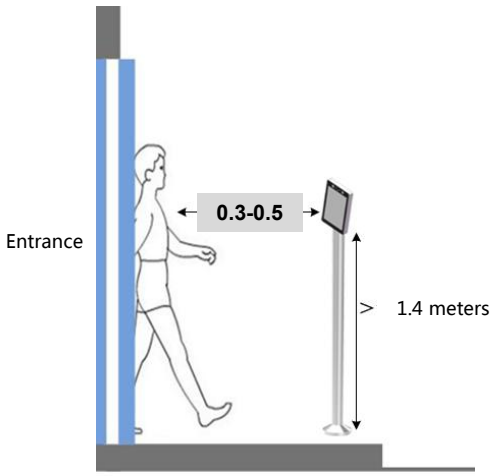
Item	Specification
CPU	ARM Cortex A9
Display Screen	8 inch LCD
Operation System	Linux
Thermal Parameters	
Sensor	Thermal image infrared temperature sensor
Temperature Measurement	Range: 35℃~42℃，Deviation: ±0.3℃
Detect Distance	0.3 ~0.5 (Meters)
Visible Light Parameters	
Lens	Focal length: 1.8mm. Filed angle: 118°
Minimum Illumination	0.005Lux@F1.2 color pattern
Dynamic Range	≥120dB
SNR	≥46dB（AGC OFF）
Exposure Mode	Program mode (customizable shutter interval), shutter mode (1/5-1/20,000s), support slow shutter
White Balance	Automatic, indoor, outdoor, sodium lamp mode, manual
DNR	DNR,3DNR
Day-night Mode	Fixed color
Image and Compression	
Video Compression	H.265 Main Profile / H.264 High profile / M-JPEG
Max Resolution	1920x1080@30fps
Resolution (Main)	1920x1080, 1280x960, 1280x720, 720x576
Resolution (Secondary)	640x480, 352x288, 320x240, 176x144
Resolution (MJPEG)	1920x1080, 1280x720, Turn off
ECOC Rate	CBR / VBR. Value range: 32Kbps~10Mbps
Audio Compression	G711, PCM
Algorithms	
Face Database	Max 50,000
Recognition Speed	≤300ms
Biometric Recognition	Support
Face Mask Recognition	Support
Abnormal Temperature Alarm	Support（Voice Alarm）
Hardware Port	
Power Input Port	DC12V
Ethernet Port	1*10/100Base-TX RJ45
Wiegand port	1*Output
Relay Port	1*Output
MIC	Built-in
General	
Operating Temperature	10°C ~ 30°C
Operating Humidity	0%-90% RH (Non-condensing)
Power Consumption	5W
Dimension	215x125x20mm
Weight	< 1kg

Interface Drawing

SN	Name	Description
1	Power Input Port	12VDC
2	Ethernet Port	RJ45
3	Relay Port	+ : NO - : COM
4	Wiegand Port	1 : 12VDC 2 : D1 3 : D0 4 : Singnal Ground

Installation

1. The equipment should be installed in front of the passage to keep a front face capture.
2. The recommended installation height is 1.4 to 1.6 meters, the overlook angle is 0~15°.
3. To ensure effective temperature measurement, the recommended distance between the equipment and checkpoint is 0.3 to 0.5 meters.
4. Illumination requirements: no backlight, no shadow, no obvious reflected light on the face, and uniform light.
In order to ensure sufficient illumination when capturing the human face, if the human face is not bright enough in camera, the additional lighting equipment should be needed.



- Equipment should be installed indoors, make sure there is no wind between equipment and person.
- No direct sunlight, avoid incorrect temperature measurement caused by wind dissipation and direct sunlight.

Connection

Connect the equipment to the PC via the network cable. After powered on, open the search tool on the computer to search the equipment's IP address. You can also modify IP address through the tool.

- Default IP Address: 192.168.1.18

Packing List

Name	Model	Qty	Remark
Access Control Terminal	TS3080-AI	1	8 inch LCD Screen , Non-contact Temperature Measurement , Facial Recognition
Power Adapter	/	1	100-220V / 12V1A
User Manual	/	1	