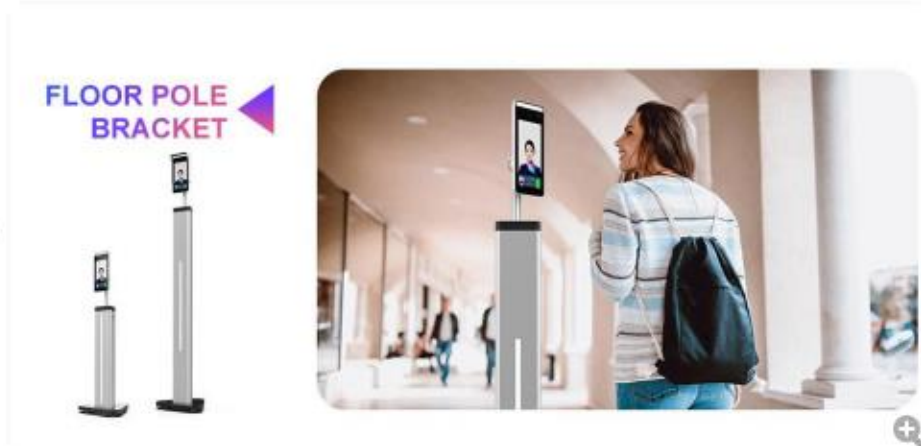


AI TH-312

Intelligent Face Recognition and Temperature Test Access Control Camera



AI TH-312

Based on many years of experience in the security industry and innovations in thermal imaging temperature measurement technology, the company has built a modern human body temperature information system based on modern information technology to support network interconnection, interoperability, information resource sharing, and complete application functions.

Combined with the current biometrics technology and video intelligent analysis, our systems are "high precision, high efficiency, low cost, flexible deployment, safe and reliable", as they will achieve "effective prevention and timely control" in public health and emergencies.

Core Detector

- Set non-contact body surface temperature detection + live detection in one, fast screening, early warning
- Accuracy of body surface temperature measurement $\pm 0.3\text{ }^{\circ}\text{C}$
- Support mask detection
- Support face recognition with mask
- Deep face ++ deep face recognition algorithm, stable and reliable
- 8-inch screen with 90% screen duty cycle
- Ultra-thin, industry's thinnest metal enclosure
- Voice alarm output on site after detecting abnormal body temperature
- Face recognition+temperature detection+mask multiple combinations
- Support offline working mode
- Supports the http protocol, rapid development and integration, can provide data interfaces to other health management platforms, and achieve health big data linkage



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High performance intelligent processor and deep learning-based face recognition algorithm have greatly improved the face capture rate.

Support real-time temperature detection and high temperature alarm.

Supports face optimization, face enhancement and face exposure, improving imaging quality.

supports multi-face recognition, multi-ethnic recognition, the largest face recognition mode, and the accuracy rate of face recognition is at the forefront of the industry.



Name	Face Recognition Temperature Test Access Control Camera
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Features	Face Recognition Access Control
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Special	Temperature Check, Mask Check
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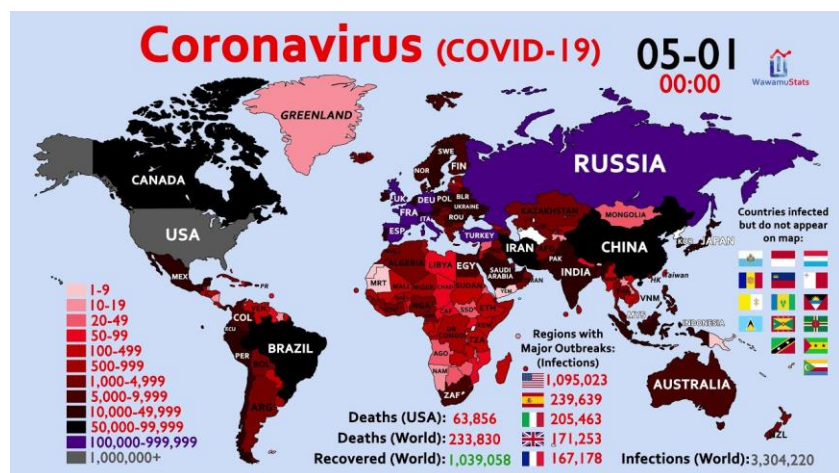
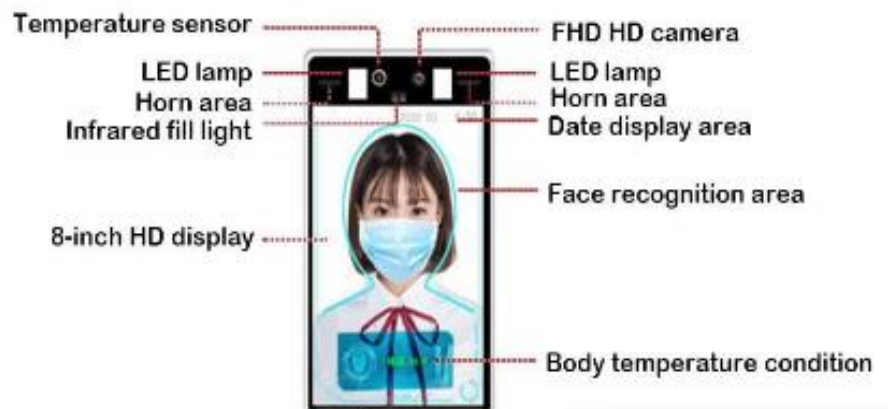
Case	Metal
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AI TH-312

- Using 1 / 2.8 "2 million-pixel ultra-low illumination sensor, the maximum output resolution is 1920 × 1080 @ 30fps,
- Ultra-low illumination CMOS, 0.001Lux @ (F1.2, AGC ON);
- Integrated high-precision thermal imaging temperature measurement module, temperature measurement accuracy $\pm 0.3\text{ }^{\circ}\text{C}$
- High-performance embedded processor, integrating image acquisition, face detection, face tracking, face recognition comparison, and living body judgment;
- Integrated CNN neural network algorithm for deficient deep learning, no special cooperation required for dynamic recognition;
- 8 or 7-inch LCD display
- Supports face recognition for masks, detecting whether personnel are wearing masks;
- Supports body temperature detection
- Support voice alarm for abnormal body temperature;
- Face recognition, temperature detection, and mask detection are free to configure multiple usage modes;
- Recognition speed $\leq 100\text{ms}$, recognition rate $\geq 99.7\%$;
- Support 50,000 face libraries;
- Support video overlay and body temperature overlay;
- The integrated principle design ensures the safety and reliability of the equipment and provides accuracy.
- Facial recognition machine supports personalized customization.
- Fast and efficient, high recognition accuracy and fast verification speed.
- Non-contact recognition is completely different from fingerprints and punchcards.
- Lost or forgotten identification cards no longer occur.
- The device will not be touched frequently, so the failure rate is low and the stability is high.

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- HD color screen and high resolution.
- Ventilation holes and speaker sound: The speaker sound quality is high, and the vent holes keep the body from high temperature.
- Support multi-language, high-definition voice prompts.
- Supports multiple system functions such as access control, access, and consumption.
- Record identification information and temperature information, save traceability
- Support Wiegand protocol
- Ultra-thin metal case
- Lightning and surge protection measures;
- The face recognition all-in-one supports wall mounting, bracket and tripod installation.



SPECIFICATIONS	AI TH-312
Body temperature test	
Display	7 or 8 inch LCD
sensor	Thermal imaging infrared temperature sensor
Temperature accuracy	Accuracy: ± 0.3 °C (within 35 ~ 39 °C), ± 1 °C (within 0-35 °C or 39 ~ 70 °C), ± 2 °C (other temperature)
Voice broadcast	Body temperature alarm
Detection distance	0.4 m--0.7 m
Visible light parameters	
Lens	Focal length 1.8mm, field of view: 118 °
Minimum illumination	0.001Lux@F1.2 (color mode)
Dynamic Range	≥ 120 dB
Signal to noise ratio	≥ 46 dB (AGC OFF)
Exposure mode	Program mode (customizable shutter interval), shutter mode (1/5-1 / 20,000s), support for slow shutter
White balance	Auto, indoor, outdoor, sodium lamp mode, manual
Digital noise reduction	Support dnr, 3dnr
Day and night mode	Fixed color
Hardware interface	
Power interface	dc12v access,
Network Interface	1 x 10 / 100BaseT Ethernet RJ45 interface
Wiegand	1 Wiegand interface output
Digital interface	1 relay output
MIC	Built-in
Audio port	2 audio outputs
RS485	1-way half-duplex rs485 interface
Environmental parameters	
Operating temperature	-20°C ~60°C
Working humidity	0% -90% rh (non-condensing)
Power consumption	5W
Dimensions	215x125x20mm
Weight	<1kg
Video parameters	
Video compression	H.265 Main Profile / H.264 High profile / M-JPEG
Maximum resolution	1920x1080@30fps
Main stream	1920x1080、1280x960、1280x720、720x576
Sub stream	640x480、352x288、320x240、176x144
PEG	1920x1080, 1280x720, off
Output bit rate	Fixed code stream (CBR) or variable code rate (VBR), code stream can be set from 32Kbps to 10Mbps
Audio	G711, PCM

compression		
Character overlay	Support channel name, date and time overlay, and overlay position can be adjusted;	
Algorithm parameters		
Number of face bases	50,000 sheets	
Recognition speed	≤300ms	
Live detection	stand by	...



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