



FACE RECOGNITION INFRARED TEMPERATURE MEASUREMENT INTEGRATED MACHINE SCREENING INSTRUMENT

AI-321

- Multi-purpose for one machine, temperature measurement, attendance, access control
- Automatic alarm when body temperature exceeds normal range
- Face recognition library capacity supports 50,000 people
- Living body anti-counterfeiting, supporting binocular near infrared living body detection
- Provide a targeted system platform for schools and enterprises



AI-321 FACE RECOGNITION TEMPERATURE MONITOR

The CEM Recognition Temperature Monitor effectively combines traditional infrared temperature measurement with AI face recognition.

It only requires the user to stand in front of the device to quickly complete user identification and temperature measurement. If the temperature exceeds the normal values, an alarm is set off and it prohibits access.

In order to be suitable for multiple applications, the device supports 3 usage modes and is equipped with varied platform software for more powerful functions.

Access Control & Attendance for company



Attendance & Access Control Management Platform for Company

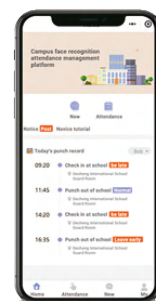
- Attendance&access control management
- Device/Department/Staff management
- Attendance rule setting
- Attendance record viewing and export
- Statistical analysis of temperature data
- Traceability of temperature alarm data
- Support data export





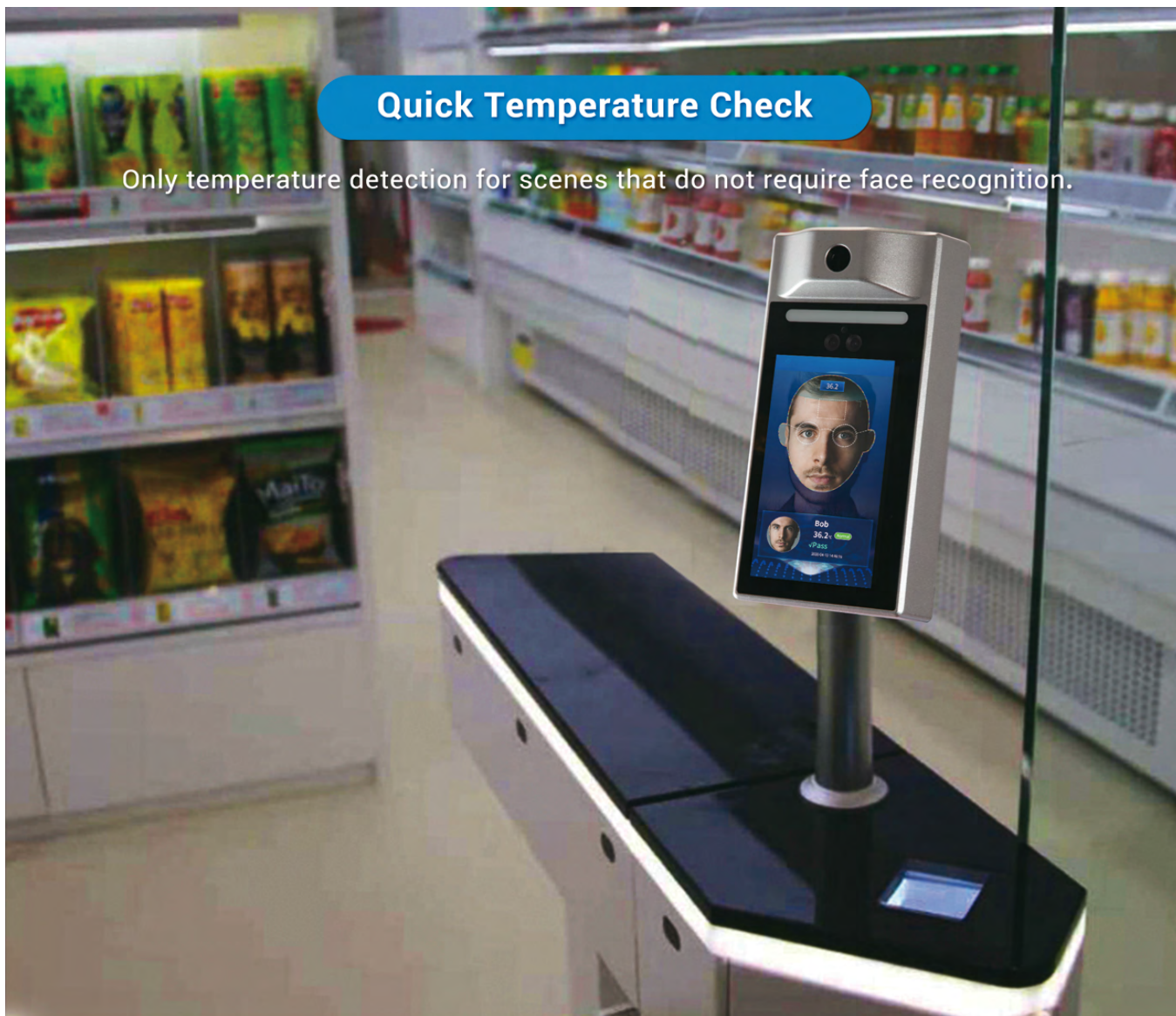
Attendance & Access Control Management Platform for School

- Attendance&access control management
- Device/Grade/Class/Student/Teacher management
- Attendance record viewing and export
- Statistical analysis of temperature data
- Traceability of temperature alarm data
- Support data export



Quick Temperature Check

Only temperature detection for scenes that do not require face recognition.















Temperature Cloud APP

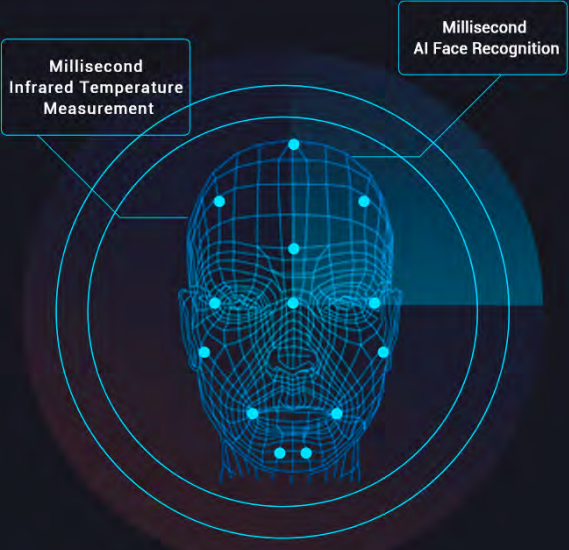
- Monitoring temperature data
- Curve analysis
- Monitor abnormal data and snapshot



Product Characteristics

 Quick measurement	 No-contact	 Face recognition
 Automatically obtain data information	 Automatic data analysis	 Alarm prompt
 High precision	 Multifunction	 Applicable to campus and company management
 Face recognition capacity ≥ 50000	 In vivo imaging	 Intelligent recognition (Glasses, makeup, masks)

AI Face Recognition & Infrared Non-Contact Accurate Measurement within 1's



Millisecond Infrared Temperature Measurement

Millisecond AI Face Recognition

- Temperature Measuring Range: 32° - 45°C / 89.6° - 113°F
- Measurement Accuracy: $\pm 0.5^{\circ}\text{C}$
- Measuring Distance: 20-50 cms / 9 to 22 inches
- Measuring & Detecting Time: 0.5 secs
- Operating System: Android 8.1
- RAM 1GB, Storage Memory 16GB
- Infrared Resolution: 1280x960 px
- Recognition Distance: 0.3 to 1.2 mts
- Recognition Height: 1-2 mts
- Face Recognition Capacity: 50000 people
- Recognition Accuracy: 99.83%
- Face Recognition Speed: 200ms
- Supports wearing glasses, wigs, makeup, masks. etc.

Installation Modes



Support Face Recognition with Mask

Powerful AI chip, combining computing power and algorithm, support face recognition with mask, recognition speed $\leq 200\text{ms}$.



Accurate Measurement

Infrared temperature measurement, highly efficient temperature measurement. Temperature Accuracy up to $\pm 0.2^{\circ}\text{C}$. Voice alarm for abnormal body temperature and block passage, reduce cross-infection.



Technical Specifications

AI-321	
Single point infrared temperature measurement	
Temperature measurement module parameters	
Measuring range	32°C~45°C/89.6°F~113°F
Measurement accuracy	±0.5°C/±0.9°F
Measuring distance	20~50cm
Measure time	0.5S
System hardware parameters	
Processor	4-core A7
Operating system	Android 8.1
Memory size	1GB LPDDR3
Storage size	16GB EMMC
Camera parameters	
Resolution	Color 200W (1920 * 1080) Infrared 130W (1280 * 960)
Imaging device	Color AR0230 Infrared AR0130
Lens	2.9mm
Recognize height	1m ~ 2m
Recognition distance	0.3m ~ 1.2m
Angle of view	Horizontal: 89 ° Vertical: 57 ° Diagonal: 98 °
Face angle	± 30 °
Minimum illumination	Color ≥0.01LUX at F1.2 Infrared: ≥0.01LUX at F1.2
Signal to noise ratio	Color ≥41dB Infrared: ≥44dB
Wide dynamic range	Color ≤105dB Infrared: ≤83.5dB
Interface parameters	
Network interface	1 RJ45 10M / 100M adaptive Ethernet port
USB interface	1 USB interface
Wireless connection	WIFI + BLE4.0
RS485 interface	1 RS485 interface
Relay interface	1 relay interface
Fire alarm door check button	1 fire alarm door check button
I0 reserved	1 11pin terminal
Power supply	DV12V / 3A
Smart functions	
Face recognition capacity	50000 people
Offline record	100000
Recognition accuracy	99.83%
Face liveness detection	Support binocular near infrared live detection
Face detection	1080P @ 25fps, support face detection tracking, optimization
Face recognition speed	About 200ms
Face liveness detection speed	About 400ms
Occlusion adaptation	Supports wearing glasses, wigs, makeup, etc., wearing masks
Basic parameters	
Screen size	7 inch
Product size (length * width * height)	268 * 135 * 45 (mm)
Operation humidity	10%~90%
Operation temperature	10~40°C/50~104°F

Contact :

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