OZONE
FOR A SAFER WORLD

POWERED BY MEGVII 旷视

INTELLIGENT BODY TEMPERATURE DETECTION AND ANALYSIS SYSTEM - MINI

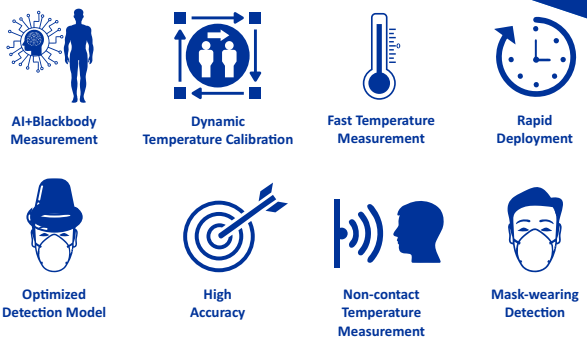
Ozone's Intelligent Body Temperature Detection and Analysis is based on face detection technology and dual sensing via infrared cameras and visible light. Our system is capable of identifying people who have high body temperature even in crowded places using available body and facial information. The system uses high performance CNN (convolutional neural network) algorithm model – ShuffleNet (powered by Megvii) which has the capability to delivery high accuracy on edge analytics devices. The system can be deployed in a very short period of time at public places, monitoring temperature in a non-contact manner through AI technology.

The system is capable to

1. Measure temperature of up to 4 people simultaneously
2. Assist in daily temperature screening process without physical contact.
3. Raise flags for people without masks.

FEATURES

- **AI+Blackbody Measurement System with Very High Cost Effectiveness:** CNN (convolutional neural network) algorithm on edge devices – Shuffle Net to bring out best performance on edge devices.
- **Dynamic Temperature Calibration:** Intelligent passive blackbody technology, real-time sensing of ambient temperature and dynamically compensates for differences to cope with complex scenes.
- **Temperature Measurement with High Speed:** Accurate temperature measurement for 3-4- people simultaneously.
- **Rapid Deployment:** installed on edge devices, 1 minute rapid deployment.
- **Optimized Detection Model:** Optimized forehead detection model for detecting the face of people who wear hats and masks. Face detection rate is more than 95%.
- **Ultra-precision Temperature Measurement:** Tested by the Beijing Institute of Metrology, the accuracy within the range of 30 ℃ ~ 45 ℃ is as high as ±0.1℃ (in laboratory environment).
- **Non-contact Temperature Measurement:** Support up to 4 meters in non-contact temperature measurement to ensure epidemic prevention security.
- **Mask-wearing Detection:** Automatically identify and flags people without masks, detection rate is more than 95%.



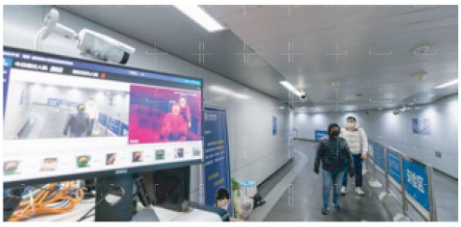
SPECIFICATIONS

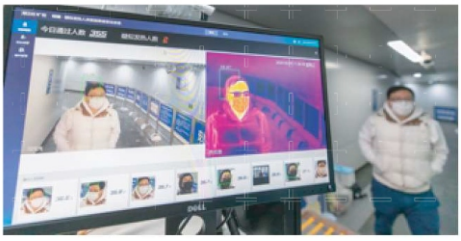
AI Temperature Measurement Unit	
Comm Port	USB x 1; Network x 2
Network	RJ45, 100/1000Mbps Adaptive
Operating Voltage	DC12V ±10% 2A
Power	15 (MAX)
Display	HDMI2.0 and WEB Browser
Audio	3.5mm Audio
Operating Temperature	10°C~45°C
Operating Humidity	10% ~ 90% No Condensation
Dimension	210x300x100 (mm)
Casing Material	Metal Casing
Processing Capability	1 Dual-Light Channel
Capture Rate	>95%
Screening Performance	3~4 people/second

Dual Light Camera + Black Body	
Visible Light Resolution	2MP, 1/2.8"
Frame Rate	1080p@25fps NTSC: 1080p@30fps
WDR	120dB
HLC	Support
Lens Port	C/CS
Network	1 x 10M/100M Adaptive RJ45 Port
Control Port	1 x RS485, 1 x RS232, Support . Transparent Channel and Protocol mode
Protection Level	Static Surge Level 3 B
Operating Temperature	10°C~45°C
Power	DC12V ±10%
Dimension	160mm (L) x 188mm (W) x 64mm (H)
Temperature Measurement Range	0°C~50°C
Measurement Accuracy	± 0.1°C (Lab Environment)

APPLICATION SCENARIOS

- Government Building
- Transportation Hub
- Hospital
- School
- Residence
- Shopping Mall
- Office
- Factory





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