

DYTRONIC



Thermal Imaging For

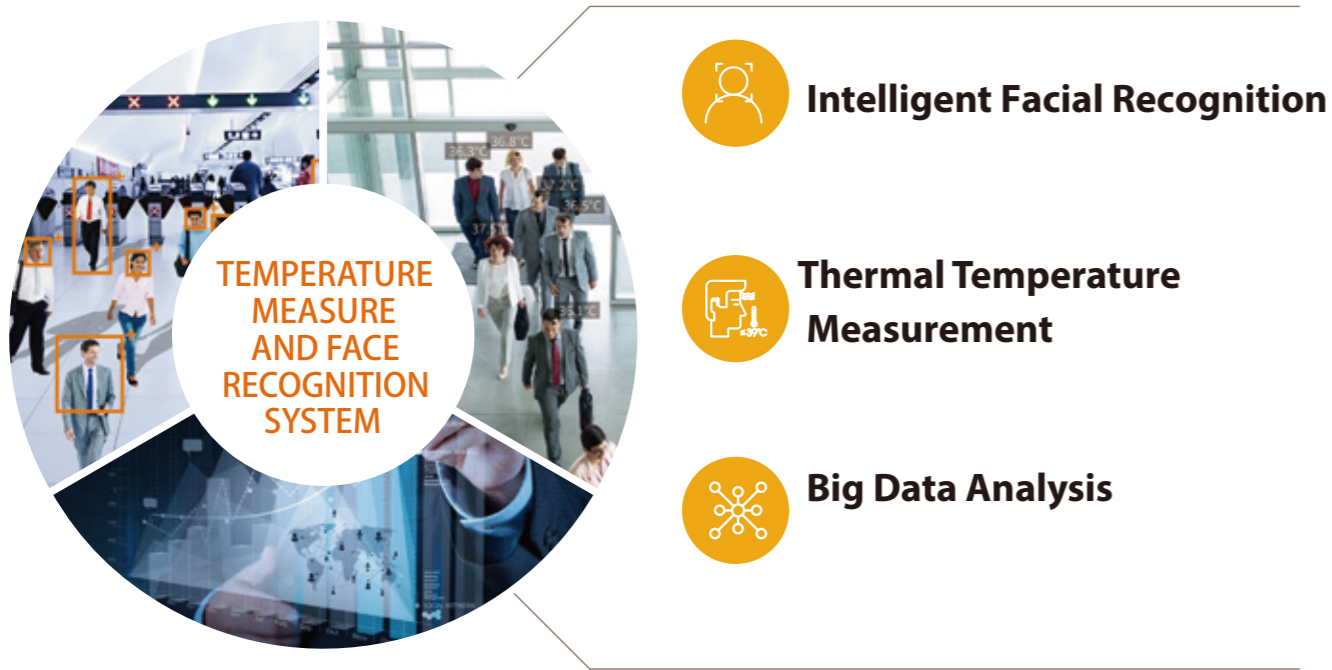
Body Temperature Screening System



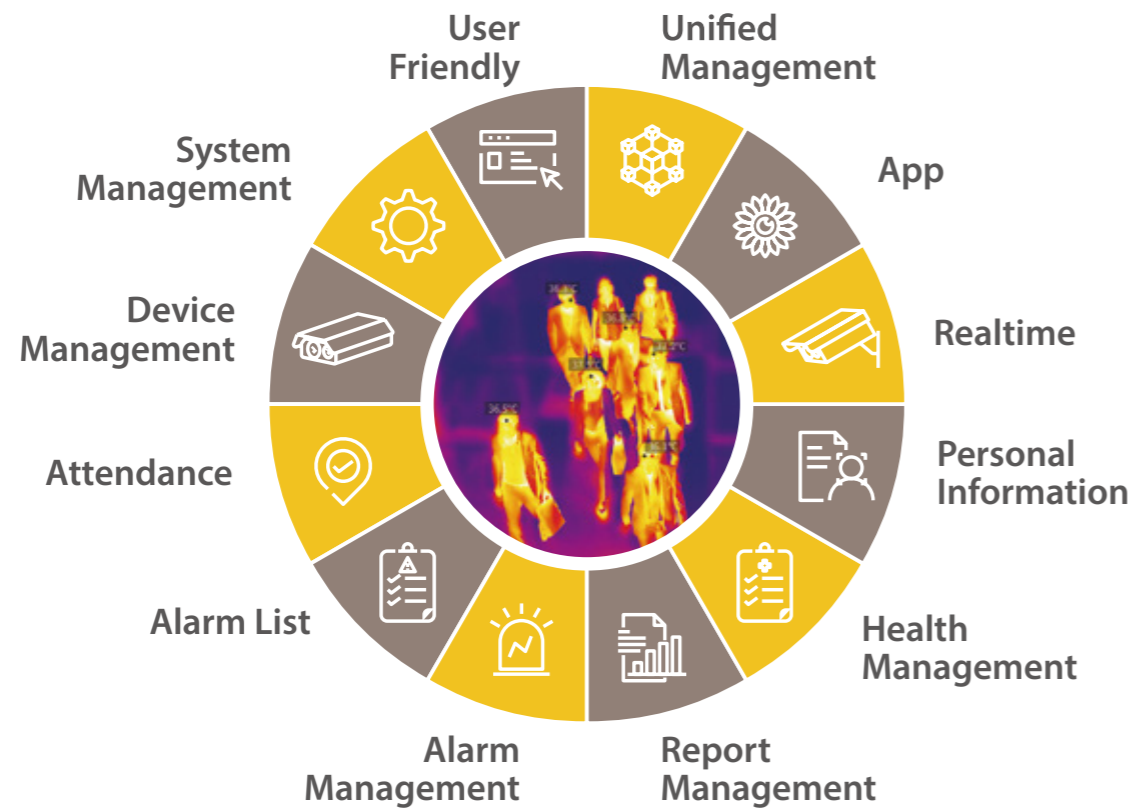
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Real-Time Temperature Measurement & Face Recognition System

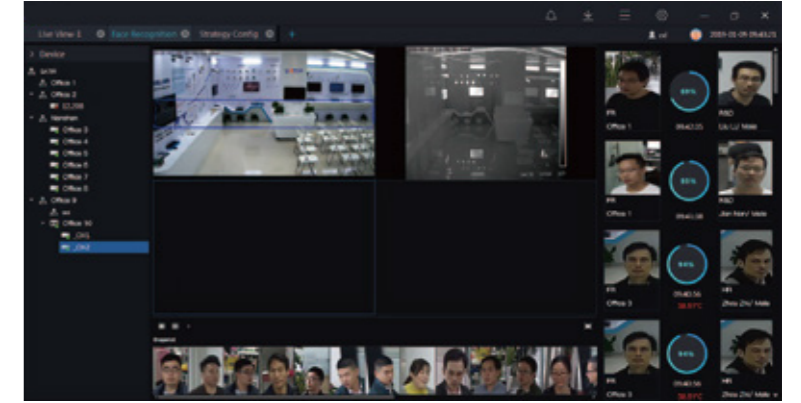


System Formations

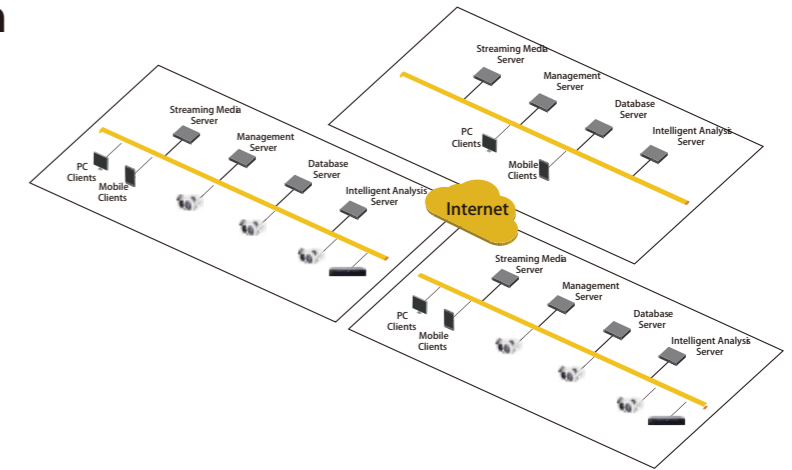


System Functions

Real-time monitoring for efficient and quick temperature detection



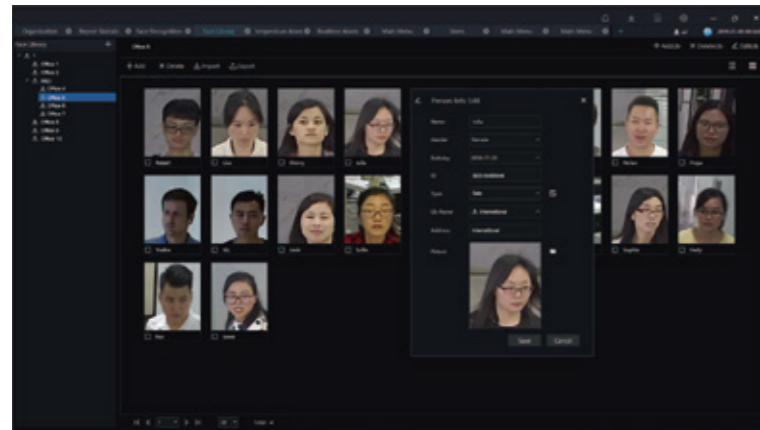
Multi-level distribution deployment



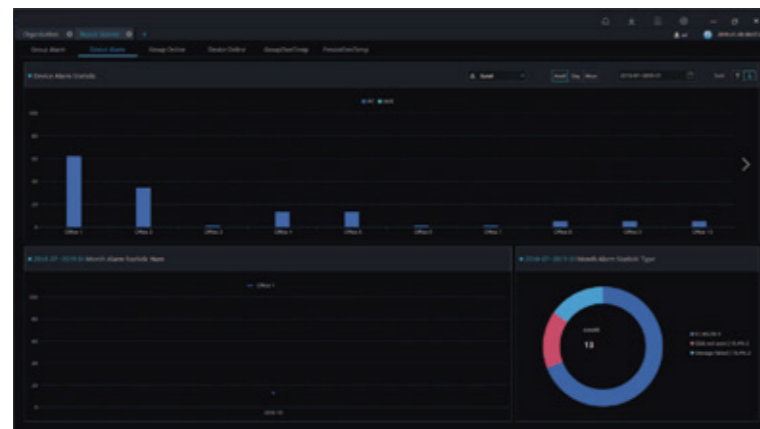
Mobile APP enables to receive real-time health data statistics



Data management with batch import/export functionalities



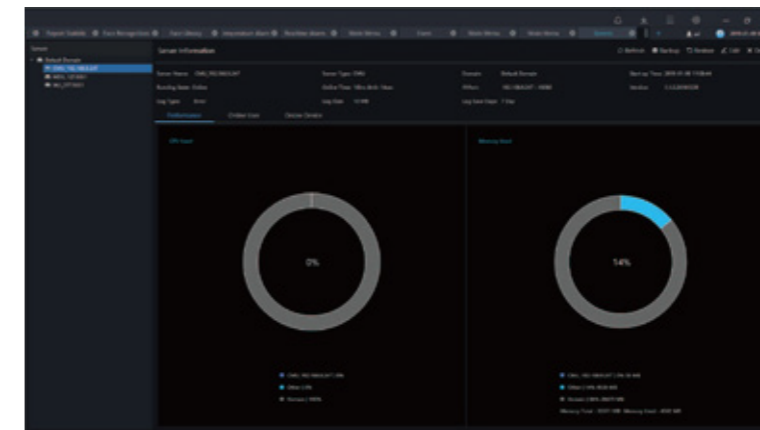
Statistic reports and analysis according to different options



Pre warning management with audio support



Efficient system management functionalities



Applications



School



Airport



Custom

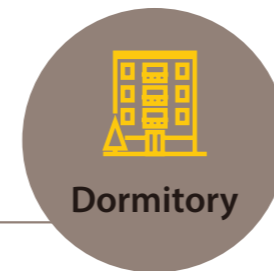


Hospital

Solution -Education



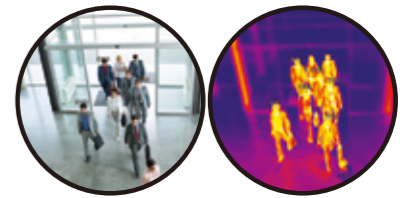
Teaching Building



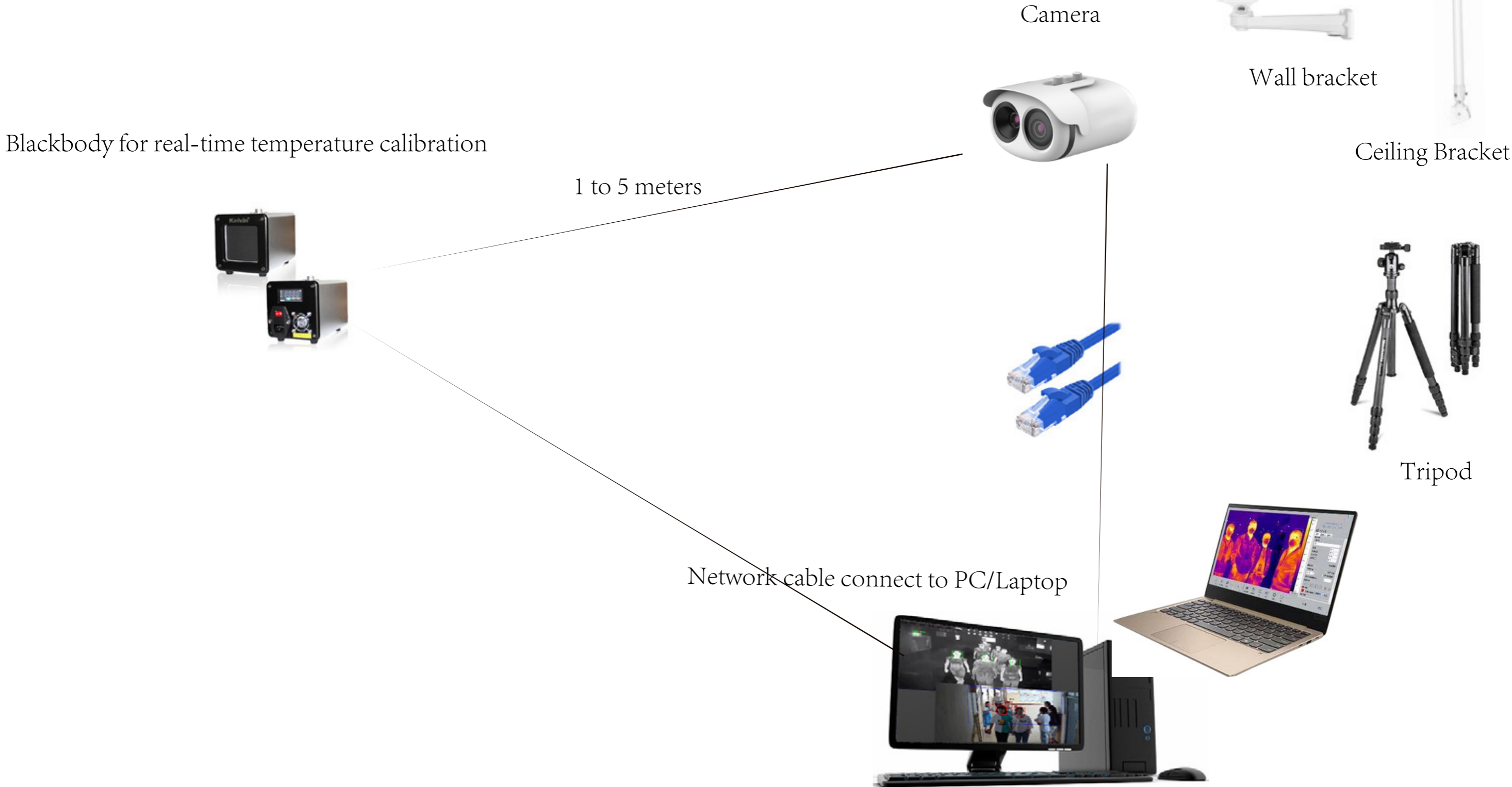
Dormitory



Library



System Diagram



Blackbody for real-time temperature calibration

1 to 5 meters

Camera

Wall bracket

Ceiling Bracket

Tripod

Network cable connect to PC/Laptop

Specification

Thermal Camera	
Effective Pixels	384(H) × 288(V)
Pixel Size	17μm
Thermal Sensitivity (NETD)	50mK @F1.0, 300K
Spectral Range	8~14μm

Thermal Lens	
Lens Type	Fixed
Focus Control	Manual Focus
Focal Length	8mm
Angle of View	H: 46°, V:35.3°

Visible Camera	
Image Sensor	1/1.9" Sony CMOS
Effective Resolution	1920(H) × 1080(V)
Shutter Speed	1/50 ~ 1/64,000s
Wide Dynamic Range	True WDR 120dB
Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON) B/W: 0.001Lux @(F1.2, AGC ON)
S/N Ratio	More than 55dB
Focal Length	2.7 ~ 12mm
Max Aperture	F1.6~ F2.9
Angle of View	105°~ 32°
Focus Control	Motorized

Video and Audio	
Compression	H.265, H.264, MJPEG
Frame Rate	Main Stream: Thermal: D1 @25/30fps Visible: 1920 × 1080/1280 × 720 @25/30fps Sub Stream: Thermal: CIF @25/30fps Visible: D1/VGA/640 × 360/CIF/QCIF/QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: 100Kbps~6Mbps Visible: main stream: 500Kbps~10Mbps; sub stream: 100Kbps~6Kbps
Region of Interest	Off / On (8 Zone, Rectangle)
Digital Zoom	16x
Mirror	Support
Defog	Support
Motion Detection	Support
Privacy Masking	Off / On (4 Area, Rectangle)
DVE Image Enhance	Support
Audio Compression	G.711, AMR, RAW_PCM (Optional)

Temperature Detection	
Detection Mode	Body temperature monitoring
Detection Preset	Max 16 goals
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	≤ 0.3 °C (Emission rate, distance, ambient temperature, etc.)

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocols:	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP ,802.1x
Interoperability	ONVIF, CGI, SDK
Streaming Method	Unicast
Max. User Access	10 Users

General	
Power Supply	DC12V/POE (IEEE 802.3af)
Operating Temperature	-30°C~60°C(-22°F~140°F)
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	212 × 182 × 136mm
Net Weight	2Kg

Blackbody Specification



Temperature Range	40°C (Ambient temp. +5.0°C to 50°C)
Emissive Area	70mm x 70mm
Temperature Resolution	0.1 °C
Accuracy	±0.2°C (@40°C)
Stability	±(0.1~0.2) °C/30min
Option	RS485 communication
Power Supply	220V AC 50Hz 50W



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