This Body Temperature Detection System can accurately detect facial temperatures of up to 40 people at once with an accuracy of ±0.3°C, this is ideal for monitoring body temperatures at entrances to events, transport hubs and buildings.

Using advanced facial recognition, the system uses the face temperature for a more accurate measurement. This also stops any false readings, such as a person carrying a hot drink.

With astonishingly fast response time and being able to measure up to 40 people at once, the system will reduce the need for single file detection, aiding in the speed of people passing through the detection area.
BODY TEMPERATURE DETECTION SYSTEM
THERMAL DETECTION SYSTEM

CAMERA

THERMAL CAMERA
Detector Type Uncooled Rifpa Microbolometer
Effective Pixels 400(H) × 300(V)
Pixel Size 17um
Thermal Sensitivity (NETD) 40mK @ F1.0, 300K
Spectral Range 8~14um
Image Setting Polarity LUT/DVE/Mirror/FCC/3D DNR Brightness/Contrast/ROI

THERMAL LEN
Lens Type Fixed
Focus Control Manual Focus
Focal Length 8mm
F No. F1.0
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 Colour: 0.01Lux @F(1.2, AGC ON) B/W: 0.001Lux @F(1.2, AGC ON)
S/N Ratio More than 55dB
Focal Length 2.7 ~ 12mm
Max. Aperture F1.6 ~ F2.8
Angle of View 105° ~ 32°
Focus Control Motorised

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~600Kbps
Region of Interest Off / On (4 Zone, Rectangle)
Digital Zoom 16x
Mirror Yes
Defog Yes
Motion Detection Yes
Privacy Masking Off / On (4 Area, Rectangle)
DVE Image Enhance Yes
Audio Compression G.711, AMR, RAW_PCM (Optional)

INTELLIGENCE
Intelligent Functions Motion detection, Disk alarm, I/O alarm, Temperature alarm
IVS Smart Body Detection; Perimeter, Single Virtual Fences, Double Virtual Fences, Object Left, Object Removed

TEMPERATURE DETECTION
Detection Mode Body temperature monitoring
Detection Preset Max 16 goals
Temperature Alarm Over temperature alarm, Temperature difference alarm
Accuracy ±0.3ºC (dimension, distance, ambient temperature, etc.)
Response Time ≤30ms
Theory of temperature measurement range -20ºC ~ 60ºC (-4ºF ~ 140ºF)
Temperature display mode Temperature target >5ºC, Display absolute temperature value; Temperature target ≤5ºC, Display relative temperature value (temperature difference ΔTV = highest value – average)

NETWORK
Ethernet RJ-45 (10/100Base-T)
Protocols: IPv4/IPv6, HTTP/HTTPS, RTP/RTCP, TCP/UDP, DHCP, DNS, PPPoE, SMTP, SIP, SIP, RTSP
Interoperability ONVIF, CGI, SDK
Streaming Method Unicast
Max. User Access 10 Users
Edge Storage NAS. Local PC for instant recording. Micro SD card 128GB
Web Viewer <IE11, Chrome, Firefox
Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian

ACCESSORIES

BLACKBODY CALIBRATION DEVICE

GENERAL
Temperature Range 40.0ºC Ambient temp. +5.0ºC to 50.0ºC
Emissive Area 70mm×70mm
Temperature Resolution 0.1ºC
Accuracy ±0.2ºC (+40ºC)
Stability ±(0.1~0.2) ºC/30min
Emmissivity 0.97±0.02
Power supply 220VAC 50Hz 50W
Operating ambient temp 0ºC ~40ºC / ≤80%RH
Dimension 110mm(W)×120mm(H)×180mm(D)
Weight 1.8kg
Option RS485 communication

DIMENSIONS
Camera

Ceiling Mount CP-TM-CM

Wall Bracket CP-TM-WM

INTELLIGEN

ETHERNET

PARAMETERS

POWER SUPPLY
DC12V/POE (IEEE 802.3at)

POWER CONSUMPTION Max 10W

OPERATING TEMPERATURE 0~90% RH

STORAGE CONDITIONS 0~90% RH

CERTIFICATIONS CE /FCC

INGRESS PROTECTION IP66

CABINET Material

DIMENSIONS 212×182×136mm

Net Weight 2Kg

GENERAL

TEMPERATURE RANGE 40.0°C Ambient temp. +5.0°C to 50.0°C

EMISSIVE AREA 70mm×70mm

TEMPERATURE RESOLUTION 0.1°C

ACCURACY ±0.2°C (+40°C)

STABILITY ±(0.1~0.2) ºC/30min

EMISSIVITY 0.97±0.02

POWER SUPPLY 220VAC 50Hz 50W

OPERATING AMBIENT TEMP 0ºC ~40ºC / ≤80%RH

DIMENSION 110mm(W)×120mm(H)×180mm(D)

WEIGHT 1.8kg

OPTION RS485 communication

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WALL BRACKET CP-TM-WM

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BODY TEMPERATURE DETECTION SYSTEM

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GENERAL

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POWER CONSUMPTION Max 10W

OPERATING TEMPERATURE 0~90% RH

STORAGE CONDITIONS 0~90% RH

CERTIFICATIONS CE /FCC

INGRESS PROTECTION IP66

CABINET Metal

DIMENSIONS 212×182×136mm

Net Weight 2Kg
BODY TEMPERATURE DETECTION SYSTEM
THERMAL DETECTION SYSTEM

KEY FEATURES

SYSTEM
Main Processor Dual-core embedded processor
Operating System Embedded LINUX

VIDEO AND AUDIO
IP Camera Input 32 Channel
Audio I/O 1/1
Two-way Talk Yes

AI RECOGNITION
Face Face comparison results (registrant (name and ID), stranger, channel, similarity)
Vehicle Recently captured image display
Human Body Recently captured image display
Non-motor Vehicle Recently captured image display
AI Search Time, Properties, Pictures, Gender, riding style, Vehicle colour, License plate

DISPLAY
Interface 2 HDMI, 1 VGA
Resolution
HDMI 1: 1920×1080, 1440×900, 1280×1024
HDMI 2: 3840×2160, 1920×1080, 1440×900, 1280×1024
VGA: 1920×1080, 1440×900, 1280×1024
Decoding Capacity 32ch 720P, 16ch 1080P, 8ch 5MP, 4ch 8MP, 1ch 12MP
Multi-screen Display 1st Screen: 1/4/9/16/32/36
2nd Screen: 1/4/8/9/16

RECORDING
Compression H.265+/ H.265/H.264+
Resolution 12MP, 8MP, 6MP, 5MP, 4MP, 720P, 1080P, 1920P, 12MP
Record Rate 320Mbps
Bit Rate 128Kbps ~ 8192Kbps Per Channel
Record Mode Manual, Schedule (Regular, Continuous, Motion Detection, Video Loss, Camera Tamper, Alarm in, IVS)
Record Interval Post-record: 30 ~ 60 sec

VIDEO DETECTION AND ALARM
Trigger Events Recording, Buzzer, Push message, Pop up message
Video Detection Motion Detection, Video Loss, Camera Tamper, IVS
Alarm In/Out 2/1

PLAYBACK AND BACKUP
Sync Playback 16/9/4/1
Search Mode Time, Date, Alarm, Picture grid, Event
Playback Function File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup, Selection, Digital Zoom
Backup Mode USB Device

NETWORK
Max. User Access 10 users
Smart Phone iPhone, iPad, Android
Interoperability ONVIF, SDK, CGI

STORAGE
Internal HDD 4 SATA Ports, up to 12TB for each HDD
eSATA Support
Cloud Storage Support

DISK ARRAY
Array Type RAID 5, RAID 6, RAID 10

INTERFACE
Interface 2 RJ-45 port (10/100/1000Mbps)
PoE Interface 16ch 100Mbps, IEEE 802.3af
PoE Max Power 160W
USB 3 ports (USB 2.0 x2, USB3.0 x1)
RS485 Support
RS232 Support

GENERAL
Power Supply AC100~240V
Power Consumption < 15W (without HDD)
Operating Conditions -10 °C ~ 50 °C (14 °F ~ 122 °F)
Storage Conditions Less than 90% RH
Certifications CE, FCC
Dimensions 440×368.3×70mm
Net Weight 4.2kg (No disk)

Disclaimer
This product is not intended to diagnose or monitor any medical condition or illness, and should not be used as such. The product is supplied as a first-line filter for organisations that wish to identify those entering premises who may have an elevated body temperature. It is then for the organisation to determine how that information is used, and the appropriate reaction to that information. Competent medical advice should be sought if there are concerns around illness, and further checks will be required.

The power behind your mission