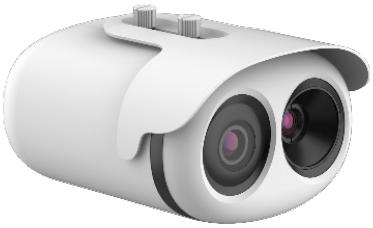
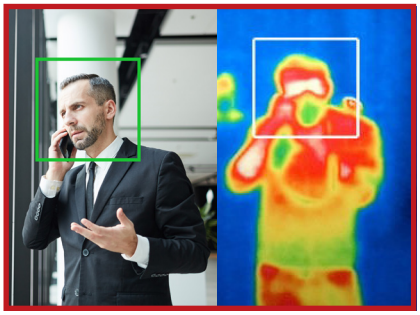
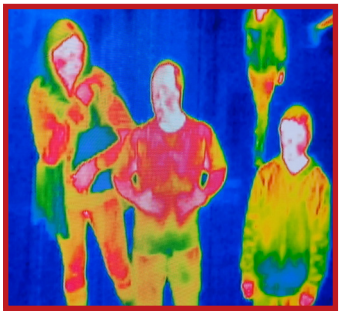
KASTLE SYSTEMS

Thermal Body Temperature Detection System
model CVT-221







Reliable protection has never been this simple.

The **CVT-221** is a turnkey thermal temperature detection system with integrated dual thermal and visible cameras. The visible camera detects faces and is registered with the thermal image to get accurate temperature readings. Placed at up to 10 feet away, the CVT-221 can be used for rapid throughput, non-contact temperature measurement of multiple people at the same time. The system is calibrated for temperature readings as accurate as 0.3°C. The solution integrates seamlessly with the Kastle IP Gateway for recording both the visible and thermal camera. Using PoE power, the system is easy to set up using just a single Ethernet cable.

FEATURES

- ✓ Dual Sensor Technology combines high resolution thermal and visible cameras that work together.
- ✓ Calibrated Thermal Sensor with long range wide field-of-view lens.
- ✓ Multiple Alert modalities including on-screen display, audible tone and push notification.
- ✓ Flexible Integration options through digital I/O and cloud services.

BENEFITS

- ✓ Combines thermal for temperature measurement with a high definition image for quicker identification and intervention.
- ✓ No-Touch measurement at a distance of 10 ft. Enables fast throughput by measuring temperature while people are moving.
- ✓ Provides instant feedback regarding people with potentially elevated temperature who can undergo additional screening.
- ✓ Interface with access control or turnstiles to grant or deny access based on temperature reading.

Note: Thermal cameras are designed to provide an indication of temperature and are not a substitute for clinical measures to detect the presence of a fever or other symptoms that may indicate bacterial or viral infection or other health conditions. The system requires calibration for accurate measurement and must be deployed in a temperature controlled environment without drafts and hotspots. We recommend people coming from other environments that are either hotter or cooler than the camera's environment be asked to wait 5-10 minutes before being scanned. Glasses and headgear are recommended to be removed prior to temperature measurement. No claims or warranty are being made regarding the clinical accuracy of these measurements.

KASTLE SYSTEMS

Thermal Body Temperature Detection System

model CVT-221

THERMAL CAMERA

Detector Type	Uncooled IRFPA Microbolometer
Effective Pixels	400(H) ×300(V)
Color Palettes	Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes
Focal Length	8mm, F1.0
Field of View	H: 46°, V:35.3°
Focus Control	Manual Focus

VISIBLE CAMERA

Image Sensor	1/1.9" Sony CMOS
Effective Resolution	1920(H)×1080(V)
Focal Length	2.7 ~ 12mm
Field 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

TEMPERATURE DETECTION

Detection Mode	Body temperature monitoring
Temperature Alarm	Elevated temperature alarm, Temperature difference alarm
Accuracy	≤ 0.3°C
Response Time	≤30ms
Measurement Range	-20 °C ~ 60 °C (-4°F ~ 140°F)

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

GENERAL

Power Supply	DC12V/POE (IEEE 802.3af)
Power Consumption	Max 10W
Operating Temperature	-30°C~60°C(-22°F~140°F)
Storage Conditions	0~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	8.3" x 7.2" x 5.4" (212×182×136mm)
Net Weight	4.5 lbs (2Kg)