Insight's PPE Technology Solution

Insight's Contract with ISBE includes our entire portfolio of Hardware, Software, and Services. Specifically for PPE, Insight recommends the following products to help with the technology portion of Governor Pritzker's Executive Order 2020-40, specifically the section that requires schools to conduct symptom screenings and temperature checks or requires that individuals self-certify.

Please reach out to Bob Erwin, berwin@insight.com; **847-322-0898** or Nicole Olivera, nicole.olivera@insight.com, **630-295-7300** if you need help with a technology solution to the Phase 4 PPE technology requirements.

Insight uses this PPE solution for our own distribution facility in Hanover Park, IL to keep our employees safe. Insight was considered a critical business during the lockdown. Please see the following video for more information on Insight's comprehensive solution and how we kept employees safe: https://shaunmartineau.wistia.com/medias/rc6730h4ws

Insight believes that by using the technology listed in this section not only can all of us meet and exceed that portion of the executive order for the districts in Illinois, but we can provide parents with the comfort level that the State and School Districts are doing everything in their power to reduce the chance of infections in the district. Perception is key with parents not only with student to student interaction, but also teacher, administration and transportation interaction with their child.

Insight's PPE solution provides a multiple layer process approach to detection and prevention. Once an alert notifies school administrators, that student can be quietly removed from the student population and sent to the nurses offer for an additional FDA contactless temperature scanning to confirm the reading of the cameras. Based on those results, the student can be let back into the classroom or would need to follow the district's policy of a high-temperature student detected.

Teachers, Administrators, and Transportation can also use Insight's self-certify application to follow phase 4 and CDC guidelines to determine if they should come into work that day. As a second level of safety using more cost effective temperature Kiosk Scanners at side entrances can detect and notify if that employee has a high temperature.

Product SKU	Description	Pricing	Availability
Bolide BN9036TH	Scans up to 30 targets at once, response time 30 milliseconds, uses a "blackbody" real-time calibration for accuracy. Very good for higher traffic entry points.	$16,500	2 to 3 weeks
Bolide BN9136THB	Scans up to 16 targets at once, response time less than 50 milliseconds, uses a "blackbody" real-time calibration for accuracy. Very good for medium traffic entry points	$12,000	2 to 3 weeks
Bolide BN-2600ACTC	Kiosk Scanner - Scans 1 target at a time, Response time <300 milliseconds, comes with a stand, factory configured. Good for Administration, Teachers, Bus Drivers, Visitors	$2,500	2 to 3 weeks
Bolide BC2036-PTC	– Handheld Portable Scanner – Works on Battery, "Blackbody" real-time calibration	$6,000	2 to 3 weeks
Tidal IES50-208-3310-404	Kiosk Scanner – Scans 1 target at a time, Response time < 300 milliseconds, comes with a stand, factory configured. WIFI available.	$2,600	2 to 3 weeks

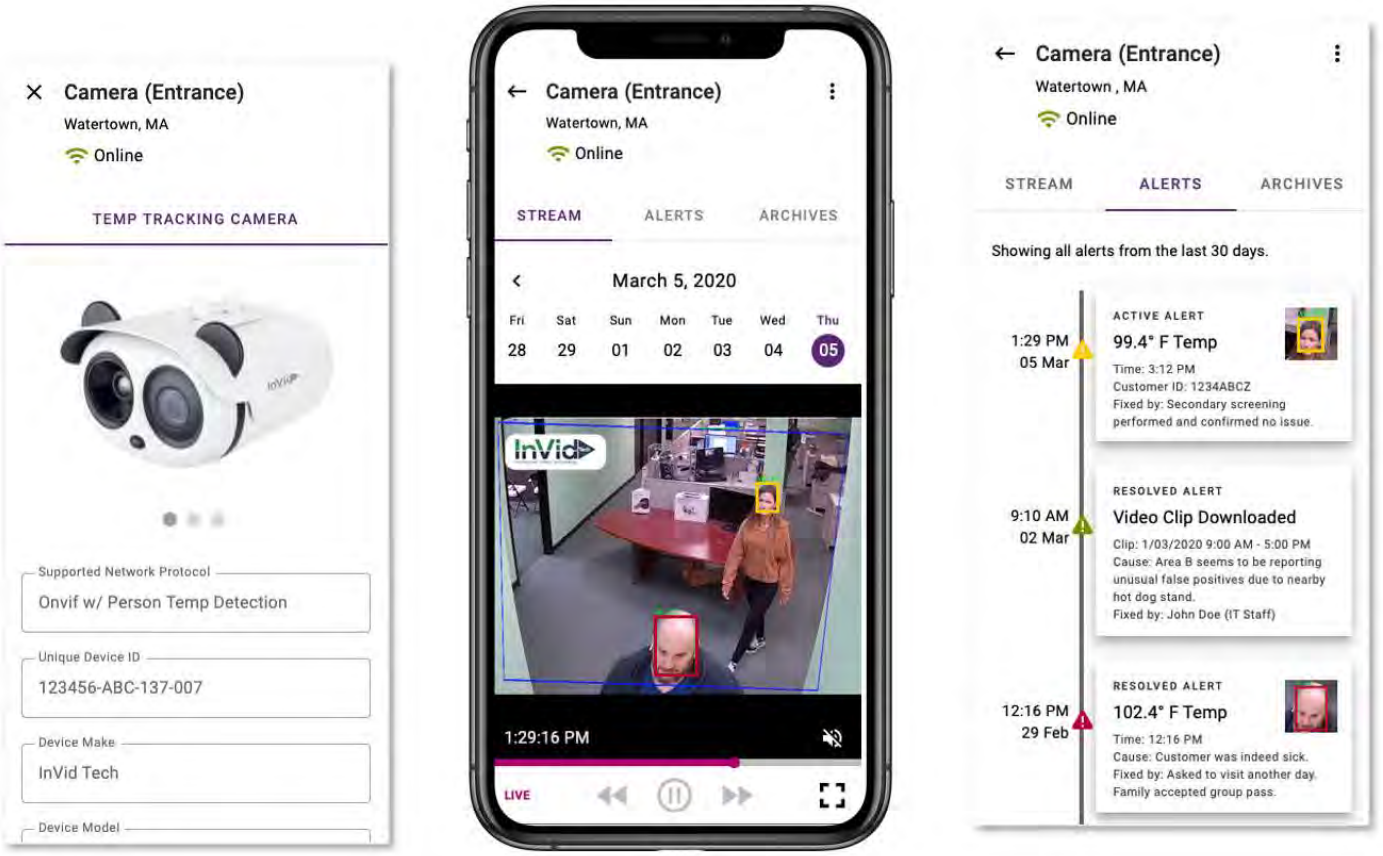
Additional Services:

- Insight Connected Platform – Software as a Service that provide real-time monitoring and management of cameras and allows for high temperature detection alerts and face mask detection alerts. Eliminates the need for someone to monitor the cameras in real-time for high temperature readings. Software can provide administration a picture of the student that has a high temperature for quiet removal from the student population to be secondary tested. Cost is based on number of locations and cameras. Call for solution pricing.

- Self-Certify App – Based on Insight's Connected Platform, the self-certification app can provide CDC guidelines questions to determine if the employee should stay at home. Responses could be documented and stored.

- Installation Services – Insight can provide mounting and installation services to setup the cameras for optimal readings and can work with the district to determine the correct placement per entrance. Cost is based on installation complexity, locations and number of cameras. Call for solution pricing.

Example of our connected platform:



Please call us for help solutioning your Phase 4 back to school initiatives!

HUMAN BODY TEMPERATURE CHECK SOLUTION

BN9036TH

Temperature measurement

Early detection

Quick reaction

BODY DETECTION UP TO 30 TARGETS

Creation of reports

Prevention of diffusion

Preventive isolation

BOLIDE® TECHNOLOGY GROUP

WWW.BOLIDECO.COM

Certifications

ISO 9001:2015 Certificate

BN9036TH

HUMAN BODY TEMPERATURE CHECK SOLUTION

Thermal Camera

Detector Type	Uncooled IRFPA Microbolometer
Effective pixels	400 (H) x 300 (V)
Pixel size	17μm
Thermal Sensitivity (NETD)	40mK@F.1.0, 300K
Spectral range	8-14μm
Image setting	Polarity LUT / DVE / Mirror / FCC / 3D DNR / Brightness / Contrast / ROI
Color palettes	White, warm / black, warm / cold, curve / rainbow up to 17 ways

Thermal Lens

Lens Type	Fixed
Focus Control	Manual
Focal length	8mm
F No.	F 1.0
Viewing angle	H: 46° V: 35°

Visible Camera

Image Sensor	1/2.8" Sony CMOS
Effective resolution	1920(H)×1080(V)
Shutter speed	1/5 ~ 1/64,000s
WDR	TWDR 120 dB
Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON), B/W: 0.001Lux @(F1.2, AGC ON)
S/N Ration	>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 (ROI)	Off / On (8 Zones, Rectangles)
Digital zoom	16x
Mirror	Support
Defog	Support
Motion Detection	Support
Privacy Masking	Off / On (4 Area, Rectangles)
DVE Image Enhance	Support
Audio compression	G.711, AMR, RAW_PCM (Optional)

Key Features

- **On-board temp-detection algorithm**
- **One IP address two channels**
- **Effective pixels 400×300**
- **Sensitivity 40mK**
- **Thermal: 8mm Fixed lens, Visible: 2.7-12mm motorized lens**
- **Accuracy 0.3°C**
- **Body detection, up to 30 Targets**
- **Response Time 30ms**
- **17 color control**

Accessory included

BLACKBODY

United States Headquaters – 468 S. San Dimas Ave., San Dimas, CA 91773
Toll Free: (800) 355 0895 | Tel: (909) 305 8889 | Fax: (909) 305 0999
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www.bolideco.com

BOLIDE® TECHNOLOGY GROUP

BN9036TH

HUMAN BODY TEMPERATURE CHECK SOLUTION

Intelligence	
Smart functions	Motion detection, Alarm disc, Alarm I / O, Temperature alarm
IVS	Body detection, Perimeter, Single virtual perimeter, double virtual perimeter, Removed / abandoned objects

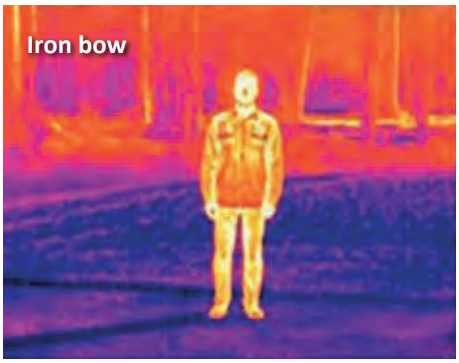
Temperature Detection	
Detection Mode	Body temperature detection
Detection Preset	Max 30 goals
Alarm detection	Temperature overshoot, Temperature difference
Accuracy	±0.3°C (Emission rate, distance, ambient temperature, etc.) with blackbody. Detection Distance: 3~5m (4m recommended). Working Environment: Avoid the interference of wind, sunshine, high temperature and reflective objects, indoor is recommended
Response time	≤30ms
Theory of temperature measurement range	-20°C ~ 60 °C (-4°F ~ 140°F)
Temperature display mode	Target temperature > 5°C, Absolute temperature value; Target temperature ≤5°C, relative temperature value (temperature difference DEV = highest - average value)
Detection distance	Temperature detection distance between 3m to 5m

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
Maximum number of connections	10 users
Edge Storage	Local PC for instant recording 128GB Micro SD card
Web Viewer	<IE11, Chrome, Firefox
Web languages	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian

Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45
Audio interface	1xI / 1xO
Alarms	2xI / 2xO
RS485	Support
Manual reset	Support

General	
Power Supply	12Vcc/PoE (IEEE 802.3af)
Consumption	Max 10W
Operating temperatures	- 30°C~60°C(-22°F~140°F)
Storage humidity	0~90% RH
Certifications	CE/FCC
Degree of protection	IP66
Material	Metal
Dimensions	212x182x136mm
Weight	2Kg

Thermic views



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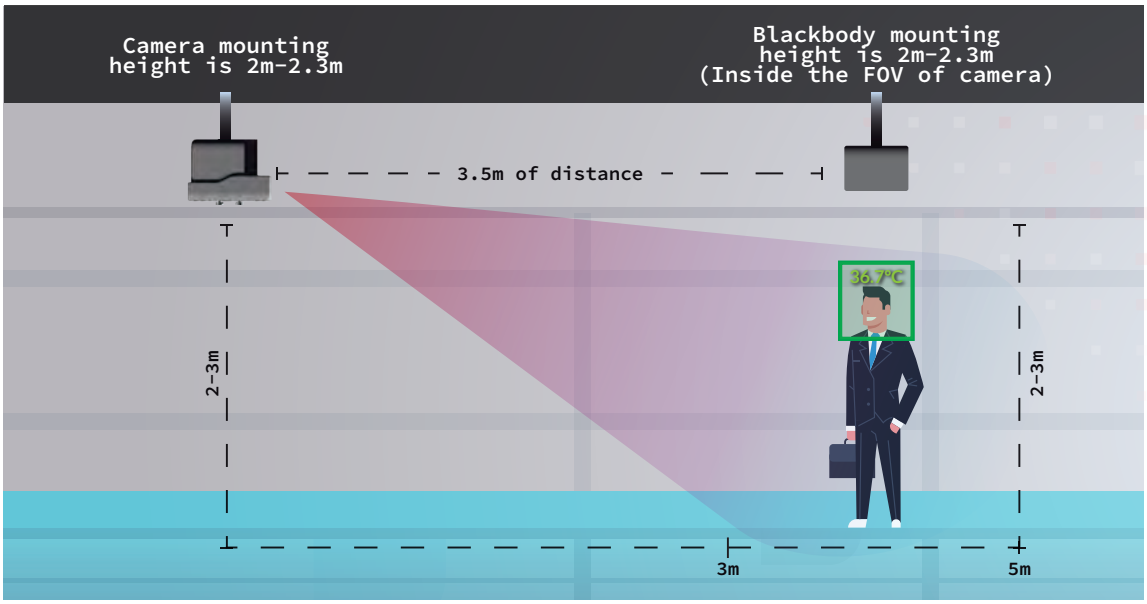
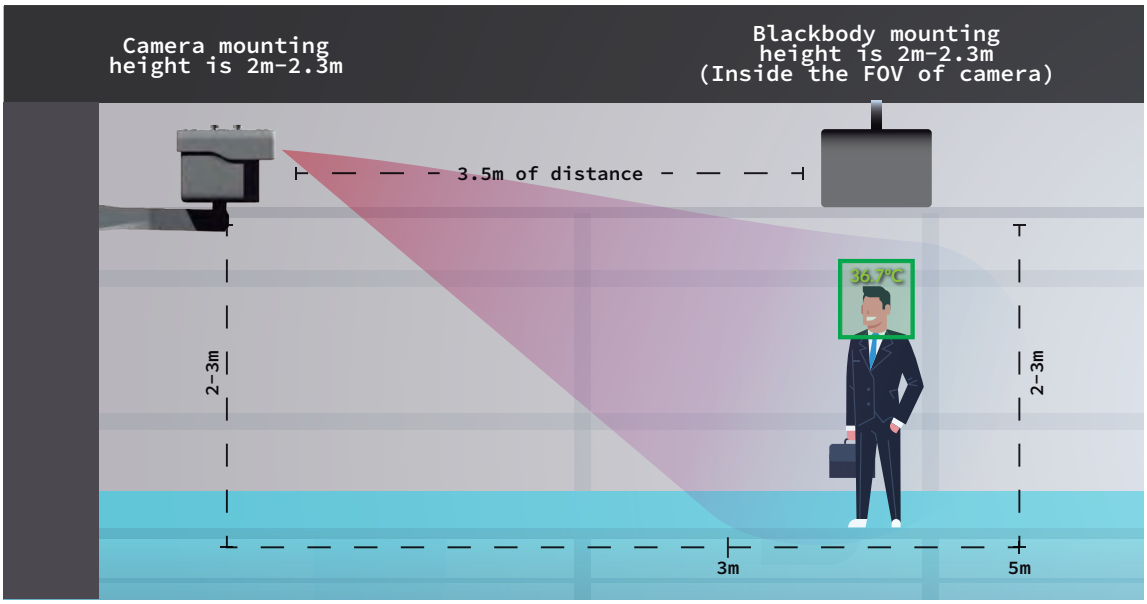
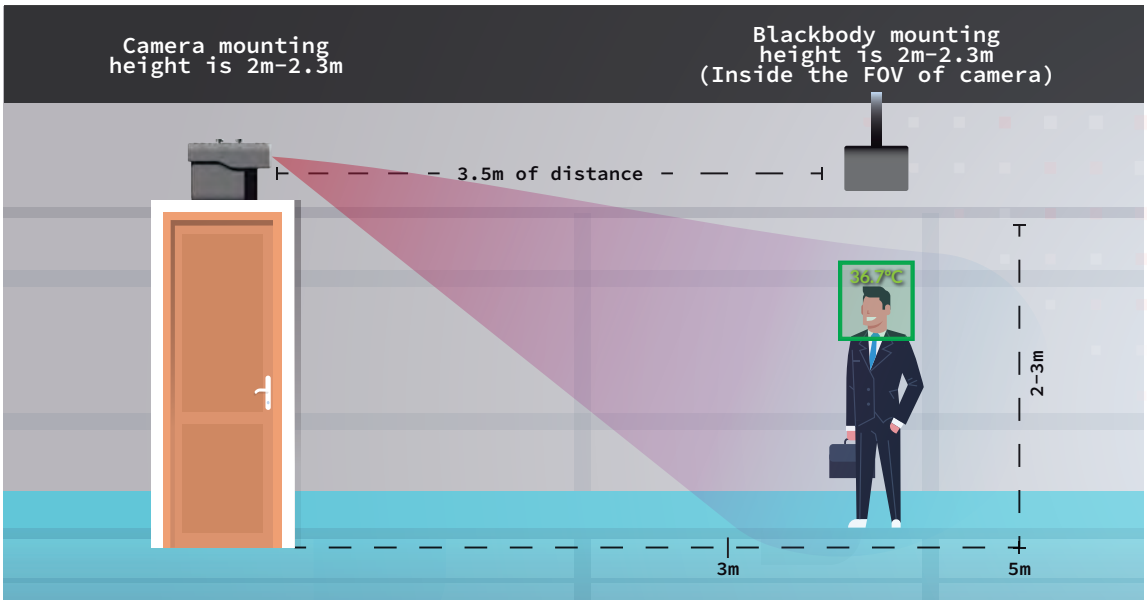
Ceilling Mount



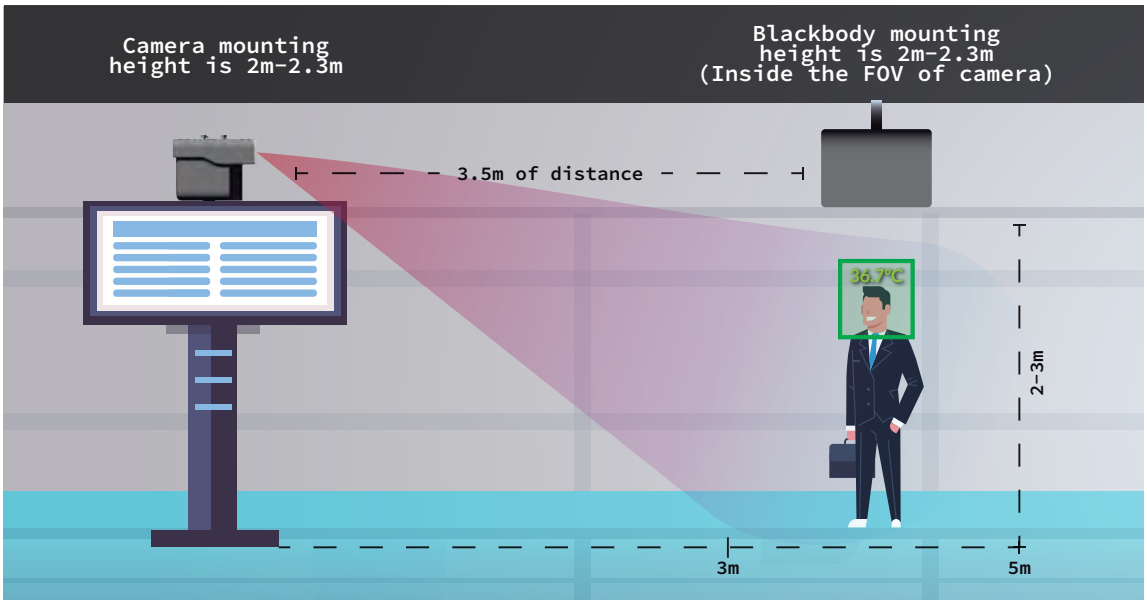
Wall Mount



Installing on the Security Gate



Pedestal Mount



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BODY TEMPERATURE MEASUREMENT CAMERA

BN9136THB

Temperature measurement

Early detection

Quick reaction

BODY DETECTION UP TO 16 TARGETS

Creation of reports

Prevention of diffusion

Preventive isolation

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Certifications

ISO 9001:2015 Certificate

BN9136THB

BODY TEMPERATURE MEASUREMENT CAMERA

Thermal Camera

Detector Type	Uncooled IRFPA Microbolometer
Effective pixels	320(H)×240(V)
Pixel size	20μm
Thermal Sensitivity (NETD)	≤50mK@F.1.0, 300K
Spectral range	8-14μm
Image setting	Polarity LUT / DVE / Mirror / FCC / 3D DNR / Brightness / Contrast / ROI
Color palettes	Black-Heat /White-Heat/Rainbow/Iron-Red up to 14 modes

Thermal Lens

Lens Type	Fixed
Focus Control	Manual focus
Focal length	8mm
F No.	F 1.0
Viewing angle	H: 44° V: 33°

Visible Camera

Image Sensor	1/2.8" Sony CMOS
Effective resolution	1920(H)×1080(V)
Shutter speed	1/5 ~ 1/20,000s
WDR	True WDR 120 dB
Min. Illumination	Color: 0.1Lux @(F1.2, AGC ON), B/W: 0.01Lux @(F1.2, AGC ON)
S/N Ration	>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	Main Stream: Thermal: 100Kbps~6Mbps Visible: 100Kbps~12Mbps Sub Stream: Thermal: 10Kbps~1.5Mbps Visible: 10Kbps~6Mbps
Region of interest (ROI)	Off / On (8 Zones, Rectangles)
Digital zoom	16x
Mirror	Support
Defog	Support
Motion Detection	Support
Privacy Masking	Off / On (4 Area, Rectangles)
DVE Image Enhance	Support
Audio compression	G.711, RAW_PCM

Key Features

- **On-board temp-detection algorithm**
- **One IP address two channels**
- **Effective pixels 320×240**
- **Sensitivity ≤50mK**
- **Thermal: 8mm Fixed lens,**
  Visible: 2.7-12mm motorized lens
- **Accuracy ±0.3°C**
- **Body detection, up to 16 Targets**
- **Response Time ≤50ms**
- **14 color control**

Accessory

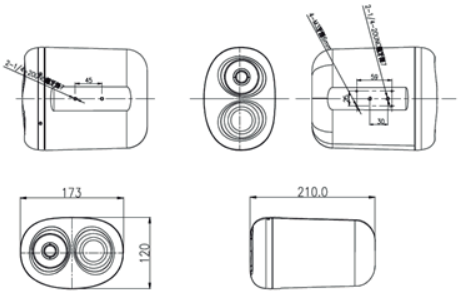
BLACKBODY
(INCLUDE)

TRIPOD
(OPTIONAL)

BE9036THWM
FOR THE WALL MOUNT
(OPTIONAL)

BE9036THPM
PENDENT MOUNT
(OPTIONAL)

Dimensions



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BN9136THB

BODY TEMPERATURE MEASUREMENT CAMERA

Intelligence	
Smart functions	Motion detection, Alarm disc, Alarm I / O, Temperature alarm
IVS	Body detection, Perimeter, Single virtual perimeter, double virtual perimeter, Removed / abandoned objects

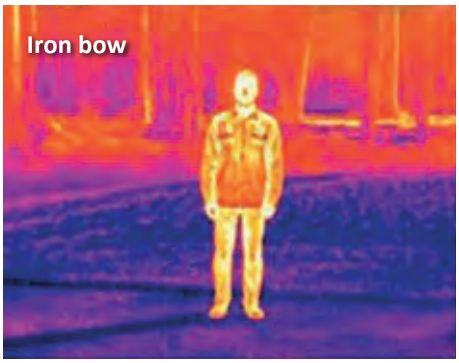
Temperature Detection	
Detection Mode	Body temperature detection
Detection Preset	Max 16 goals
Alarm detection	Over temperature alarm
Accuracy	±0.3°C (Emission rate, distance, ambient temperature, etc.) with blackbody. Detection Distance: 3~5m (4m recommended). Working Environment: Avoid the interference of wind, sunshine, high temperature and reflective objects, indoor is recommended
Response time	≤50ms
Temperature range	0 °C ~ 60 °C (32°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, CGI, SDK
Maximum number of connections	10 users
Edge Storage	Local PC for instant recording
Web Viewer	<IE11, Chrome, Firefox
Web languages	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian

Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45
Audio interface	1ch x In / 1ch x Out
Alarms	2ch x I / 2ch x Out
RS485	Support
Manual reset	Support

General	
Power Supply	DC12V/POE (IEEE 802.3af)
Consumption	Max 10W
Operating temperatures	- 30°C~60°C(-22°F~140°F)
Storage humidity	0~90% RH
Certifications	CE/FCC
Degree of protection	IP66
Material	Metal
Dimensions	210×173×120mm
Weight	2Kg

Thermic views



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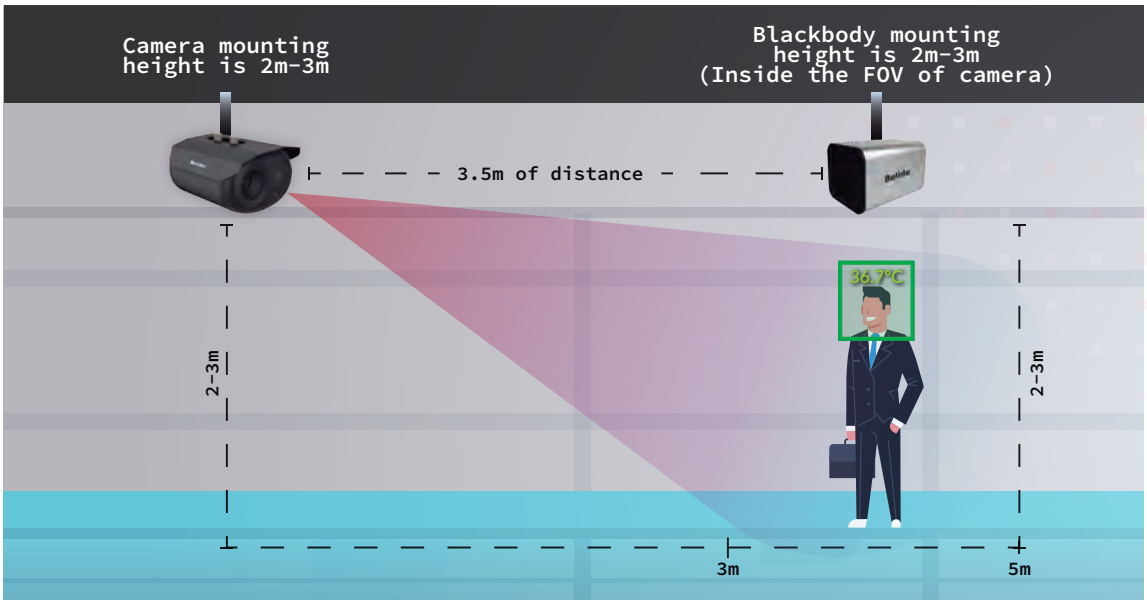
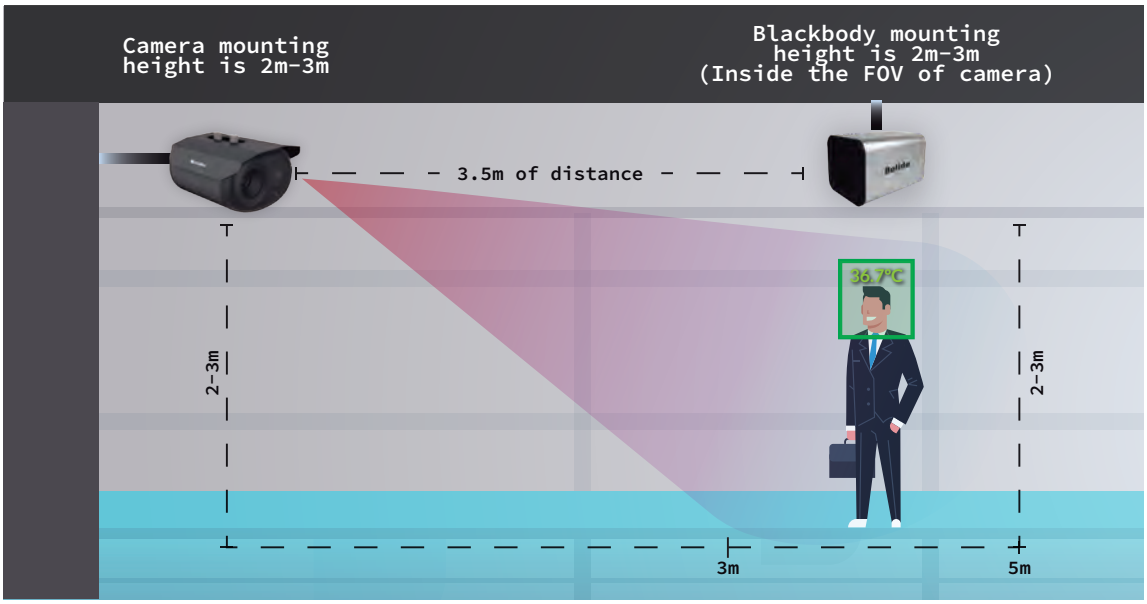
Ceilling Mount



Wall Mount



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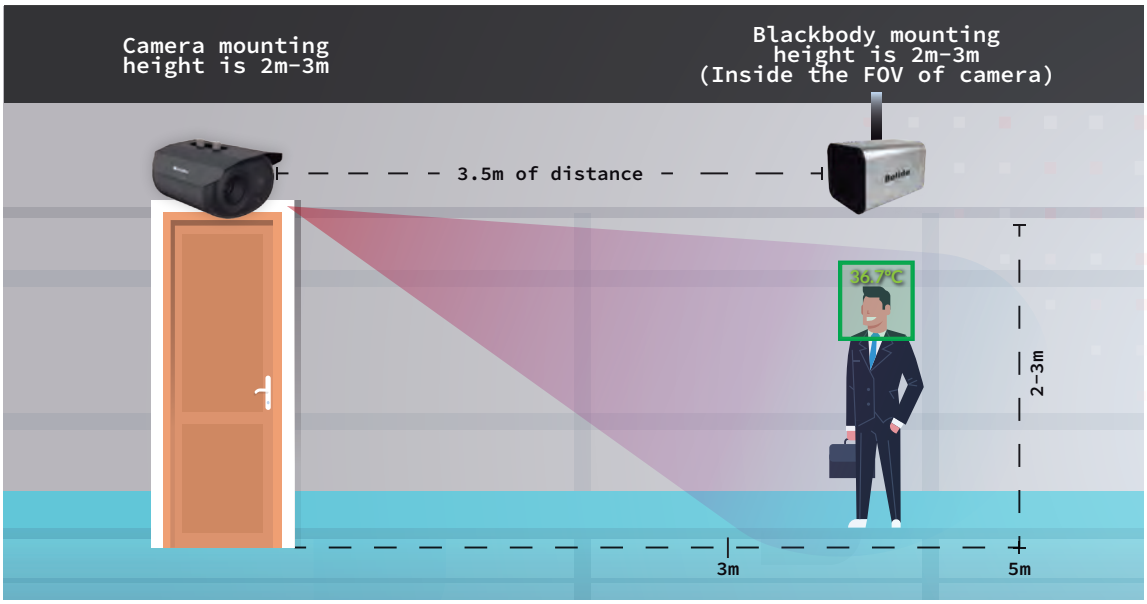
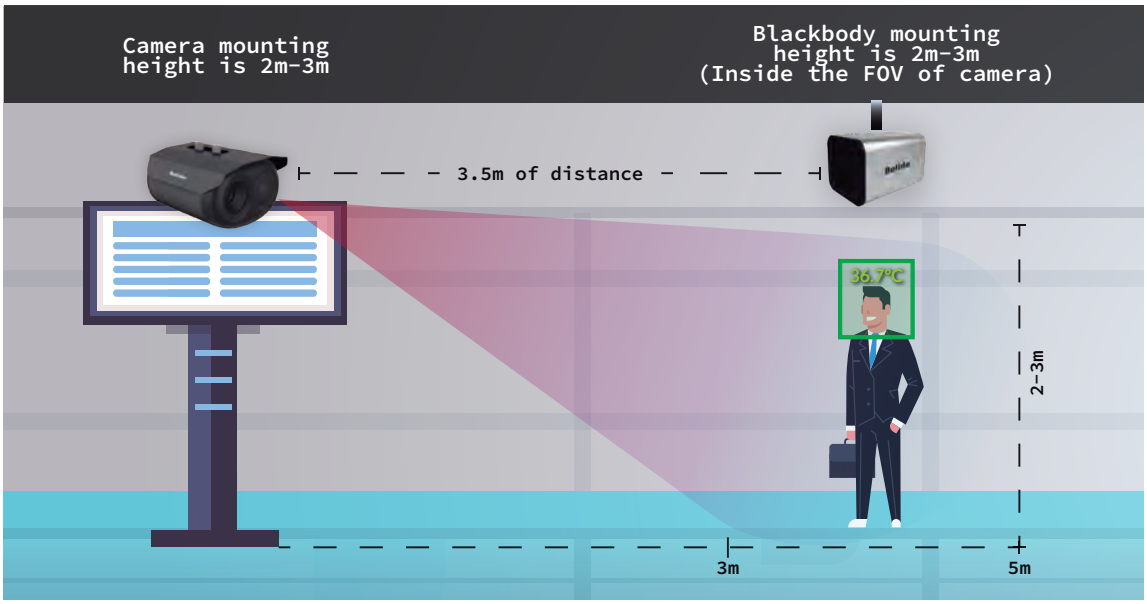
Installing on the Security Gate



Pedestal Mount



BN-2600ACTC

ACCESS CONTROL CAMERA

FACE RECOGNITION/TEMPERATURE INDICATOR

Monitor access to restricted areas using temperature readings and facial recognition thanks to Bolide's BN-2600ACTC access control camera.

Thanks to its backlight management with its WDR and in conjunction with the Instant Face Recognition algorithm (500ms), you can have an accurate face reading and avoid false alarms. Detection can be done even if using a face mask. Register up to 22,400 faces in the database. The camera will issue an audible alert if a person's temperature is too high.

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Certifications

ISO 9001:2015 Certificate

FEATURES

- **Automatic no-contact temperature reading & face recognition efficient and effective**
- **Temperature range: 30-45°C ± 0.3°C accuracy**
- **Detecting people without wearing mask, push alarm message**
- **Can set high temperature alarm**
- **Support temperature data SDK and HTTP protocol integration with third party platform**
- **Support information auto log, no extra manual operation needed**
- **Professional face recognition algorithm with high accuracy, recognition time <500ms**
- **Support wide dynamic ≥ 80dB, can adjust exposure on moving object to get a clear image under strong backlight environment**
- **Linux operation system, reliable and stable**
- **Windows/Linux SDK and HTTP protocol**
- **8 inch IPS high resolution displayer**
- **MTBF > 50.000H**
- **Support 22.400 faces database and 100.000 face recognition records**
- **Support anti-fog, 3D noise reduction, BLC, stabilizer, and different white balance to fit for different application requirements**
- **Support speaker (human temperature normal/high alarm, face recognition result)**

SPECIFICATIONS

Hardware	
Chipset	Hi3516DV300
System	Linux operation system
RAM	16G EMMC
Image sensor	1/2.7" CMOS
Lens	4mm

Camera parameters	
Effective pixel	2MP, 1920*1080
Min. Lux	Color 0.01Lux @F1.2 (ICR) B/W 0.001Lux @F1.2
SNR	≥50db(AGC OFF)
WDR	≥80db

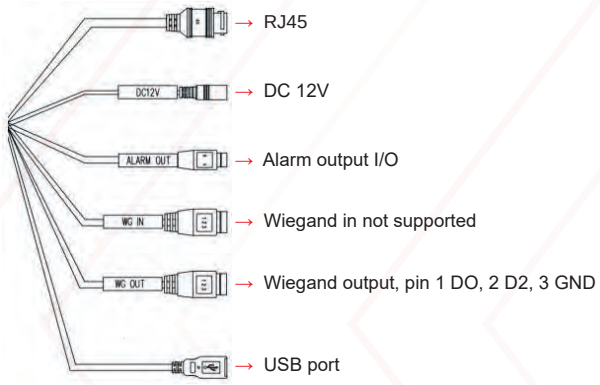
Face recognition	
Height	1.2 - 2.2, angle adjustable
Distance	0.5 - 3 meters
View angle	Vertical ±30°
Reco. Time	<500ms
Function	Support 22.400 faces database and 100.000 records

Temperature	
Range	30-45 °C
Accuracy	±0.3 °C
Distance	0.3 - 0.8 meters
Response time	<300ms

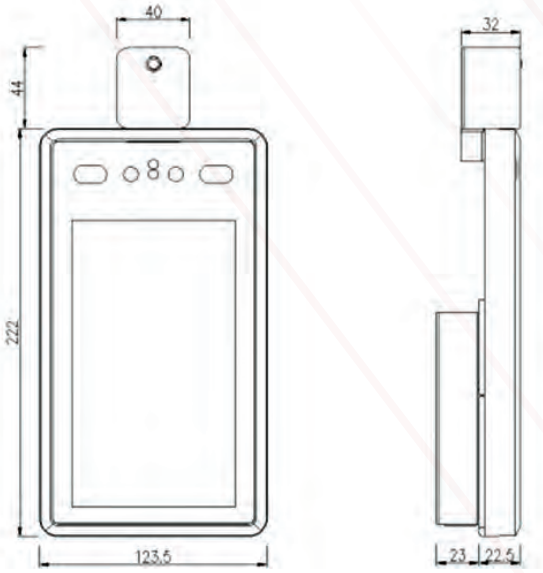
Interface	
Internal interface	RJ45 10M/100M Ethernet
Weigand port	Support input/output 26 and 34
Alarm output	1ch relay output
USB port	1 USB port (can be connected to ID identifier)

General	
Power input	DC 12V/3A
Power consumption	20W(MAX)
Working temperature	0°C ~ 50°C
Humidity	5 ~ 90%, no condense
Dimension	154mm (W) * 89mm (H) * 361.4mm (L)
Weight	2.1kg

INTERFACE



DIMENSIONS



BOLIDE TECHNOLOGY GROUP

IES 50

Intelligent Entry Scanner

The Tidel IES 50 is an all in one, intelligent entry control device designed to support the decision of whether or not to allow personnel to enter a facility. Powered by a high-performance AI processor, the IES 50 is able to quickly process facial recognition and also approximate the surface temperatures of objects and personnel.[1] The IES 50 can also rapidly detect a facial profile, even when that person is wearing a mask. Its compact footprint, accuracy, speed, and simple deployment make it an ideal access control solution for a wide variety of environments.

The IES 50 can also be easily integrated into your door access control systems. The IES 50 offers a built in relay contact, door and alarm inputs, Wiegand interface, and an RFID card reader.

AVAILABLE MOUNTING OPTIONS

Wall Mount

Desktop Stand

Floor Stand

FEATURES

- Temperature accuracy +/- 0.9 ºF
- Certifications: ETL and FCC
- One year parts warranty
- Enterprise-level deployment capability
- Mask detection
- Facial recognition while wearing a mask
- Temperature scan time ~1 second
- Facial recognition time <300 ms with 50,000 people and <400 ms with 100,000 people registered
- WiFi or RJ45 network connection
- Liveness detection

IES 50

Intelligent Entry Scanner

Specifications

CAMERA	
Resolution	2 million pixels
CMOS	1/2.7 inch CMOS sensor
Lens	2.88mm fixed focus HD
White Balance	Manual or auto
Photo Flood Light	LED and IR Flood Lighting

PROCESSOR	
CPU	ARM Cortex A9@Max. 800MHz 256KB L2 Cache
Storage	RAM: 2GB, FLASH: 16GB
OS	Embedded Linux

SCREEN	
Size	8 inch IPS display
Resolution	1280 x 800

FUNCTION	
Card Reader	Internal RFID card reader
Face Library	Up to 50,000 or 100,000
Identification Distance	1.7 ft. to 6.5 ft.
Mask Detection	YES
Facial recognition with a mask	YES
Interface	IES 50 application
Deployment Method	Stand-alone or networked

CERTIFICATIONS	
USA Certifications	ETL and FCC

IES 50
Intelligent Entry Scanner

Specifications

INTERFACE	
Networking	Ethernet or Wireless (WIFI)
Serial Communication	RS 485
Relay Output	NO - NC - GND
Alarm Input	IN1 - IN2 - IN3
Wiegand	In or Out - Weigand 26/34/37
Wired Network	RJ45 Ethernet

INFRARED THERMAL IMAGING MODULE	
Temperature Detection	200M pixels
Temperature Detection Distance	1.7 ft to 3.2 ft.
Temperature Measurement Accuracy	+/- 0.9º F
Temperature Measurement Range	68º F - 122º F
Abnormal Temperature	Setting Configurable
Abnormal Temperature Alarm	Visual and Audio

ENVIRONMENT & POWER	
Power	100 VAC to 12 VDC
Working Temperature	-4º F to 140º F
Working Humidity	10 - 90% RH (no condensation)

WARRANTY	
Factory Warranty	1 year parts
Extended Warranty	2-3 years available
Warranty Type	Advanced exchange

[1]The IES 50 is able to approximate the surface temperature of subjects for the purpose of assisting in the controlling of access to a facility. If a temperature is identified that appears to be outside a specified range, additional inquiry will be needed to determine the cause. That inquiry may or may not include seeking medical attention from a health care provider. The IES 50 is not a medical device and has not been evaluated by the Food and Drug Administration. The IES 50 is not intended for use in the diagnosis of disease or other conditions or in the cure, mitigation, treatment, or prevention of disease.

BOLIDE®
TECHNOLOGY GROUP

BC2036-PTC

Portable Thermal Camera System

Automatic rapid infrared thermal imaging for body temperature screening

Flexible combination, more efficient temperature measurement

- No-contact rapid screening
  Avoid cross infection
- 3.5" External display
  Full video image recording
- 24h Use external power
  24 hours non-stop usage
- High-precision body temperature measurement algorithm

Certification

ISO 9001:2015
Certificate

WWW.BOLIDECO.COM

CHARACTERISTICS

Bolide's portable camera offers an efficient and practical temperature control system. Thanks to its portability you can move the camera and its protection case to the area you would like to have monitored. Using the cameras built-in in screen or through an external monitor, you can have a real-time visual of the temperature measurements. The camera is designed to work 24 hours non-stop to ensure you're covered at all times.

FEATURES

- Blackbody real-time calibration
- High-precision body temperature measurement algorithm
- 24 hours non-stop testing
- More accurate temperature measurement
- Significantly improved stability
- Long-distance rapid screening

TECHNICAL SPECIFICATIONS

General	
Resolution	160x120
Temp. range	20 °C ~ 50 °C
Accuracy	≤ 0.3 °C
CCD	1.3 Million pixel
Working Temp.	0 °C ~ 40 °C
LCD	3.5" LCD
Function	Abnormal temperature alarm, automatic capture, video, photo, etc.

ACCESSORIES INCLUDED

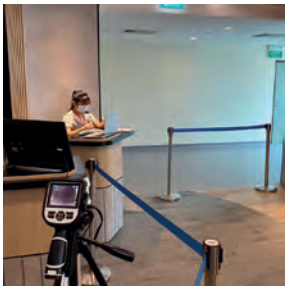
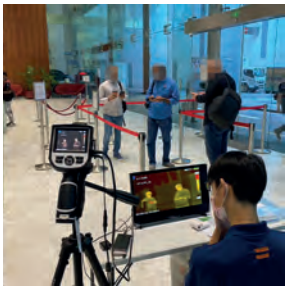
BLACKBODY

TRIPOD

BATTERY

VIDEO CABLE

POWER ADAPTER

CARRYING CASE

TF CARD