IRIS

IRIS-3420 / 3421
Radiometric Body Temperature Measurement Systems

Key Features:

- Accuracy ±0.3℃
- 320 x 240 Resoltion / 20µm Pixel Pitch
- Thermal Sensitivity <50mK
- Processes Up To 45 Targets at Once
- Response Time <50ms
- Supplied with Black Body Calibration Unit
- Thermal Camera: 8mm Fixed Lens
- Visible Camera: 2.7~12mm Motorized Zoom Lens
- ONVIF Compliant
- 12VDC / PoE (IEEE802.3af)

Applications:

- Smart Body Temperature Detection
- Public Spaces / Events
- Airports / Railway Stations / Ports
- Building Sites & Workplaces
- Schools / Colleges / Hospitals
- Fever Detection in Crowds or Fast Moving People
- Stadiums / Sporting Events

Black-Body Calibration Box

Following the devestation caused by the outbreak of the Covid 19 pandemic, the world has been forced to accept that this and other such threats in the future can shatter the lives of millions of people around the world - both directly and also indirectly through the collapse of economies. But with the aid of the latest intelligent thermal processing technology, it is possible to monitor, detect and contain individuals who pose a threat to others, increasing the safety of workplaces, schools and colleges and leisure activities such as sports matches, theater, restaurants and so on.

The IRIS3420 system comprises a highly sensitive dual sensor camera unit containing a thermal core and visible camera with a calibrated black body unit to allow mass processing of groups of people - measure the temperature of up to 45 people at any one time and reporting fever alarms in under 50ms. The black-body calibration device is an extremely stable temperature generator which is set to a controlled value for the camera to compare against thus providing an excellent level of accuracy.

Simply set up the camera at the entrance point or any control point along your visitors journey with the black box in the frame and the camera will measure facial temperature of up to 45 people in the frame. Specially designed software running on a PC terminal at your check point will then display both the thermal and visible image, with the facial temperature displayed alonside each person. If the measured temperature is above the alarm threshold the target can be identified and isolated thus halting the risk of infection at that point.
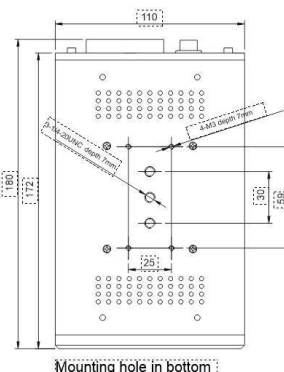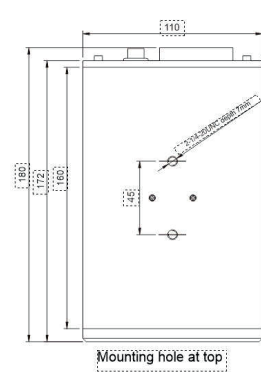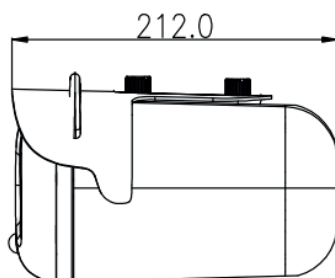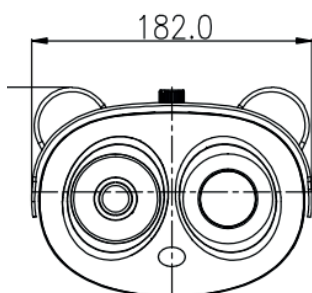
ONVIF

Mounting hole at top

Mounting hole in bottom

Camera Options:

Model No.	Format	Resolution	Lens	Maximum No. of Targets at any time
3420	Dual IP (1 x IP Address)	320 x 240		16 People
3421	Dual IP (1 x IP Address)	300 x 400		45 People

Specifications:

	IRIS3420	IRIS3421
Features	Motion Detection / I/O Alarm / Disk Alarm / Temperature Alarm	
Video Processing	Smart Body Detection / Perimeter Detection / Single Virtual Fences / Double Virtual Fences / Object Left / Object Removed	
Temperature Detection Targets (Max)	16 People at one time	45 People at one time
Accuracy	±0.3˚C (Emission Rate, distance, ambient temperature etc) with Black Body. Environmental Temperature 5˚C ~ 40˚C (41˚F ~ 104˚F)	
Detection Range / Environment	3 ~ 5m Detection Distnace (4m Recommended) / Not for use outdoors (suitable for use inside tents / marquees etc)	
Detection Response Time	<30ms	
Operational Temperature Range	0˚C ~ 60˚C (32˚F ~ 140˚F)	
Detector Type	Uncooled IRFPA Microbolometer	
Effective Pixel resolution (Thermal Camera)	320 x 240 @ 17μm	400 x 300 @ 17μm
Effective Pixel resolution (Visible Camera)	1920(H) x 1080(V)	
Thermal Sensitivity / Spectral Range	<40mK @ F1.0, 300K / 8 ~ 14μm	
Colour Palettes	Black Heat / White Heat / Rainbow / Iron-Red (up to 17 modes)	
Export Classificaton	6a003b4b - Export Controlled - Check the jurastiction of your territory for regulations	
Lens Details - Thermal / Visible Camera	8mm Fixed F1.0 46˚(H) x 35˚(V)	2.7 ~ 12mm Motorized Zoom F1.6 ~ 2.9 105˚ ~ 32˚ (H)
Compression	H.265, H.264, MJPEG	
Frame Rate	Main Stream: Visible 1920x1080/1280x720 @ 25/30fps / Thermal D1 @ 25/30fps Sub Stream: Visible D1/VGA/640x360/CIF/QVGA @ 25/30fps / Thermal CIF @ 25/30fps	
Bit Rate	Main Stream: Thermal 100Kbps~6Mbps. Visible 100Kbps ~ 12Mbps Sub Stream: Thermal 10Kps / 1.5Mbps, Visible 10bps ~ 6Mbps	
Bit Rate Control	CBR / VBR	
Dimensions / Weight	212mm x 182mm x 136mm / 2.1Kg	
Power	12VDC / PoE (IEEE802.3af)	