

Thermal Cameras



BT-J160/JB160

Thermal Body Cameras Dual Vision with Face Recognition



Product Features

- Accuracy $\pm 0,3^{\circ}\text{C}$ (BT-JB160) and $\pm 0,5^{\circ}\text{C}$ (BT-J160)
- Face Recognition
- Dual Vision with intelligent match of thermal imaging and visible light.
- Multi-target tracking and analysis (up to 20 people simultaneously).
- Certified Calibration Accuracy (mod. BT-JB160)
- Wide field of view and accurate recognition
- Simultaneously tracking 20 targets at most
- Measurement Distance 1~4m
- **ONVIF** Standard
- Compact size
- Easy Installation
- Support three levels alarm settings
- Built-in alarm buzzer.
- Kit including camera, blackbody, wall bracket and tripod.

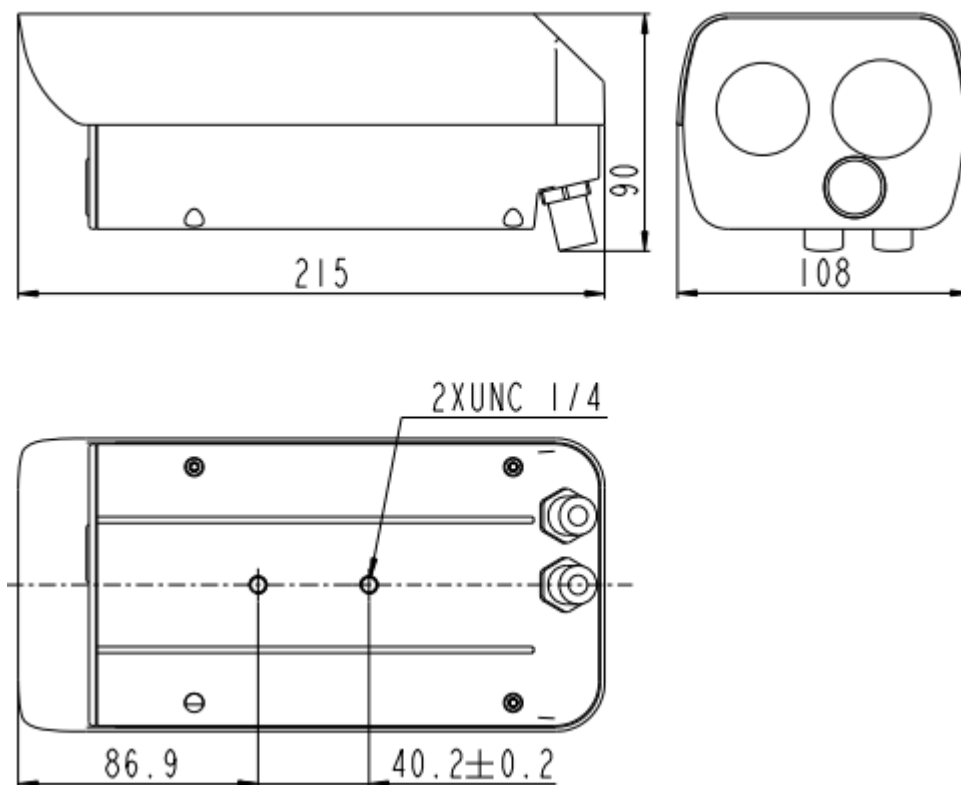
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Dimensions



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Camera	BT-J160	BT-JB160
Thermal Module		
Sensor	Uncooled amorphous silicon FPA (Focal Plane Array)	
Resolution	160x120	
Pixel Area	17μm	
Wavelength	8~14μm	
Frequency	15Hz	
NETD (Noise Equivalent Temperature Difference)	≤50mk	
Lens	4mm F=1.0	
FoV	40° (H) x 30° (V)	
iFoV	4.4mrad	
Minimum focusing distance	0.2m	
Measurement range	20°C~50°C	
Accuracy	±0.5°C	±0.3°C
Measurement distance	1~4m	
Color Module		
Sensor	CMOS 1/2.7" progressive scan	
Resolution	2.0 Megapixel	
Pixels (H x V)	1920 x 1080	
Frequency	25Hz	
Minimum Illumination	0,01 Lux F=1.2 (color)	
Electronic Shutter	1/25~1/100.000sec	
Lens	6.0mm F=1.2	
FoV	56° (H) x 32° (V)	
WDR	120dB	
Day & Night	Auto/Man • IR cut filter	
Special Functions		
Temperature Detection	Multi-Target Analysis • up to 20 people simultaneously	
Temperature Measurement	Face Recognition Face recognition • Intelligent human temperature tracking measurement Intelligent human temperature correction	
Recognition Accuracy	>99%	
False Accept Rate	<5%	
Measurmenet Target Range	20°C~50°C	
Operating Detection Temperature	10°C~45°C • Environment temperature 16°C~30°C accurate temperature measurement	
Calibration	Internal and automatic calibration	Internal and external black body automatic calibration
Thermal Calibration Accuracy	n.a.	±0.2°C
Emissivity Correction	The emissivity is adjustable from 0.01 to 1.0 or corrected by a predefined	
Event Log	Supported	
Network and Video		
Onvif Standard	S Profile supported	
Video Compression	H.264	
Ethernet	RJ45 10/100Base-T autosensing	
Live Viewing	Simultaneous • Thermal and Visible image • Picture in Picture	
Network Image resolution	Main Stream: 2.0MP (1920x1080)/25ips • Sub Stream: VGA (640x480)/25ips	
Protocols	TCP/IP • ICMP • HTTP • HTTPS • FTP • DHCP • DNS • DDNS • RTP • RTSP • RTCP PPPoE • NTP • UPnP • SMTP • IGMP • QoS • MTU	

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Camera	BT-J160	BT-JB160
Network and Video (follows)		
Security	Password protected	
Browser	Internet Explorer and Chrome (for display only)	
SDK/API	SDK/API: 3 Levels Alarm, Point, Line, Rectangle Measurement	
Interfaces		
Camera Alarm	1/1 I/O • Build-in warning lights and speakers	
Serial Ports	1 x RS232 • 1 x RS485	
Reset	Reset button	
Electromechanical features		
Power supply	12Vdc (220 with external power supply included)	
Max. power consumption	3.6W	
Ingress protection	IP66	
Weight	850g	
Dimensions (L x H x W)	108 x 90 x 215mm	
Working environment	-30°C~60°C • RH <90% max. non condensing	
Housing	Aluminum • wall bracket included	
Blackbody (BT-JB160 camera only)		



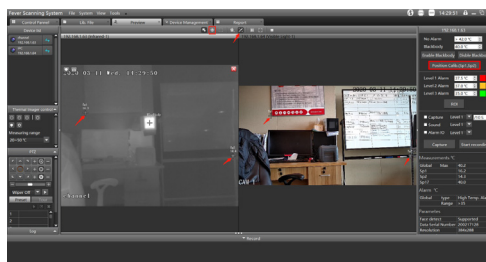
General Features		
Thermal Calibration Accuracy	±0.2°C	
Temperature Stability	0.1~0.2°C/30min	
Adjustable Temperature	30°C~45°C	
Thermal Surface	100 x 80mm	
Power Supply	220Vac	
Consumption	40W	
Operating Temperature	0°C~30°C • Max. <90% RH (non condensing)	
	Environment temperature 16°C~30°C accurate temperature measurement	
Dimensions (L x H x W)	150 x 110 x 200mm	
Weight	2.05	

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VMS Multi Site



Temperature Measurement	Face Detection • Intelligent human temperature tracking measurement Intelligent human temperature correction
Parameter Setting	Video adjustment • alarm temperature setting • full screen mode setting • image segmentation setting • reference temperature • indication of the measured temperature, on visible and thermal image • blackbody reference temperature setting • etc.
Alarms Temperature Setting	Alarm setting on 3 temperature levels: for healthy people, re-inspections and with fever
Alarm Levels	Alarm snapshot • sound alarm
Events Log	Query and process historical alarm data
Double Spectrum Match	Intelligent match of thermal imaging and visible light • synchronous alarm
Certifications and Warranty	
Accuracy	Calibration certificate of Zhejiang Institute of Metrology (BT-JB160 only) Each camera is individually certified
Security	CE • RoHS
Warranty	12 Months
Kit Composition	
▪ 1 x Bi-Spectrum Camera ▪ 1 x Blackbody ▪ 1 x Tripod ▪ 1 x Wall bracket	
In order to constantly improve the product, the manufacturer reserves the right to change specifications without notice	
BT-J160 and BT-JB160 ITA Datasheet Ver. 1.1	