

IM610-BZ

Long Range Bi Spectrum Thermal Camera

640×512 resolution IR
detector

IP66 rated for use in harsh
environments

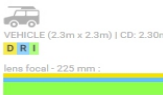
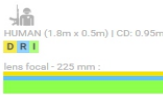
A high resolution Sony visual camera
gives crisp digital images

Multi sensor system that has day and night
vision capabilities enabling observation in any
weather including fog and rain



SPECIFICATION	
Model	IM610-BZ
Thermal Module	
Detector Type	Uncooled VOx Focal Plane Arrays 640×512
Resolution	640×512. Image can be scaled up to 1280×1024
Pixel Pitch	12 μm
NETD	≤40 mK
Spectral Range	8~14 μm
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 9 modes
Thermal Lens	
Focus Control	Auto/Manual/Semi-automatic
Focal Length	25mm~225mm
Zoom	8x Optical Zoom
Aperture	F1.0
FOV	17.5° x 14°. 2° x 1.6°
DRI Distance	Detection/Recognition/Identification
Vehicle(2.3*2.3m)	28750m/7190m/3590m
Human(1.8*0.5m)	11870m/2970m/1480m
Optical Module	
Image Sensor	SONY 1/1.8" Exmor CMOS
Effective Resolution	1920 (H)×1080 (V), 2MP
Shutter Speed	1/5 ~ 1/20,000s
Min. Illumination	Color: 0.01 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux(F1.5, AGC)
WDR	True WDR
Focal Length	6.91 to 300mm
Max Aperture	F1.35-F5.3
Angle of View	H:58.9° to 35.4°, V:1.49° to 0.84°
Zoom	43x Optical zoom
Stabilization	Electronic Anti vibration
Focus Control	Auto/Manual/Semi-automatic
Mirror	Support
Defog	Support
Privacy Masking	Support

SURVEILLANCE SYSTEM



Long Range Bi Spectrum Thermal Camera

PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +60° ~ -60°
Pan/Tilt Speed	Pan: 0.02° ~ 48°/s, Tilt: 0.02° ~ 8°/s
Wiper	Support
Preset Accuracy	± 0.1°
Presets	128
Scan	8 scans, up to 32 presets per scan
Patrol	12 patrols, up to 32 presets per scan
Track	4 tracks
3D Positioning	Support
Speed Setup	Auto/Manual (0-8)
Power Off Memory	Support
Idle Motion	It can activate Preset/ Scan/Tour/Pattern if there is no command in the specified period
Video and Audio	
Main Stream	Thermal: 1280×1024, 1280×720, 640×512 @ 25/30fps Optical: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps
Sub Stream	Thermal: D1, CIF @ 25/30fps Optical: D1, VGA, 640×360, CIF, QCIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: Main stream: 100Kbps~8Mbps, Sub stream: 100Kbps~6Mbps Optical: Main stream: 100Kbps~12Mbps, Sub stream: 100Kbps~6Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 (8kbps), RAW_PCM (16kbps)
Smart Function	
Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm
Smart Detection	Support human/vehicle detection, fire point detection, smoke and fire detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area Support alarm triggering by specified target types (human and vehicle), People Counting
Temperature Detection(Optional)	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2°C / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C to 150°C (-4°F to 302°F), -20°C to 550°C (-4°F to 1022°F) Optional
Network	
Protocols	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, 802.1x
Interoperability	ONVIF (Profile S/T/G/M), CGI, SDK
Max. User Access	Up to 10 users, 3 levels: Administrator, Operator, Media user
Web Viewer	<1e11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian
Interface	
Network Interface	2 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output
Alarm Interface	1ch output
Rs485	Support
CVBS Interface	1ch output
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 256GB
General	
Power Supply	DC24V(Standard version) DC36V(Anti frozen version)
Power Consumption	Max 120 W
Working Temperature	-40°C~ 60°C
Storage Conditions	0~ 90% RH
Certifications	CE/FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	610×373 ×711mm
Net Weight	≤ 38Kg