



# Bi-Spectrum Series 4 (15mm)

Thermal & Optical Bi-spectrum PTZ

Camera IMC4-Bi-15



## Key Features

- VOx uncooled focal plane detector with 640×512 resolution
- NETD ≤ 40mK
- 9/15/25/35/50 mm fixed focus thermal lens optional, 30x optical zoom module
- Support human/vehicle detection, fire point, smoke and fire detection
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area
- Support temperature monitoring and abnormality alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: -20°C ~ 150°C (-4°F ~ 302°F)
- Power off self-locking, strong wind resistance
- NDAA Compliance, Anti-frozen, IP66

# Specification

Thermal Module					
Image Sensor	Uncooled VOx Focal Plane Arrays				
Resolution	Sensor is 640x512. Image can be scaled up to 1280x1024				
Pixel Pitch	12µm				
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 17 modes				
Thermal Lens					
Focus Mode	Fixed Focus, Free Focus				
Focal Length	9 mm	15 mm	25 mm	35 mm	50 mm
Aperture	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H: 48°, V:38°	H:29°, V:23°	H:17°, V:14°	H: 12°, V:10°	H: 8°, V:7°
Detection Distance (Fire: 1*1m)	375 m	625 m	1042 m	1458 m	2083 m
Detection Distance (Humans: 1.8*0.5m)	375 m	624 m	1040 m	1456 m	2081 m
Detection Distance (Vehicles: 4*1.5m)	1150 m	1917 m	3194 m	4472 m	6389 m
Recognition Distance (Humans: 1.8*0.5m)	94 m	156 m	260 m	364 m	520 m
Recognition Distance (Vehicles: 4*1.5m)	288 m	479 m	799 m	1118 m	1597 m
Optical Module					
Image Sensor	1/2.8" Sony CMOS				
Max. Resolution	2592 (H)x1520 (V), 4MP				
Shutter Speed	1/5 ~ 1/20,000s				
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), B/W: 0.001 Lux				
WDR	True WDR				
Focal Length	5.3 ~ 159mm, 30x optical zoom				
Aperture	F1.6 ~ F4.3				
Angle of View	H: 55° ~ 2.3°, V: 41.6° ~ 1.7°				
Digital Zoom	16x				
Focus Control	Auto/Manual/Semi-automatic				
Mirror	Support				
Defog	Support				
Privacy Masking	Support				
PTZ					
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +90° ~ -90°				
Pan/Tilt Speed	Pan: 0.01° ~ 60°/s, Tilt: 0.01° ~ 30°/s				
Wiper	Support				
Preset Accuracy	± 0.1°				
Presets	400				
Scan	8 scans, up to 32 presets per scan				
Patrol	12 patrols, up to 32 presets per scan				
Track	6 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: 1280x1024, 1280x720, 640x512 @ 25/30fps Optical: 2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30fps
Sub Stream	Thermal: D1, CIF @ 25/30fps Optical: D1, VGA, 640x360, 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	G711: 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 (these 7 function support accurate detection of people/vehicles), People counting
Temperature Detection	
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) Customizable
Network	
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x
Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	2ch Audio In,2ch Audio Out
Alarm Interface	9ch Alarm In,4ch Alarm Out
RS485	Support
BNC Output	Support
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 256GB
General	
Power Supply	DC36V
Power Consumption	Max 80 W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	419x282x316mm (16.5 x 11.1 x 12.44 inch)
Net Weight	15Kg (Contains 25 mm lens) (33.1 lb)

## Dimensions (mm)

