



BIS-T4F4QCIF4

Bi-spectrum Turret Network Camera



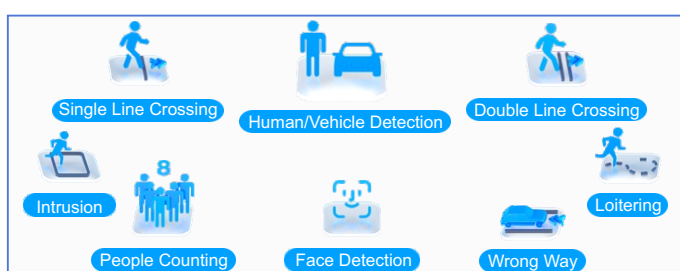
KEY FEATURE

- 256 x 192 resolution, 12 μ m, VOx UFPA, NETD $\leq$ 50 mK
- Lens Options: Thermal: 3.5mm/7mm fixed; Visible: 4mm/8mm fixed
- Detection Capabilities: Human/vehicle, smoker, smoke & flame, fire point detection
- Intelligent analytics: intrusion, single/ double line crossing, loitering, wrong-way, people counting, enter/leave area detection, smart motion detection
- Support 3 temperature measurement rule types (spot, line, area)
- Image Processing: DVE, 3D DNR, WDR
- Built-in mic, speaker, and strobe light; supports sound-light alarm
- Smart IR distance up to 35m/50m
- Support I/O alarm, RS485, built-in SD card slot
- Power Supply: DC12V/DC24V, PoE

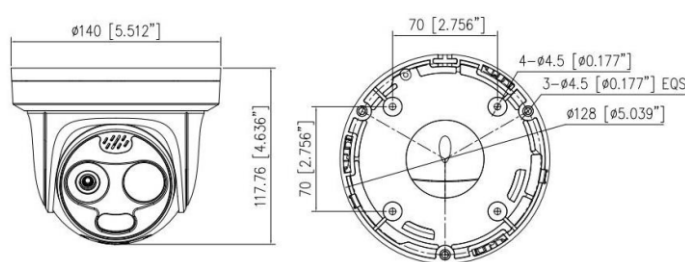
ACCESSORIES



FREE STANDARD EMBEDDED ANALYTIC



DIMENSIONS (MM)



Why Choose Bispectral Network Camera?

The Bispectral series camera the best in both thermal and visible imaging technologies for real-time scene views for the most challenging surroundings. This means in any lighting condition—wind, rain, fog, snow—your security cameras will be able to capture the incident as it unfolds, send an alert to relevant personnel or deter intruders with sound and light, and collect detailed information to for forensic review.



SPECIFICATION		
CAMERA	THERMAL	VISIBLE
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	1/2.7" CMOS
Max. Resolution	256(H)×192(V), Image can be scaled up to 704×576	2560(H)×1440(V)
Pixel Pitch	12μm	
Spectral Range	8 ~ 14μm	
NETD	≤ 50mK	
Min. illumination		Color: 0.05Lux @(F1.6, AGC ON), B/W: 0.005Lux @(F1.6, AGC ON), 0Lux with IR
Shutter Speed		1/5 ~ 1/20,000s
Lens Type	Fixed	Fixed
Focal Length	3.5 mm, 7mm optional	4 mm, 8 mm optional
Max. Aperture	F1.0	F1.6/F2.0
Focus Control	Fixed focal	Fixed focal
Angle of View	3.5 mm: H: 48°, V: 36°; 7 mm: H: 24°, V: 18°	4 mm: H: 92°, V: 46°; 8 mm: H: 40°, V: 20°
IVS		
AI Multi-Target	Human and vehicle detection	Human and vehicle detection
Intelligent Analysis	Intrusion, Single/Double line crossing, Loitering, Wrong way, Enter/Leave area, Smart motion detection. Support alarm triggering by specified target types (human and vehicle)	
Smoker Detection	Support	
Smoke and Flame Detection		Support
Fire Spot Detection	Support	
People Counting	Support	Support
VIDEO AND AUDIO		
Main Stream	D1 (704×576) @25fps	2560×1440, 2304×1296, 1920×1080, 1280×720@25fps
Sub Stream	D1, CIF, 256×192 @25fps	D1, VGA @25fps
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	Main Stream: 100Kbps~3Mbps, Sub Stream: 100Kbps~3Mbps	Main Stream: 100Kbps~12Mbps, Sub Stream: 100Kbps~6Mbps
Smart Encode	Support	Support
Audio Compression	G.711 A-law, G.711 μ-law, RAM PCM	G.711 A-law, G.711 μ-law, RAM PCM
IMAGE		
Image Setting	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness
Mirror	Horizontal / Vertical / Horizontal+Vertical	Horizontal / Vertical / Horizontal+Vertical
Pseudo-color Setting	Up to 17 colors (White-hot/ Black-hot/ Rainbow/ Iron red/ HSV/ Bone/ Cool/ Copper / Fire-hot/ Pink/ Spring/ Summer/ Autumn/ Winter/ Jet/ Flame / Rose -Bengal)	
FFC Control	Auto / Manual	
Gain Control		Auto / Manual
White Balance		Auto / Tungsten / Fluorescent / Daylight / Shadow
Day/Night		Day mode / Night mode / Time
Noise Reduction	2D/3D DNR	2D/3D DNR
Image Enhancement		WDR, HLC, BLC
Wide Dynamic Range		True WDR 120dB
OSD	Up to 8 OSD	Up to 8 OSD
Privacy Masking	Up to 4 areas	Up to 4 areas
Illuminator		IR Range: -4 mm: Up to 35m (114.83 ft.) -8 mm: Up to 50m (164.04 ft.)
THERMAL FUNCTION		
Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F)	
Accuracy	±2°C / ±2%	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).	
Temperature Display	Display in the lower left corner; follow the cursor display of the highest, lowest or average temperature	
Image Fusion	Fusion view of thermal view and overlaid details of the optical channel	
EVENT		
Alarm Triggers	IVS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection	
Alarm Events	Alarm out, Audio alarm, Flashing light alarm, Alarm record, SMTP, FTP upload	

NETWORK					
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, 802.1x, SNMP, Multicast				
Compatible Integration	ONVIF (Profile S/T/G/M), CGI, SDK				
User/Host Level	Up to 10 users, 3 levels: Administrator, Operator, Media user				
Security	IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x				
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge				
INTERFACE					
Network Interface	Ethernet (10/100 Base-T) RJ-45 Connector				
Audio Interface	1ch input, 1ch output				
Built-in MIC	Support				
Built-in Speaker	Support				
Alarm Interface	1ch input, 1ch output				
RS-485	1				
SD Card Slot	Support Micro SD card, up to 512GB				
Reset Button	Support				
GENERAL					
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English				
Power Supply	12 VDC/24 VDC/PoE (802.3af)				
Power Consumption	Max 10W				
Working Temperature/ Humidity	-40°C to 60°C (-40°F to 140°F)/ Less than 90% RH				
Certifications	CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019))				
Ingress Protection	IP66				
Material	Metal				
Dimensions	φ140 × 117.8 mm (5.51 × 4.64 inch)				
Net Weight	1.03 Kg (2.27 lb)				
DETECTION RANGE TABLE					
VCA Detection Distance (Human: 1.8 × 0.5m)	47 m (154.2 ft)	84 m (275.6 ft)	145 m (475.7 ft)	188 m (616.8 ft)	280 m (918.6 ft)
VCA Detection Distance (Vehicle: 4 × 1.5m)	110 m (360.9 ft)	190 m (623.4 ft)	280 m (918.6 ft)	380 m (1,246.7 ft)	450 m (1,476.4 ft)
Temperature Measurement (Object: 1 × 1m)	150 m (492.1 ft)	250 m (820.2 ft)	417 m (1,368.1 ft)	583 m (1,912.7 ft)	833 m (2,732.9 ft)
Temperature Measurement (Object: 0.2 × 0.2m)	30 m (94.4 ft)	50 m (164 ft)	83 m (272.3 ft)	117 m (383.9 ft)	167 m (547.9 ft)
Fire Detection (Object: 1 × 1m)	375 m (1,230.3 ft)	625 m (2,050.5 ft)	1,042 m (3,418.6 ft)	1,458 m (4,783.5 ft)	2,083 m (6,834 ft)
Fire Detection (Object: 0.2 × 0.2m)	75 m (246.1 ft)	125 m (410.1 ft)	208 m (682.4 ft)	292 m (958 ft)	417 m (1,368.1 ft)

Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

