

Item code: 70500-IWH-21TIX

Product description: IP Thermal & Optical Bi-spectrum Bullet Camera 2 MP

Main features: Thermal & Optical Bi-spectrum Network Bullet Camera, Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays, Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR, Colour: 0.0025 Lux/(F1.6, AGC ON), B/W: 0.0012 Lux/(F1.6, AGC ON); 3 streams, Video Compression: H.265/H.264/MJPEG, H.265+/H.264+, Built-in Micro SD card slot, IP66.



SPECIFICATIONS

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max Resolution	160 × 120 (the resolution of output image is 320 × 240)
Pixel Interval	17 μm
Response Waveband	8 ÷ 14 μm
NETD	< 40 mk (@ 25° C, F#=1.1)
Lens (Focal Length)	3.1 mm
MRAD	5.48 mrad
Field of View	50° × 37.2° (H × V)
Min Focusing Distance	0.2 m
Aperture	F1.1
Optical Module	
Max Image Resolution	1920 × 1080
Image Sensor	1/2.8" Progressive Scan CMOS
Min Illumination	Colour: 0.002 Lux @ (F1.5,AGC ON), B/W: 0.0002 Lux @ (F1.5, AGC ON)
Shutter Speed	1 ÷ 1/100,000 s
Lens (Focal Length)	4 mm
Field of View	87° × 46.2°(H × V)
WDR	Digital WDR
Day & Night	IR cut filter with auto switch
Image Function	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image
Smart Function	
VCA (Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line)
Temperature Range	-20 °C ÷ +150 °C (-4 °F ÷ +302°F)
Temperature Accuracy	± 8 °C (± 14.4 °F)
Fire detection	Dynamic fire point detection, up to 10 fire points detectable
Infrared	
IR Distance	Up to 40 m



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MD-03.11 Rev. 6 - Pag.: 1 di 3

IR Intensity and Angle	Automatically adjusted
Network	
Main Stream	Visible Light 50 Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720) Visible Light 60 Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720) Thermal: 25fps (160 × 120 - the resolution of output image is 320 × 240)
Sub Stream	Visible Light 50 Hz: 25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) Visible Light 60 Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 25fps (160 × 120 - the resolution of output image is 320 × 240)
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with Baseline/Main/High Profile
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
Simultaneous Live View	Up to 20
User/Host level	Up to 32 users 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1 x access control, IP address filtering
Integration	
Alarm Input	2-ch inputs (0-5 Vdc)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1 3.5 mm Mic in/Line in interface Line input: 2-2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear Level; Impedance: 600 Ω
Reset	1 Reset Button
Ethernet	1 RJ45 10 M/100 M Self-adaptive Ethernet interface, 1 RS-485 interface
SD Memory Card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128 G), support manual/alarm recording
Analog Video Output	1.0 V [p-p]/75 Ω, PAL/NTSC/BNC
Application Programming	Open-ended API, support ISAPI, HIKVISION SDK and third-party management platform
Client	CMS-MZ
Web Browser	IE9+, chrome 31-44, Firefox 30-51, Safari 5.02+ (Mac)
General	
Menu language	English
Power	12 Vdc ± 20% PoE (802.3af, class 4)
Power Consumption	12 Vdc ± 20%, max 12 W PoE (802.3af, class 4)
Working Temperature/Humidity	-40 °C ÷ 60 °C (-40 °F ÷ 140 °F), ≤ 90%
Protection Level	IP66 Standard TVS 6000 V Lightning protection, surge protection, voltage transient protection
Dimensions	352.4 × 113.5 × 114.7 mm (13.9" × 4.5" × 4.5")
Weight	~1.5 kg (3.3 lb)



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Detection Range Table *(The table is only for reference, the performance may vary from camera to camera)*

Smart functions Range: Different targets trigger the VCA events within different range limits

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	T Measurement (Object: 2 × 2 m)	T Measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
63 m	21 m	66 m	33 m	180 m	90 m

Wide Range Coverage: There is range limit for detecting, recognizing, and identifying human/vehicle targets

Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
280 m	91 m	70 m	23 m	35 m	11 m



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