

CMIP3T22W1-2M

Platinum Thermal & Optical Network Turret Camera





The CMIP3T22W1-2M Thermal & Optical Network Turret Camera comes equipped with a built-in GPU which supports an intelligent behavior analysis algorithm. This camera provides precise VCA detections and real-time alarms. It excels in fireprevention applications in indoor spaces such as engine rooms, ATM vestibules, conference rooms, warehouses, museums, train stations, power stations, and many more similar settings. The pre-alarm system also helps users discover unexpected events immediately and prevents loss and damage to property.

Smart Function (Thermal Imaging)

- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 40 mK (25° C), F# = 1.1
- Powerful behavior analysis functionality, based on deep learning algorithms: Line crossing, intrusion, region entrance & exit
- Reliable temperature exception/anomaly alarm function
- Advanced fire detection algorithm
- Bi-spectrum image fusion, picture in picture preview

Thermal Imaging Module Function

- 160 × 120 resolution sensor (resolution output is 320 × 240), high sensitivity sensor; supports contrast adjustment
- Shutter adjustment in various modes
- 3D DNR, 15 palettes of adjustable color, and image detail enhancement















Specifications

Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Max. Resolution	160 × 120 (output resolution 320 × 240)				
Pixel Interval	17 μm				
Response Waveband	8 to 14 μm				
NETD	Less than 40 mK (25° C), F# = 1.1				
Lens (Focal Length)	1.8 mm				
MRAD	9.44 mrad				
Field of View	Hor: 90°, Vert: 66.4°				
Min. Focusing Distance	0.1 m				
Aperture	F1.1				
Optical Module					
Max. Image Resolution	1920 × 1080				
Image Sensor	1/2.7 in. Progressive Scan CMOS				
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC on), B & W: 0.0002 Lux @ (F1.2, AGC on)				
Shutter Speed	1 sec. to 1/100,000 sec.				
Lens (Focal Length)	2.1 mm				
Field of View	Hor: 101.2°, Vert: 77°(
WDR	120 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				
B' I B' I	Combins details of thermal and optical image PIP, overlay thermal image on optical				
Picture in Picture	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	-4° to 302° F (-20° to 150° C)				
Temperature Accuracy	± 14.4° F (± 8° C)				
Fire detection	Dynamic fire point detection, up to 10 fire points detectable.				
Infrared					
IR Distance	Up to 49 ft (15 m)				
IR Intensity and Angle	Automatically adjusted				
Network					
	Visible Light: 50 Hz: 25 fps (1920 × 1080), 25 fps (1280 × 960), 25 fps (1280 × 720)				
Main Stream	Visible Light: 60 Hz: 30 fps (1920 \times 1080), 30 fps (1280 \times 960), 30 fps (1280 \times 720)				
	Thermal: 25 fps (160 \times 120 (the resolution of output image is 320 \times 240))				















	Visible Light: 50 Hz: 25 fps (704 × 576), 25 fps (640 × 480)								
Sub Stream	Visible Light: 60 Hz: 30 fps (704 × 480), 30 fps (640 × 480)								
	Thermal: 25 fps (160 \times 120 (the resolution of output image is 320 \times 240))								
Video Compression	H.265 / H.264, H.265+ / H.264+ encoding with Baseline / Main / High Profile								
Audio Compression	G .711 u / G.711 a / G.722.1 / MP2L2 / G.726 / PCM								
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,								
	UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour								
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 802.1x								
security ivieasures	access control, IP address filtering								
Integration									
Alarm Input	1 ch input (0 - 5 VDC)								
Alarm Output	1 ch relay output, alarm response actions configurable								
Alarm Action	SD recording / Relay output / Smart capture / FTP upload / Email linkage								
Audio Input	3.5 mm Mic in/Line in interface; line input: 2 - 2.4 V [p-p], output imp: 1 K Ω ± 10%								
Audio Output	Linear Level; Impedance: 600Ω								
Reset	Button								
Ethernet	1 x RJ45 10M/100M Self-adaptive Ethernet interface, 1 x RS-485 interface								
CD Marrage Cand	Built-in Micro SD card slot, supports Micro SD / SDHC / SDXC cards (up to 256 GB),								
SD Memory Card	supports manual / alarm recording								
Analog Video Output	1.0 V [p-p] / 75 Ω, PAL / NTSC / BNC								
Application Programming	Open-ended API, support ISAPI, SDK and third-party management platform								
Web Browser	IE 9+, Chrome 31 - 44, Firefox 30 - 51, Safari 5.02+ (Mac)								
General									
Menu language	English								
Power	12 VDC ±20%, two-core terminal block								
	PoE (802.3 af, class 3)								
Power Consumption	12 VDC ±20%: 0.7 A, max. 8 W								
Tower consumption	PoE (802.3 af, class 3): 42.5 to 57 V, 0.14 to 0.22 A; max. 8.5 W								
Operating Temperature / Humidity	-22° to 140° F (-30° to 60° C), 95% or less								
Protection Level	IP67 Standard								
	TVS 6000V Lightning protection, surge protection, voltage transient protection								
Dimensions	$5.45 \times 5.45 \times 4.85$ in. (138.3 × 138.3 × 123.1 mm)								
	1.98 lbs (900 g)								













Detection Range Table

Note: This table is for reference only; performance may vary from camera to camera.

Smart functions Range

Each target triggers VCA events within unique range limits.

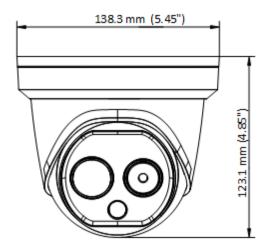
VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 2 × 2 m)	Temperature measurement (Object: 1 × 1 m)	Fire Detection (Object: 2 × 2 m)	Fire Detection (Object: 1 × 1 m)
42 m	14 m	44 m	22 m	108 m	54 m

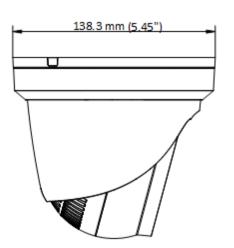
Wide Range Coverage

There is range limit for detecting, recognizing, and identifying human / vehicle targets.

Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles:	(Humans:	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans:
1.4 × 4.0m)	1.8 × 0.5m)	1.4 × 4.0m)	1.8 × 0.5m)	1.4 × 4.0m)	1.8 × 0.5m)
162 m	53 m	41 m	13 m	20 m	7 m

Dimensions





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