



# SN-TPT6436QF-M

Thermal & Optical Bi-spectrum Mini PTZ Camera



## Key Features

- VOx uncooled focal plane detector with 640x512 resolution
- NETD  $\leq$  40mK
- 25 mm motorized focus thermal lens, 30x optical zoom module
- Support humanoid/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 3 temperature measurement rule types (spot, line, area)
- Reliable temperature-anomaly alarm
- Temperature measurement range: -20°C ~ 150°C (-4°F ~ 302°F)
- NDAA Compliance, IP66

# Specification

Thermal Module	
Image Sensor	Uncooled VOx Focal Plane Arrays 640x512
Resolution	Sensor is 640x512. Image can be scaled up to 1280x1024
Pixel Pitch	12 um
NETD	≤ 40 mK
Spectral Range	8 ~ 14 um
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 Control	Motorized Focus
Focal Length	25 mm
Aperture	F1.0
Angle of View	H:17°, V:14°
Detection Distance (Fire: 1*1m)	1042 m
Detection Distance (Humans: 1.8*0.5m)	1040 m
Detection Distance (Vehicles: 4*1.5m)	3194 m
Recognition Distance (Humans: 1.8*0.5m)	260 m
Recognition Distance (Vehicles: 4*1.5m)	799 m
Optical Module	
Image Sensor	1/2.8" Sony CMOS
Effective Resolution	2592 (H)x1520 (V)
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 ~ 159 mm, 30x optical zoom
Max Aperture	F1.6 ~ F4.3
Angle of View	H:55° ~ 2.3°, H: 41.6° ~ 1.7°
Digital Zoom	16x
Focus Control	Auto/Manual/Semi-automatic
Mirror	Support
Defog	Support
Privacy Masking	Support
Illumination Distance	Up to 30m (98.4 ft, White)
PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +90° ~ -90°
Pan/Tilt Speed	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 10°/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	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	
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, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, 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	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
Power Consumption	Max 40 W
Working Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	323 x192.5 x177 mm (12.71 x 7.58 x 6.97 inch)
Net Weight	5 kg (11.0 lb)

## Dimensions (mm)

