



SN-TPT4233QF-M

Thermal & Optical Dual-Spectrum Mini PTZ Camera



Key Features

- VOx uncooled focal plane detector with 400x300 resolution
- NETD \leq 40mK
- 25 mm motorized focus thermal lens, 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, enter area, leave area
- Reliable temperature-anomaly alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 302^{\circ}\text{F}$)
- NDAA Compliance, IP66

Specification

Thermal Module	
Image Sensor	Uncooled VOx Focal Plane Arrays
Resolution	Sensor is 400x300. Image can be scaled up to 704x576
Pixel Pitch	17 um
Thermal Sensitivity (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 Mode	Motorized Focus
Focal Length	25 mm
Aperture	F1.0
Angle of View	H:15.4°, V:11.6°
Detection Distance (Fire: 1*1m)	735 m
Detection Distance (Humans: 1.8*0.5m)	735 m
Detection Distance (Vehicles: 4*1.5m)	2255 m
Recognition Distance (Humans: 1.8*0.5m)	184 m
Recognition Distance (Vehicles: 4*1.5m)	564 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
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: D1 @25/30fps Optical: 2592x1520, 1920x1080, 1280x720 @25/30fps
Sub Stream	Thermal: CIF @25/30fps Optical: D1, VGA, CIF @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: main stream:100Kbps~6Mbps, sub stream: 10Kbps~1.5Mbps Optical: main stream: 200Kbps~12Mbps, sub stream: 100Kbps~6Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Smart Function	
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 55 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 (12.7 x 7.58 x 6.97 inch)
Net Weight	5 kg (11.0 lb)

Dimensions (mm)

