



SN-TPT4233QF-F

Thermal & Optical Dual-Spectrum Mini PTZ Camera



Key Features

- VOx uncooled focal plane detector with 400x300 resolution
- NETD $\leq 40\text{mK}$
- 8/15/25 mm manual focus thermal lens optional, 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, people counting, 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		
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	Manual Focus		
Focal Length	8mm	15mm	25mm
Aperture	F1.0	F1.0	F1.0
Angle of View	H:46°, V:35.3°	H:25.5°, V:19.2°	H:15.4°, V:11.6°
Detection Distance (Fire: 1*1m)	235m	441m	735m
Detection Distance (Humans: 1.8*0.5m)	235m	441m	735m
Detection Distance (Vehicles: 4*1.5m)	722m	1353m	2255m
Recognition Distance (Humans: 1.8*0.5m)	59m	110m	184m
Recognition Distance (Vehicles: 4*1.5m)	180m	338m	564m
Optical Module			
Image Sensor	1/2.8" Sony CMOS		
Max. Resolution	2592 (H)×1520 (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: 2592×1520, 1920×1080, 1280×720 @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℃ / ±2%
Response Time	≤ 30ms
Temperature Range	-20℃ to 150℃ (-4°F to 302°F), -20℃ to 550℃ (-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 128GB
General	
Power Supply	DC24V
Power Consumption	Max 55 W
Working Temperature	-30℃ ~ 60℃ (-22°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	323 ×192.5 ×177 mm (12.7 × 7.58 × 6.97 inch)
Net Weight	5 kg (11.0 lb)

Dimensions (mm)

