



SN-TPT4233ZZ-M

Thermal & Optical Dual-Spectrum PTZ Camera



Key Features

- Uncooled VOx thermal sensor with 400×300 resolution
- Sensitivity $\leq 40\text{mK}$
- 75/100 mm motorized focus thermal lens, 37x optical zoom module
- Support human/vehicle detection and fire point detection
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area
- Support temperature monitoring and alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 302^{\circ}\text{F}$)
- Power off self-locking, strong wind resistance
- Anti-frozen, IP66

Specification

Thermal Camera	
Image Sensor	Uncooled VOx Focal Plane Arrays 400x300
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	
Lens Type	Fixed
Focus Control	Motorized Focus
Focal Length	75mm 100mm
F No.	F1.0 F1.0
Angle of View	H: 5.1°, V:3.8° H: 3.8°, V:2.3°
Detection Distance (Fire: 1*1m)	2206m 2941m
Detection Distance (Humans: 1.8*0.5m)	2206m 2941m
Detection Distance (Vehicles: 4*1.5m)	6765m 9020m
Recognition Distance (Humans: 1.8*0.5m)	551m 735m
Recognition Distance (Vehicles: 4*1.5m)	1691m 2255m
Optical Camera	
Image Sensor	1/2" Sony CMOS
Effective Resolution	1920 (H)x1080 (V)
Shutter Speed	1/5 ~ 1/20,000s
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.1 Lux
S/N Ratio	More than 55 dB
Focal Length	6~ 222mm
Max Aperture	F1.5 ~ F4.3
Angle of View	H: 58.4° ~ 2.1°
Optical Zoom	37x
Focus Control	Auto/Manual/Semi-automatic
Mirror	Support
Defog	Support
Privacy Masking	Support
PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +40° ~ -75°
Pan/Tilt Speed	Pan: 0.01° ~ 60°/s, Tilt: 0.01° ~ 30°/s
Wiper	Support
Preset Accuracy	± 0.2°
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	Activate Preset/ Scan/Tour/Pattern if there is no command in the specified period

Video and Audio	
Main Stream	Thermal: 704x576 @25/30fps Optical: 1920x1080, 1280x720 @25/30fps
Sub Stream	Thermal: CIF @25/30fps Optical: D1, VGA, 640x360, CIF, QCIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: 100Kbps~6Mbps Optical: main stream: 100Kbps~12Mbps, sub stream: 10Kbps~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, Temperature detection and alarm
Smart Detection	Support human/vehicle detection and fire point 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 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, 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	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	2ch Audio In,2ch Audio Out
Alarm Interface	9ch Alarm In,4ch Alarm Out
RS485	Support
CVBS Output	Support
Reset Button	Support(Built-in)
SD Card Slot	Built-in, up to 256GB
General	
Power Supply	DC36V
Power Consumption	Max 100 W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	294 x420 x516 mm (11.57 x 16.54 x 20.31 inch)
Net Weight	25 kg (55.12 lb)

Dimensions (mm)

