SN-TPT4233HZ-M

Thermal & Optical Bi-spectrum Heavy Duty PTZ Camera

Key Features

- VOx uncooled focal plane detector with 400×300 resolution

- NETD ≤ 40mK

- 75/100 mm motorized focus thermal lens optional

- 32x/60x optical zoom visible lens optional

- Support human/vehicle detection and fire point detection

- Smart events: 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)

- Temperature measurement range: -20°C ~ 150°C (-4°F ~ 302°F)

- Power off self-locking, strong wind resistance

- NDAA Compliance, Anti-frozen, IP66

Specification

Thermal Module

Image Sensor	Uncooled VOx Focal Plane Arrays
Resolution	Sensor is 400×300. Image can be scaled up to 704×576
Pixel Pitch	17μm
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	75 mm	100mm
Aperture	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 (Human: 1.8*0.5m)	2206m	2941m
Detection Distance (Vehicle: 4*1.5m)	6765m	9020m
Recognition Distance (Human: 1.8*0.5m)	551m	735m
Recognition Distance (Vehicle: 4*1.5m)	1691m	2255m

Optical Module

Image Sensor	1/2.8" CMOS
Max. Resolution	2592 (H)×1520 (V), 4MP
Shutter Speed	1/5 ~ 1/20,000s
Min. Illumination	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.003 Lux
WDR	True WDR
Focal Length	12.5 ~ 400mm (15.6 ~ 500mm, 12.5 ~ 750mm, 16.7 ~ 1000mm optional)
Aperture	F3.1 ~ F16
Angle of View	H: 33° ~ 1.7°
Optical Zoom	32x (32x, 60x, 60x optional)
Focus Control	Auto/Manual
Mirror	Support
Defog	Support, and optical defog
Privacy Masking	Support

PTZ

Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +45° ~ -45°
Pan/Tilt Speed	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 15°/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: 704×576 @ 25/30fps Optical: 2592×1520, 1920×1080, 1280×720 @25/30fps
Sub Stream	Thermal: CIF @ 25/30fps Optical: D1, VGA, 640×360, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: Main stream: 100Kbps~6Mbps Sub stream: 100Kbps~1.5Mbps Optical: Main stream: 200Kbps~12Mbps, Sub stream: 100Kbps~6Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Audio Compression	G711: 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 and fire point detection, (ship detection optional)
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles), 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°C to 150°C (-4°F to 302°F), -20℃ to 550℃ (-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	3ch Alarm In,3ch Alarm Out
RS485	Support
BNC Output	Support
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 256GB

General

Power Supply	DC36V
Power Consumption	Max 150 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	730 × 443 × 636mm (28.74×17.44×25.04 inch)
Net Weight	≤ 48Kg (105.8 lb)

Dimensions (mm)