



# SN-TPT4231HZ-M (III)

Thermal & Visible Bispectral Heavy Duty PT Camera



## Key Features

- Uncooled VOx Micro bolometer with 400x300 resolution
- Sensitivity  $\leq 40\text{mK}$
- Support temperature monitoring and alarm
- 75/100mm motorized thermal lens optional
- 32x/37x/60x optical zoom visible lens optional
- Support 3 temperature measurement rule types (spot, line, area)
- 17 color control
- DVE image enhance
- Power off self-locking, strong wind resistance
- Anti-frozen

# Specification

Thermal Camera	
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	
Lens Type	Fixed
Focus Control	Motorized Focus
Focal Length	75mm                      100mm
F No.	F1.0                              F1.0
Angle of View	H: 8.2°, V:6.6°                      H: 6.2°, V:4.9°
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
Visible Camera	
Image Sensor	1/1.9" 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: 0.0001 Lux
S/N Ratio	More than 55 dB
Focal Length	12.5~400mm (15.6~500mm, 20~750mm, 12.5~750mm, 16.7~1000mm optional)
Max Aperture	F2.5 ~ F16
Angle of View	H: 33° ~ 1.7°
Optical Zoom	32x (32x, 37x, 60x optional)
Focus Control	Auto/Manual
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	± 0.1°
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	Activate Preset/ Scan/Tour/Pattern if there is no command in the specified period

Video and Audio	
Main Stream	Thermal: 704x576 @25/30fps Visible: 1920x1080, 1280x720 @25/30fps
Sub Stream	Thermal: CIF @25/30fps Visible: D1, VGA, 640x360, CIF, QCIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: 100Kbps~6Mbps Visible: main stream: 500Kbps~12Mbps; sub stream: 100Kbps~6Kbps
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
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Object left, Object removed
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 ~ 150°C (-4°F ~ 302°F)
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 128GB
General	
Power Supply	DC36V
Power Consumption	Max 150W
Working Temperature	-40°C~60°C (-40°F~140°F)
Storage Conditions	0~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	443x730x636mm (17.44x28.74x25.04 inch)
Net Weight	48 Kg (105.82 lb)

## Dimensions (mm)

