

# SN-TPT6436HZ-Z

Thermal & Optical Bi-spectrum Heavy Duty PTZ Camera



## Key Features

- VOx uncooled focal plane detector with 640x512 resolution
- NETD  $\leq$  40mK
- 30~150 mm motorized thermal lens, 86x optical zoom module
- 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
- Anti-frozen, IP66

# Specification

Thermal Module	
Image Sensor	Uncooled VOx Focal Plane Arrays
Resolution	Sensor is 640x512. Image can be scaled up to 1280x1024
Pixel Pitch	12µm
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	30 ~ 150mm
Aperture	F1.2
Angle of View	H: 14.5°~ 2.9°, V: 11.6°~ 2.3°
Detection Distance (Fire: 1*1m)	Max. 6,250 m
Detection Distance (Human: 1.8*0.5m)	Max. 6,242 m
Detection Distance (Vehicle: 4*1.5m)	Max. 19,167 m
Recognition Distance (Fire: 1*1m)	Max. 2,083 m
Recognition Distance (Human: 1.8*0.5m)	Max. 1,560 m
Recognition Distance (Vehicle: 4*1.5m)	Max. 4,792 m
Optical Module	
Image Sensor	1/1.8" CMOS
Max. Resolution	2560 (H)x1440 (V), 4MP
Shutter Speed	1/5 ~ 1/20,000s
Min. Illumination	Color: 0.0005 Lux @ (F2.1, AGC ON), BW: 0.0001 Lux
WDR	True WDR
Focal Length	10 ~ 860mm, 86x optical zoom
Aperture	F2.1
Angle of View	H: 38.4° ~ 0.48°
Digital Zoom	16x
Focus Control	Auto/Manual
Mirror	Support
Defog	Support
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: 1280x1024, 1280x720, 640x512 @ 25/30fps Optical: 2560x1440, 1920x1080, 1280x720 @25/30fps
Sub Stream	Thermal: D1, CIF @ 25/30fps Optical: D1, VGA, 640x360, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: Main stream: 100Kbps~8Mbps Sub stream: 100Kbps~6Mbps Optical: Main stream: 32Kbps~16Mbps, Sub stream: 32Kbps~8Mbps
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°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	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 x 443 x 636mm (28.74x17.44x25.04 inch)
Net Weight	≤ 48Kg (105.8 lb)

## Dimensions (mm)

