



SN-TPT4233LZ-F

Bi-spectral PTZ Network Camera



Key Features

- VOx uncooled focal plane detector with 400x300 resolution
- 8/15/25/35/50 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: -20°C ~ 150°C (-4°F ~ 302°F)
- 1 RJ45 port with 2 IP addresses
- 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 400x300. Image can be scaled up to 704x576
Pixel Pitch	17 um
Thermal Sensitivity (NETD)	≤ 40mK
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	8 mm	15 mm	25 mm	35 mm	50 mm
Aperture	F1.0	F1.0	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°	H: 11°, V:9°	H: 7.7°, V:5.8°
Detection Distance (Fire: 1*1m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Humans: 1.8*0.5m)	235 m	441 m	735 m	1029 m	1471 m
Detection Distance (Vehicles: 4*1.5m)	722 m	1353 m	2255 m	3137 m	4510 m
Recognition Distance (Humans: 1.8*0.5m)	59 m	110 m	184 m	257 m	368 m
Recognition Distance (Vehicles: 4*1.5m)	180 m	338 m	564 m	789 m	1127 m

Optical Module	
Image Sensor	1/2.8" Sony CMOS
Max. Resolution	2592 (H)x1520 (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

PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +90° ~ -90°
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	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: 2592x1520, 1920x1080, 1280x720 @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)
Audio Compression	G.711 (8kbps), RAW_PCM (16kbps)

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°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, SIP ,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 Interface	1ch output
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 256GB

General	
Power Supply	DC36V
Power Consumption	Max 80 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	282x419x316mm (11.1 x 16.5 x 12.44 inch)
Net Weight	16.5Kg (Contains 25 mm lens) (36.8 lb)

Dimensions (mm)

