



SN-TPT4231LZ/F (III)

Bispectral PTZ Network Camera



Key Features

- Uncooled Microbolometer sensor with 400×300 resolution
- NETD Sensitivity $\leq 40\text{mK}$
- 8/15/25/35/50 mm manual focus thermal lens optional
- Support 3 temperature measurement rule types (spot, areas, line)
- Reliable temperature-anomaly alarm
- Temperature measurement range: $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 302^{\circ}\text{F}$)
- 17 color palettes
- 1 RJ45 port with 2 IP addresses
- Power off self-locking, strong wind resistance
- Anti-frozen, IP66

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	Manual Focus				
Focal Length	8 mm	15 mm	25 mm	35 mm	50 mm
F No.	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 Camera					
Image Sensor	1/2.8" Sony CMOS				
Max. Resolution	2592 (H)×1520 (V)				
Shutter Speed	1/5 ~ 1/20,000s				
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), B/W: 0.001 Lux				
S/N Ratio	More than 55 dB				
Focal Length	5.3 ~ 159mm				
Max Aperture	F1.6 ~ F4.3				
Angle of View	H: 55° ~ 2.3°, V: 41.6° ~ 1.7°				
Optical Zoom	30x				
Focus Control	Auto/Manual				
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				
Preset Speed	Pan: 0.01° ~ 60°/s, Tilt: 0.01° ~ 30°/s				
Presets	400				
PTZ Mode	8 Auto Scan, 12 Tour, 6 Track				
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	Visible: 2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30fps Thermal: 704x576 @25/30fps
Sub Stream	Visible: D1, VGA, 640x360, CIF, QCIF, QVGA @25/30fps Thermal: CIF @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Visible: Main stream: 100Kbps~16Mbps, Sub stream: 10Kbps~6Kbps Thermal: Main stream: 100Kbps~6Mbps, Sub stream: 10Kbps~1.5Mbps
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, 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	9ch Alarm In,4ch Alarm Out
RS485	Support
CVBS Output	Support
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 128GB
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)

