



SN-TPT4231QF-F (III)

Bispectral Mini PTZ Network Camera



Key Features

- Uncooled VOx Micro bolometer with 400×300 resolution
- Sensitivity $\leq 40\text{mK}$
- 8/15/25 mm manual focus thermal lens optional
- Support 3 temperature measurement rule types (spot, line, area)
- 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
- 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	Manual Focus		
Focal Length	8mm	15mm	25mm
F No.	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°
Detection Distance (Fire: 1*1m)	235m	441m	735m
Detection Distance (Humans: 1.8*0.5m)	235m	441m	735m
Detection Distance (Vehicles: 4*1.5m)	722m	1353m	2255m
Recognition Distance (Humans: 1.8*0.5m)	59m	110m	184m
Recognition Distance (Vehicles: 4*1.5m)	180m	338m	564m
Visible Camera			
Image Sensor	1/2.8" Sony CMOS		
Effective Resolution	2048 (H)x1536 (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	4.5 ~ 135 mm		
Max Aperture	F1.6 ~ F4.4		
Angle of View	H:59.8° ~ 2.3°		
Optical Zoom	30x		
Focus Control	Auto/Manual		
Illumination Distance	Up to 30m (98.4 ft, White)		
PTZ			
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: +90° ~ -90°		
Pan/Tilt Speed	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 10°/s		
Preset Speed	Pan: 0.01° ~ 30°/s, Tilt: 0.01° ~ 10°/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: 2048x1536 @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: 500Kbps~12Mbps, Sub stream: 100Kbps~6Kbps Thermal: Main stream: 100Kbps~6Mbps Sub stream: 10Kbps~1.5Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
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	2 Ethernet (10/100 Base-T) RJ-45 Connector
Alarm Interface	1ch Alarm Out
RS485	Support
CVBS Output	Support
Reset Button	Support (Built-in)
SD Card Slot	Built-in, up to 128GB
General	
Power Supply	DC24V
Power Consumption	Max 40 W
Working Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Conditions	0 ~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	323 x192.5 x177 mm (12.7 x 7.58 x 6.97 inch)
Net Weight	5 kg (11.0 lb)

Dimensions (mm)

