



SN-TPT4233QF-F

Thermal & Optical Dual-Spectrum Mini PTZ Camera



Key Features

- VOx uncooled focal plane detector with 400x300 resolution
- NETD \leq 40mK
- 8/15/25 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 range: $-20^{\circ}\text{C} \sim 150^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 302^{\circ}\text{F}$)
- NDAA Compliance, 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 | | |
| 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 Mode | Manual Focus | | |
| Focal Length | 8mm | 15mm | 25mm |
| Aperture | 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 |
| 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 | | |
| 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 | | |
| 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) |
| 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, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, 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 |
| Audio Interface | 1ch input, 1ch output |
| Alarm Interface | 1ch output |
| RS485 | Support |
| CVBS Interface | 1ch output |
| Reset Button | Support (Built-in) |
| SD Card Slot | Built-in, up to 128GB |
| General | |
| Power Supply | DC24V |
| Power Consumption | Max 55 W |
| Working Temperature | -30°C ~ 60°C (-22°F ~ 140°F) |
| Storage Conditions | 0 ~ 90% RH |
| Certifications | CE /FCC |
| Ingress Protection | IP66 |
| Casing | Metal |
| Dimensions | 323 ×192.5 ×177 mm (12.7 × 7.58 × 6.97 inch) |
| Net Weight | 5 kg (11.0 lb) |

Dimensions (mm)

