



SN-TPS6457ET-M

Thermal & Optical Bi-spectrum Network Speed Dome



Key Features

- 640 × 512 (the resolution of output image is 1920 × 1080) resolution
- 12μm, VOx UFPA, NETD ≤ 40mK
- 25mm motorized thermal lens, 40x optical zoom lens
- Support human/vehicle detection and ship detection
- Support fire point detection, smoking detection and smoke & fire detection
- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area
- Smart tracking: Cold-Hot spot tracking, human/vehicle detection
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature range: -20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F)
- IP66

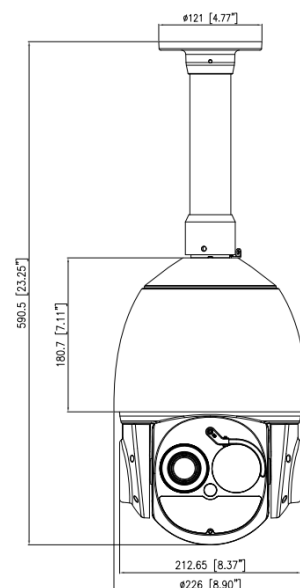
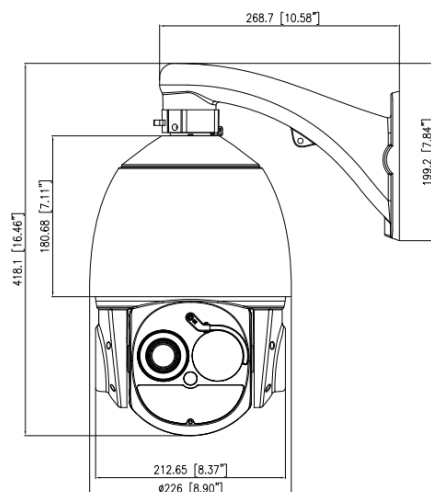
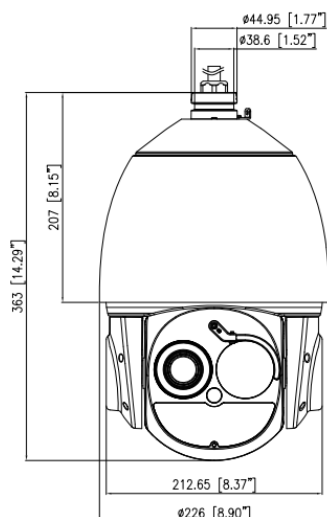
Specification

| Thermal Module | |
|---|--|
| Image Sensor | Uncooled VOx Focal Plane Arrays |
| Resolution | Sensor is 640×512. Image can be scaled up to 1920×1080 |
| Pixel Pitch | 12μm |
| NETD | ≤ 40mK |
| Spectral Range | 8 to 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 | 25 mm |
| Aperture | F1.0 |
| Angle of View | H: 17°, V: 14° |
| Detection Distance (Fire: 1×1m) | 1,042m (3,418.6ft) |
| Detection Distance (Human: 1.8×0.5m) | 1,040m (3,412.0ft) |
| Detection Distance (Vehicle: 4×1.5m) | 3,194m (10,479.0ft) |
| Recognition Distance (Human: 1.8×0.5m) | 260m (853.0ft) |
| Recognition Distance (Vehicle: 4×1.5m) | 799m (2,621.3ft) |
| Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. *Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors. | |
| Optical Module | |
| Image Sensor | 1/1.8" Sony CMOS |
| Max. Resolution | 2688 (H) ×1520 (V), 4MP |
| Shutter Speed | 1/5 to 1/20,000s |
| Min. Illumination | Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux (F1.5, AGC ON), 0 Lux with IR |
| WDR | True WDR |
| Focal Length | 6.27 to 251mm, 40x optical zoom |
| Aperture | F1.5 to F4.8 |
| Angle of View | H: 60.7° to 2.33°, V: 36.8° to 1.38° |
| Digital Zoom | 16x |
| Focus Control | Auto/Manual |
| Mirror | Support |

| | |
|----------------------------------|--|
| Defog | Support |
| Anti-shake | Support Gyroscope |
| Privacy Masking | Support |
| PTZ | |
| Pan/Tilt Range | Pan: 0° to 360° endless, Tilt: -10° to +90° |
| Pan Speed | Pan: 0.01° to 300°/s, preset speed: 300°/s |
| Tilt Speed | Tilt: 0.01° to 240°/s, preset speed: 240°/s |
| Wiper | Support |
| Preset Accuracy | ≤ 0.2° |
| Presets | 400 |
| Scan | 12 scans |
| Patrol | 12 patrols, up to 32 presets per patrol |
| Track | 6 tracks |
| 3D Positioning | Support |
| Speed Setup | Auto/Manual (0-8) |
| Power Off Memory | Support |
| Idle Motion | The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run. |
| Illuminator | |
| Illuminator Type | IR |
| Illumination Distance | Up to 300m (984.25ft) |
| Illumination Intensity And Angle | Automatically adjusted |
| Video and Audio | |
| Main Stream | Thermal: 1920×1080, 1280×1024, 1280×1720, 640×512 @25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps |
| Sub Stream | Thermal: D1, VGA, 640×512, CIF @25/30fps Optical: D1, VGA @25/30fps |
| Bit Rate Control | CBR/VBR |
| Bit Rate | Thermal: Main stream: 100Kbps to 12Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps |
| Region of Interest | Off/On (8 Zone, Rectangle) |
| Audio Compression | G711: 64kbps, RAW_PCM: 128kbps |
| Smart Function | |
| Smart Alarm | Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm |
| Smart Detection | Support human/vehicle detection, ship detection, fire point detection, smoking detection and smoke & fire detection |
| 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 | Support |

| 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℃ / ±2% |
| Response Time | ≤ 30ms |
| Temperature Range | -20℃ to 150℃ (-4°F to 302°F) or 0℃ to 550℃ (32°F to 1022°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 | 1ch Audio In, 1ch Audio Out |
| Alarm Interface | 7ch Alarm In, 2ch Alarm Out |
| RS485 | Support |
| BNC Output | Support |
| SD Card Slot | Built-in, up to 256GB |
| General | |
| Power Supply | 24VDC/36VDC/PoE++ (IEEE 802.3bt) |
| Power Consumption | Max 45 W |
| Working Temperature | -40℃ to 60℃ (-40°F to 140°F) |
| Storage Conditions | 0 to 90% RH |
| Certifications | CE /FCC |
| Ingress Protection | IP66 |
| Casing | Metal |
| Dimensions | φ 226 × 363mm (φ 8.9 × 14.29 inch) |
| Net Weight | 6kg (13.2lb) |
| Ordering Information | |
| Model | Description |
| SN-TPS6457ET-M25-ZSD40 | Thermal Focal Length: 25mm Optical Focal Length: 6.27 to 251mm |

Dimensions (mm)



Accessories

Optional:



SN-BK349
Wall Bracket



SN-BK348A
Ceiling Bracket



SN-BK605
Corner Mount



SN-BK604B
Pole Mount



SN-BK367
Junction Box



SN-BK355
Wall Bracket



SN-BK358
Corner Mount



SN-BK359
Pole Mount