



SN-TPC6457DLT-F

Thermal & Optical Bi-spectrum Network Bullet Camera



Key Features

- Uncooled VOx Micro bolometer with 640×512 resolution
- Thermal: 9/15/25/35/50mm manual lens, optical: 4/6/10 to 30mm lens optional
- Support human, vehicle and fire point detection
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature monitoring and exception alarm, -20°C to 150°C (-4°F to 302°F)
- Smart linkage of white light and audio
- Support 12VDC/24VAC/PoE+ power supply
- Smart IR distance up to 100m
- IP66

Specification

| Thermal Camera | | | | | |
|---|--|----------------------|----------------------|----------------------|----------------------|
| Image Sensor | Vanadium Oxide Uncooled Focal Plane Arrays | | | | |
| Resolution | Sensor is 640×512, Image can be scaled up to 1280×1024 | | | | |
| Pixel Pitch | 12μm | | | | |
| Spectral Range | 8 to 14μm | | | | |
| Thermal Sensitivity (NETD) | ≤ 40mK | | | | |
| Lens Type | Fixed focal length, F1.0 | | | | |
| Focus Control | Free focus | | | | |
| Focal Length | 9mm | 15mm | 25mm | 35mm | 50mm |
| Angle of View | H: 48°, V: 38° | H: 32°, V: 26° | H: 17°, V: 14° | H: 12°, V: 10° | H: 8°, V: 7° |
| Min. Focusing Distance | 1.73m | 3.79m | 13m | 25.49m | 52.3m |
| Detection Distance (Humans: 1.8×0.5m) | 375 m (1230.3 ft) | 624 m (2,047.2 ft) | 1,040 m (3,412.1 ft) | 1,456 m (4,776.9 ft) | 2,081 m (6,827.4 ft) |
| Detection Distance (Vehicles: 4×1.5m) | 1,150 m (3,773 ft) | 1,917 m (6,289.3 ft) | 3,194 m (10,479 ft) | 4,472 m (14,672 ft) | 6,389 m (20,961 ft) |
| Recognition Distance (Humans: 1.8×0.5m) | 94 m (308.4 ft) | 156 m (511.8 ft) | 260 m (853 ft) | 364 m (1,194.2 ft) | 520 m (1,706 ft) |
| Recognition Distance (Vehicles: 4×1.5m) | 288 m (944.9 ft) | 479 m (1,571.5 ft) | 799 m (2,621.4 ft) | 1,118 m (3,668 ft) | 1,597 m (5,239.5 ft) |
| Identification Distance (Humans: 1.8×0.5m) | 47 m (154.2 ft) | 78 m (255.9 ft) | 130 m (426.5 ft) | 182 m (597.1 ft) | 260 m (853 ft) |
| Identification Range (Vehicles: 4×1.5m) | 144 m (472.4 ft) | 240 m (787.4 ft) | 399 m (1,309 ft) | 559 m (1,834 ft) | 799 m (2,621.4 ft) |
| * The table is only for reference and the performance may vary according to different environment. | | | | | |
| * The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria. | | | | | |
| Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels. | | | | | |
| Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels. | | | | | |
| Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels. | | | | | |
| Detection Range Table | | | | | |
| VCA Detection Distance (Human: 1.8×0.5m) | 47 m (154.2 ft) | 84 m (275.6 ft) | 145 m (475.7 ft) | 188 m (616.8 ft) | 280 m (918.6 ft) |
| VCA Detection Distance (Vehicle: 4×1.5m) | 110 m (360.9 ft) | 190 m (623.4 ft) | 280 m (918.6 ft) | 380 m (1,246.7 ft) | 450 m (1,476.4 ft) |
| Temperature Measurement (Object: 1 × 1m) | 150 m (492.1 ft) | 250 m (820.2 ft) | 417 m (1,368.1 ft) | 583 m (1,912.7 ft) | 833 m (2,732.9 ft) |
| Temperature Measurement (Object: 0.2 × 0.2m) | 30 m (94.4 ft) | 50 m (164 ft) | 83 m (272.3 ft) | 117 m (383.9 ft) | 167 m (547.9 ft) |
| Fire Detection (Object: 1 × 1m) | 375 m (1,230.3 ft) | 625 m (2,050.5 ft) | 1,042 m (3,418.6 ft) | 1,458 m (4,783.5 ft) | 2,083 m (6,834 ft) |
| Fire Detection (Object: 0.2 × 0.2m) | 75 m (246.1 ft) | 125 m (410.1 ft) | 208 m (682.4 ft) | 292 m (958 ft) | 417 m (1,368.1 ft) |
| Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more. | | | | | |
| Visible Camera | | | | | |
| Image Sensor | 1/1.8" CMOS | | | | |
| Effective Resolution | 2688(H)×1520(V) | | | | |
| Shutter Speed | 1/5 ~ 1/20,000s | | | | |

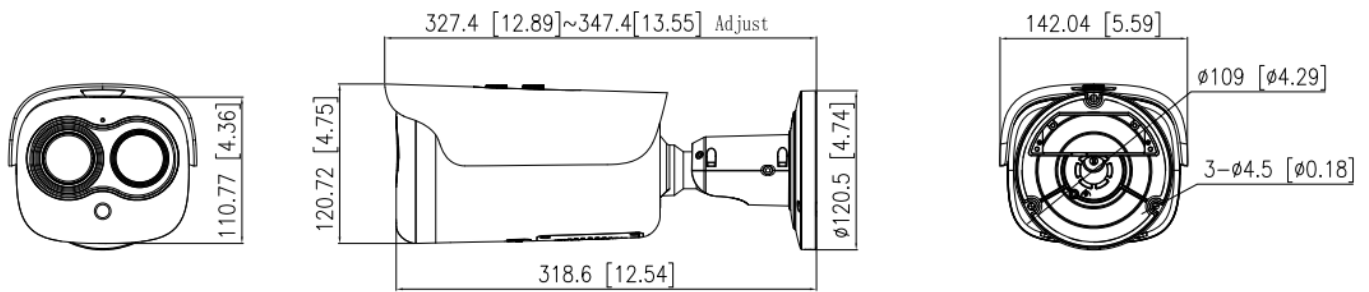
| | | | | | |
|--------------------------------|--|------------------------|-------------------------|-------------------------|-------------------------|
| Wide Dynamic Range | True WDR 120dB | | | | |
| Min. Illumination | Color: 0.005Lux, B/W: 0.0001Lux, 0Lux with IR ON | | | | |
| S/N Ratio | More than 60dB | | | | |
| White Balance | Auto/Manual | | | | |
| Day & Night Mode | IR Cut Filter with Auto Switch | | | | |
| Focal Length | 4mm, F1.6 | 6mm, F1.6 | 10 to 30mm, F1.6 | 10 to 30mm, F1.6 | 10 to 30mm, F1.6 |
| Angle of View | H: 87°, V: 47° | H: 55°, V: 30° | H: 37°, V: 21° | H: 15.5°, V: 11.6° | H: 15.5°, V: 11.6° |
| Illuminator | | | | | |
| IR Distance | Up to 70m (229.6ft) | Up to 80m (262.5ft) | Up to 100m (328.0ft) | Up to 100m (328.0ft) | Up to 100m (328.0ft) |
| White Light | Strobe light | | | | |
| Video and Audio | | | | | |
| Main Stream | Thermal: 1280×1024, 1280×1720, 640×512 @25/30fps Optical: 2688×1520, 1920×1080, 1280×720 @25/30fps | | | | |
| Sub Stream | Thermal: D1, CIF @25/30fps Optical: D1, 640×360, CIF @25/30fps | | | | |
| Bit Rate Control | CBR/VBR | | | | |
| Bit Rate | Main Stream: Thermal: 100Kbps to 8Mbps, Optical: 200Kbps to 12Mbps Sub Stream: Thermal: 100Kbps to 6Mbps, Optical: 100Kbps to 6Mbps | | | | |
| Region of Interest | Off/On (8 Zone, Rectangle) | | | | |
| Smart Encode | Support | | | | |
| Audio Compression | G.711: 64Kbps, RAW_PCM: 128Kbps | | | | |
| Image | | | | | |
| Image Setting | Brightness, Sharpness, Contrast, Saturation | | | | |
| Mirror | Support | | | | |
| Pseudo-color Setting | White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes (Thermal) | | | | |
| DVE Image Enhance | Support (Thermal) | | | | |
| Noise Reduction | 2D/3D DNR | | | | |
| Defog | Support | | | | |
| Image Stabilization | DIS | | | | |
| Privacy Masking | Support | | | | |
| Motion Detection | Support | | | | |
| Bi-Spectrum Image Fusion | Support | | | | |
| Smart Function | | | | | |
| Smart Function | Temperature measurement, human detection and vehicle detection | | | | |
| Advanced Intelligence Analysis | Smoker detection, Smoke and Flame detection, fire point 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 | | | | |
| Sound-light Alarm | Support white light flashing and horn warning | | | | |
| Temperature Measurement | 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) |
| Network | |
| Protocols | IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x |
| Interoperability | ONVIF |
| Max. User Access | 10 Users |
| Web Viewer | <IE11, Chrome, Firefox, Microsoft Edge |
| Web Language | English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English |
| Interface | |
| Network Interface | 1 Ethernet (10/100 Base-T) RJ-45 Connector |
| Audio Interface | 1ch input, 1ch output |
| Built-in Microphone | Support |
| Built-in Speaker | Support, Alarm sound transmission distance of 150m (492.13ft) (in a wooded environment) |
| Alarm Interface | 2ch input, 2ch output |
| Analog Output | Support (Thermal imaging or optical switchable) |
| RS-485 | Support |
| SD Card Slot | Support, up to 256GB |
| Reset Button | Support |
| Electrical | |
| Power Supply | 12DCV/24VAC/POE+ (IEEE 802.3at) |
| Power Consumption | Max. 25W |
| Working Temperature | -40°C to 60°C (-40°F to 140°F) |
| Storage Conditions | Less than 90% RH |
| Certifications | CE /FCC |
| Ingress Protection | IP66 |
| Casing | Metal |
| Dimensions | (327.4 to 347.4) × 140.04 × 120.72mm, (12.89 to 13.55) × 5.59 × 4.75 inch) |
| Net Weight | 2.0Kg (4.41lb) with 50mm lens |
| Ordering Information | |
| Model | Description |
| SN-TPC6457DLT-F9 | Thermal Focal Length: 9mm, Optical Focal Length: 4mm |
| SN-TPC6457DLT-F15 | Thermal Focal Length: 15mm, Optical Focal Length: 6mm |
| SN-TPC6457DLT-F25 | Thermal Focal Length: 25mm, Optical Focal Length: 10 to 30mm |
| SN-TPC6457DLT-F35 | Thermal Focal Length: 35mm, Optical Focal Length: 10 to 30mm |

SN-TPC6457DLT-F50

Thermal Focal Length: 50mm, Optical Focal Length: 10 to 30mm

Dimensions (mm)



Accessories

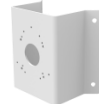
Optional:



SN-CBK645G
Junction Box



SN-CBK101A
Pole Mount



SN-CBK102A
Corner Mount