

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 Un	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	Sensor is 640×512, I	Sensor is 640×512, Image can be scaled up to 1280×1024			
Pixel Pitch	12µm	12μm			
Spectral Range	8 to 14µm	8 to 14μm			
Thermal Sensitivity (NETD)	≤ 40mK	≤ 40mK			
Lens Type	Fixed focal length, F	Fixed focal length, F1.0			
Focus Control	Free focus	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.

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.

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)
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)
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)
30 m (94.4 ft)	50 m (164 ft)	83 m (272.3 ft)	117 m (383.9 ft)	167 m (547.9 ft)
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)
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)
	110 m (360.9 ft) 150 m (492.1 ft) 30 m (94.4 ft) 375 m (1,230.3 ft) 75 m (246.1 ft)	110 m (360.9 ft) 190 m (623.4 ft) 150 m (492.1 ft) 250 m (820.2 ft) 30 m (94.4 ft) 50 m (164 ft) 375 m (1,230.3 ft) 625 m (2,050.5 ft) 75 m (246.1 ft) 125 m (410.1 ft)	110 m (360.9 ft) 190 m (623.4 ft) 280 m (918.6 ft) 150 m (492.1 ft) 250 m (820.2 ft) 417 m (1,368.1 ft) 30 m (94.4 ft) 50 m (164 ft) 83 m (272.3 ft) 375 m (1,230.3 ft) 625 m (2,050.5 ft) 1,042 m (3,418.6 ft) 75 m (246.1 ft) 125 m (410.1 ft) 208 m (682.4 ft)	110 m (360.9 ft) 190 m (623.4 ft) 280 m (918.6 ft) 380 m (1,246.7 ft) 150 m (492.1 ft) 250 m (820.2 ft) 417 m (1,368.1 ft) 583 m (1,912.7 ft) 30 m (94.4 ft) 50 m (164 ft) 83 m (272.3 ft) 117 m (383.9 ft) 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)

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	

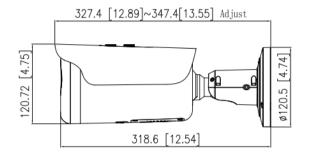
^{*} The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

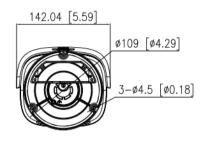
Wide Dynamic Range	True WDR 120dB				
Min. Illumination	Color: 0.005Lux, B	Color: 0.005Lux, B/W: 0.0001Lux, 0Lux with IR ON			
S/N Ratio	More than 60dB				
White Balance	Auto/Manual	Auto/Manual			
Day & Night Mode	IR Cut Filter with A	IR Cut Filter with Auto Switch			
Focal Length	4mm, F1.6	6mm, F1.6	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		024, 1280×1720, 640×			
Sub Stream	Thermal: D1, CIF (Optical: 2688×1520, 1920×1080, 1280×720 @25/30fps 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	Support			
Audio Compression	G.711: 64Kbps, RA	G.711: 64Kbps, RAW_PCM: 128Kbps			
Image					
Image Setting	Brightness, Sharpi	ness, Contrast, Saturat	ion		
Mirror	Support	Support			
Pseudo-color Setting	White-hot/Black-h	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes (Thermal)			
DVE Image Enhance	Support (Thermal)	Support (Thermal)			
Noise Reduction	2D/3D DNR	2D/3D DNR			
Defog	Support	Support			
Image Stabilization	DIS	DIS			
Privacy Masking	Support	Support			
Motion Detection	Support	Support			
Bi-Spectrum Image Fusion	Support	Support			
Smart Function					
Smart Function	Temperature mea	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 ligh	Support white light flashing and horn warning			
Temperature Measurement	3 temperature me	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).			
Temperature Alarm	Overtemperature	alarm, Temperature	J:66		

Response Time \$30ms Temperature Range 2-20°C to 150°C (4°F to 302°F) Network Protocols P-4A/Pu6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPDG, SMTP, 802.1x Interoperability ONVIF Max. User Access 10 Users Web Viewer dist1, Chrome, Firefox, Microsoft Edge Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Interface Network Interface Ethernet (10/100 Base-TIR)-45 Connector Audio Interface 2 Etherne	Accuracy	±2°C / ±2%
Temperature Range -20°C to 150°C (-4" ft os 302" ft) Network Protocols IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x Interoparability ONVIE Max. User Access 10 Users Web Viewer <i 1,="" chrome,="" edge<="" firefox,="" microsoft="" td="" till=""> Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Interface 1 Ethernet (10/100 Base-17 BJ-45 Connector Audio Interface 1 ch Input, 1ch output Bulls in Microphone Support Bulls in Microphone Support Bulls in Speaker Support, Alarm sound transmission distance of 150m (492.13ft) (in a wooded environment) Alarm interface 2 chi put, 2ch output Analog Output Support (Thermal imaging or optical switchable) St-245 Support Best Button Support, pt 0 256GB Reset Button Support, pt 0 256GB</i>		
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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 Support Bectrical 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 Nodel Description SN-TPC6457DLT-F15 Thermal Focal Length: 15mm, Optical Focal Length: 6mm SN-TPC6457DLT-F25 Thermal Focal Length: 15mm, Optical Focal Length: 10 to 30mm	Interface	
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Alarm Interface 2ch input, 2ch output Analog Output Support (Thermal imaging or optical switchable) RS-485 Support 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-F15 Thermal Focal Length: 9mm, Optical Focal Length: 4mm SN-TPC6457DLT-F25 Thermal Focal Length: 15mm, Optical Focal Length: 10 to 30mm	Built-in Microphone	Support
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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 FORGER STPUT-F9 Thermal Focal Length: 9mm, Optical Focal Length: 4mm SN-TPC6457DLT-F25 Thermal Focal Length: 15mm, Optical Focal Length: 10 to 30mm	Alarm Interface	2ch input, 2ch output
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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	Reset Button	Support
Power ConsumptionMax. 25WWorking Temperature-40°C to 60°C (-40°F to 140°F)Storage ConditionsLess than 90% RHCertificationsCE /FCCIngress ProtectionIP66CasingMetalDimensions(327.4 to 347.4) × 140.04 × 120.72mm, (12.89 to 13.55) × 5.59 × 4.75 inch)Net Weight2.0Kg (4.41lb) with 50mm lensOrdering InformationSN-TPC6457DLT-F9Thermal Focal Length: 9mm, Optical Focal Length: 4mmSN-TPC6457DLT-F15Thermal Focal Length: 15mm, Optical Focal Length: 6mmSN-TPC6457DLT-F25Thermal Focal Length: 25mm, Optical Focal Length: 10 to 30mm	Electrical	
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	Power Supply	12DCV/24VAC/POE+ (IEEE 802.3at)
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	Power Consumption	Max. 25W
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	Working Temperature	-40°C to 60°C (-40°F to 140°F)
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	Storage Conditions	Less than 90% RH
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	Certifications	CE /FCC
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	Ingress Protection	IP66
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	Casing	Metal
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	Dimensions	(327.4 to 347.4) × 140.04 × 120.72mm, (12.89 to 13.55) × 5.59 × 4.75 inch)
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	Net Weight	2.0Kg (4.41lb) with 50mm lens
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	Ordering Information	
SN-TPC6457DLT-F15 Thermal Focal Length: 15mm, Optical Focal Length: 6mm SN-TPC6457DLT-F25 Thermal Focal Length: 25mm, Optical Focal Length: 10 to 30mm	Model	Description
SN-TPC6457DLT-F25 Thermal Focal Length: 25mm, Optical Focal Length: 10 to 30mm	SN-TPC6457DLT-F9	Thermal Focal Length: 9mm, Optical Focal Length: 4mm
	SN-TPC6457DLT-F15	Thermal Focal Length: 15mm, Optical Focal Length: 6mm
SN-TPC6457DLT-F35 Thermal Focal Length: 35mm, Optical Focal Length: 10 to 30mm	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

Dimensions (mm)







Accessories

Optional:







SN-CBK101A Pole Mount



SN-CBK102A Corner Mount