

SN-TPC2553DRT-F

Thermal & Optical Bi-spectrum Network Bullet Camera



Key Features

- Uncooled VOx Micro bolometer with 256×192 resolution
- Thermal: 3.5/7/10mm fixed lens, Visible: 4/8mm fixed lens
- Support human and vehicle detection
- Support smoker detection, smoke & fire detection and fire point detection
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering,
 wrong-way, people counting, enter area, leave area and smart motion detection
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature monitoring and exception alarm, -20°C to 150°C (-4°F to 302°F)
- Support sound-light alarm
- Smart IR distance up to 50m
- Support I/O alarm, RS485, built-in SD card slot
- DC12V/DC24V, PoE power supply

Specification

Thermal Camera			
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
Resolution	256×192, Image can be scaled up to 704×576		
Pixel Pitch	12um		
Spectral Range	8 to 14um		
Thermal Sensitivity (NETD)	≤ 50mK		
Lens Type	Fixed, F1.0		
Focus Control	Free focus		
Focal Length	3.5mm	7mm	10mm
Angle of View	H: 48°, V: 36°	H: 24°, V: 18°	H: 17°, V: 13°
Detection Distance (Humans: 1.8×0.5m)	146m (479.0ft)	291m (954.7ft)	416m (1,364.8ft)
Detection Distance (Vehicles: 4×1.5m)	447m (1,466.5ft)	894m (2,933ft)	1278m (4,192.9ft)
Recognition Distance (Human: 1.8×0.5m)	36m (118.1ft)	73m (239.5ft)	104m (341.2ft)
Recognition Distance (Vehicle: 4×1.5m)	112m (367.5ft)	224m (734.9ft)	319m (1,046.5ft)
Identification Distance (Human: 1.8×0.5m)	18m (59ft)	36m (118.1ft)	52m (170.6ft)
Identification Distance (Vehicle: 4×1.5m) * The table is only for reference and the	56m (183.7ft)	112m (367.5ft)	160m (524.9ft)

^{*} 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.

Detection Range Table			
VCA Detection Distance (Human: 1.8×0.5m)	30m (98.4ft)	65m (213.3ft)	103m (337.9ft)
VCA Detection Distance (Vehicle: 4×1.5m)	90m (295.3ft)	144m (472.4ft)	230m (754.6ft)
Temperature Measurement (Object: 1 × 1m)	58.3m (191.3ft)	116.7m (382.9ft)	166.7m (546.9ft)
Temperature Measurement (Object: 0.2 × 0.2m)	11.7m (38.4ft)	23.3m (76.4ft)	33.3m (109.3ft)
Fire Detection (Object: 0.2×0.2m)	41.7m (136.8ft)	83.3m (273.3ft)	119m (390.4ft)
Smoking Detection	13m (42.7ft)	25m (82ft)	40m (131.2ft)

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	1/2.7" CMOS
Effective Resolution	2880(H)×1620(V)

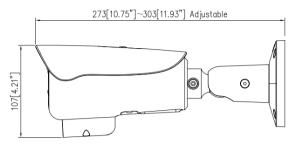
^{*} The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

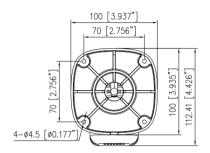
Shutter Speed	1/5 to 1/20,000s	1/5 to 1/20,000s		
Wide Dynamic Range	True WDR 120dB	True WDR 120dB		
Min. Illumination	Color: 0.05Lux @(F1.6, AGC ON	Color: 0.05Lux @(F1.6, AGC ON), B/W: 0.005Lux @(F1.6, AGC ON), 0Lux with IR		
S/N Ratio	More than 55dB	More than 55dB		
White Balance	Auto/Manual	Auto/Manual		
Day & Night Mode	IR Cut Filter with Auto Switch	IR Cut Filter with Auto Switch		
Focal Length	4mm, F1.6	8mm, F2.0	8mm, F2.0	
Angle of View	H: 92°, V: 46°	H: 40°, V: 20°	H: 40°, V: 20°	
Illuminator				
IR Distance	Up to 35 m (114.8 ft)	Up to 50 m (164.0 ft)	Up to 50 m (164.0 ft)	
White Light	Strobe light			
Video and Audio				
Main Stream		0, 2304×1296, 1920×1080, 1280×72	0 @25/30fps	
Sub Stream	Thermal: D1, CIF, 256×192 @2 Optical: D1, VGA @25/30fps	Thermal: D1, CIF, 256×192 @25/30fps Optical: D1, VGA @25/30fps		
Bit Rate Control	CBR/VBR			
Bit Rate		Main Stream: Thermal: 100Kbps to 3Mbps, Optical: 100Kbps to 12Mbps Sub Stream: Thermal: 10Kbps to 3Mbps, Optical: 10Kbps to 6Mbps		
Region of Interest	Off/On (8 Zone, Rectangle)	Off/On (8 Zone, Rectangle)		
Smart Encode	Support	Support		
Audio Compression	G.711: 64Kbps, RAW_PCM: 12	G.711: 64Kbps, RAW_PCM: 128Kbps		
Image				
Image Setting	Brightness, Sharpness, Contras	Brightness, Sharpness, Contrast, Saturation		
Mirror	Support	Support		
Pseudo-color Setting	White-hot/Black-hot/Rainbow	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		
Privacy Masking	Support	Support		
Bi-Spectrum Image Fusion	Support	Support		
Smart Function				
Smart Function	Temperature measurement, h	Temperature measurement, human detection and vehicle detection		
Advanced Intelligence Analysis	Smoker detection, Smoke and	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, smart motion detection (these function support accurate detection of human or vehicles), People counting		
Sound-light Alarm	Support white light flashing an	Support white light flashing and horn warning		
Temperature Measurement	3 temperature measurement r	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).		

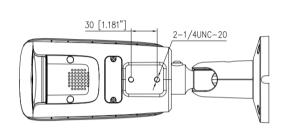
Accuracy 22°U / 22% Response Time 2 30ms Temperature Range 20°C to 150°C (4°T to 302°F) Network Protocols Interoperature Range 10°WF Max. User Access 10 Users Web Viewer <access chinese,="" czech,="" default;="" english,="" english<="" french,="" hungarian,="" italian,="" of="" polish,="" portuguese,="" russian,="" spanish,="" td=""> Intertace Web Language Web Viewer 1 Ethernet [10/100 Base-1] RI-45 Connector Nucloi Interface 1 Ethernet [10/100 Base-1] RI-45 Connector Reset Button Support So Card Stot Support Reset Button Support So Card Stot Support, up to 25668 Electrical Brower Consumption Max. 12W Vorbring Temperature 40°C to 60°C (-40°F to 140°F) Certifications <td< th=""><th>Temperature Alarm</th><th>Over temperature alarm, Temperature difference alarm</th></td<></access>	Temperature Alarm	Over temperature alarm, Temperature difference alarm
Response Time \$ 3 mms Temperature Range 20°C to 150°C (4°F to 302°F) Network Protocols IPv4/IPv6, IHTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x Interoperability ONVIF Max, User Access 10 Users Web Viewer «IEL1, Chrome, Firefox, Microsoft Edge Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Default: English Interface 1 Ethemet (10/100 Base-T) RF-45 Connector Audio Interface 1 th Input, 1ch output Bullt-in Speake Support Audio Interface 2 th Input, 2ch output RS-485 Support Reset Button Support SD Card Slot Support, up to 25668 Electrical *** **Prover Supply Power Supply 120CV/24VDC/PoE (IEEE 802.3al) Power Consumption Max. 12W Working Temperature 40°C to 60°C (-40°F to 140°F) Storage Conditions Lass than 90% RH Certifications CE /FCC Ingress Protection Metal Dimensions 303 x 95 x 1		
Temperature Range -20°C to 150°C (-4" ft os 302" ft) Network Protocols IP-4/8P-6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x Interoperability ONVIF Max. User Access 10 Users Web Viewer < REI1, Chrome, Firefox, Microsoft Edge		
Protocols IP-4/IP-6, HTTP, RTSP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x Interoperability ONVIF Max. User Access 10 Users Web Viewer <ili>English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Crech, Hungarian. Default: English Interface Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Crech, Hungarian. Default: English Interface Network Interface 1 Ethernet (10/100 Base-IT) RI-45 Connector Audio Interface 2 Ech Input, 2ch output Built-in Speaker 3 Support Alarm Interface 3 Support Built-in Speaker 4 Support Burn Interface 5 Support SD Card Slot 5 Support 5 Support Burn Interface 5 Support 5 Support Burn Interface 6 Support 6 Support SD Card Slot 6 Support 9 Support Burn Interface 7 Support 9 Support 9 Support Burn Interface 7 Support 9 Supp</ili>	·	
Protocols IPva/IPv6, HTTP, RTSP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x Interoperability ONVIF Max. User Access 10 Users Web Viewer <iel1, chrome,="" edge<="" firefox,="" microsoft="" th=""> Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Default: English Interface 1 Ethernet (10/100 Base-T) RI-45 Connector Audio Interface 1 Ethernet (10/100 Base-T) RI-45 Connector Audio Interface 1 Chinput, 2ch output Built-in Speaker Support Alarm Interface 2 Chinput, 2ch output Reset Button Support SD Card Slot Support Electrical Very Support Power Supply 1 2DCV/24VDC/PoE (IEEE 802.3af) Power Consumption Max. 12W Working Temperature -40°C to 60°C (-40°F to 140°F) Storage Conditions Less than 90% RH Certifications CE /ECC Ingress Protection 1P66 Casing Metal Dimensions 303 x 95 x 107mm (11.93 x 3.74 x 4.21 inch) Net Weight 1.35Kg (2.98lb)</iel1,>		
Interoperability Max. User Access 10 Users Web Viewer <iri> Keb Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Interface Leh Input, 1ch output </iri>		IPv4/IPv6. HTTP. RTSP/RTP/RTCP. TCP/UDP. DHCP. DNS. PPPOE. SMTP. 802.1x
Max. User Access 10 Users Web Viewer <pre> xiE11. Chrome, Firefox, Microsoft Edge Web Language</pre>		
Web Viewer AlE11, 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 1 Chinput, 1ch output Built-in Speaker Support Alarm Interface 2 Chinput, 2ch output RS-485 Support Reset Button Support SD Card Slot Support, up to 256GB Electrical Power Supply 12DCV/24VDC/PoE (IEEE 802.3af) Power Consumption Max. 12W 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 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1,35Kg (2.98lb) Ordering Information NH-TPC25S3DRT-F3.5 Thermal Focal Length: 3mm, Optical Focal Length: 4mm SN-TPC25S3DRT-F3.5 Thermal Focal Length: 7mm, Optical Focal Length: 8mm		
Web Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Interface I Ethernet (10/100 Base-T) RI-45 Connector Audio Interface 1ch input, 1ch output Built-in Speaker Support Alarm Interface 2ch input, 2ch output RS-485 Support SD Card Slot Support Electrical Power Supply Power Supply 12DCV/24VDC/PoE (IEEE 802.3af) Power Consumption Max. 12W 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 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC25S3DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 8mm		
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Network Interface 1 Ethernet (10/100 Base-T) RI-45 Connector Audio Interface 1 ch input, 1ch output Built-in Speaker Support R5-485 Support Reset Button Support 50 Card Slot Support, up to 256GB Ectrical Very Consumption Power Supply 12DCV/24VDC/PoE (IEEE 802.3af) Power Consumption Max. 12W 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 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35kg (2.98ib) Ordering Information Wodel Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm		
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Power Supply 12DCV/24VDC/PoE (IEEE 802.3af) Power Consumption Max. 12W 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 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Reset Button	Support
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Power Consumption Max. 12W 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 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Credering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Electrical	
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Storage Conditions Less than 90% RH Certifications CE /FCC Ingress Protection IP66 Casing Metal Dimensions 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Power Consumption	Max. 12W
Certifications CE /FCC Ingress Protection IP66 Casing Metal Dimensions 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Working Temperature	-40°C to 60°C (-40°F to 140°F)
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Casing Metal Dimensions 303 × 95 × 107mm (11.93 × 3.74× 4.21 inch) Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Certifications	CE /FCC
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Net Weight 1.35Kg (2.98lb) Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Casing	Metal
Ordering Information Model Description SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Dimensions	303 × 95 × 107mm (11.93 × 3.74× 4.21 inch)
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SN-TPC2553DRT-F3.5 Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Ordering Information	
SN-TPC2553DRT-F7 Thermal Focal Length: 7mm, Optical Focal Length: 8mm	Model	Description
	SN-TPC2553DRT-F3.5	Thermal Focal Length: 3.5mm, Optical Focal Length: 4mm
SN-TPC2553DRT-F10 Thermal Focal Length: 10mm, Optical Focal Length: 8mm	SN-TPC2553DRT-F7	Thermal Focal Length: 7mm, Optical Focal Length: 8mm
	SN-TPC2553DRT-F10	Thermal Focal Length: 10mm, Optical Focal Length: 8mm

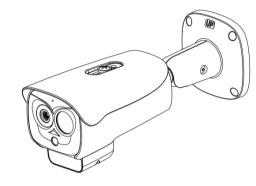
Dimensions (mm)











Accessories

Optional:







SN-CBK101A Pole Mount



SN-CBK102A Corner Mount



SN-CBK627D Pole Mount