

SN-TPC6406VT-Z

Thermal Imaging Box Network Camera



Key Features

- VOx uncooled focal plane detector with 640×512 resolution
- NETD ≤ 40mK
- 4x (26 to 105mm)/5x (30 to 150mm) motorized lens optional
- Supports human and vehicle detection, as well as smoking and fire point detection.
- Intelligent Analytics: intrusion, single line crossing, double line crossing, loitering, wrong-way detection, enter area, leave area, and people counting
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature measurement range: -20°C to 150°C (-4°F to 302°F)
- Accuracy: ±2°C / ±2%
- NDAA Compliance





Specification

Resolution Sensor is 640×512. Image can be scaled up to 1280×1024 Pixel Pitch 12 µm NETO \$40mK Spectral Range 8 to 14 µm Focus Control Motorized lens (Motorized focus) Focal Length 26 to 105 mm, 30 to 150 mm Aperture F1.6 / F0.85 to F1.2 26 to 105 mm, 30 to 150 mm, Field of View (FOV) - H1.68* to 42 / V.* 13.4* to 3.4* 30 to 150 mm, H1.14.5* to 2.9*, V.* 11.6* to 2.3* Intelligent Analysics Smart Detection Human and Vehicle Detection, Fire Point Detection, and Smoking Detection. (Ship Detection optional) Intelligent Analysis (Intrusion, Single line crossing, Double line crossing, Lottering, Wrong-way detection, Enter area, and Leave area (these functions support accurate detection of human / vehicles) People counting Support Thermal Function Temperature Range -20°C to 150°C (-4°F to 302°F) Accuracy ±2°C / ±2% Temperature Range -20°C to 150°C (-4°F to 302°F) Accuracy ±2°C / ±2% Temperature Detection 3 temperature difference alarm. Threshold alarm, Temperature rise alarm Temperature Alarm Temperature difference alarm. Threshold alarm, Temperature rise alarm Temperature Display alarm to lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature Response Time ±30ms Video and Audio Main stream 1280×1024, 1280×720, 640×512 @25/ps Bit Rate Control CBR/V8R Bit Rate Sub stream: 100 Kbps to 8 Mbps, Sub stream: 100 Kbps to 6 Mbps Region of Interest OH/On (8 Zone, Rectangle) Audio Bit Rate Control CBR/V8R Bit Rate Sub stream: 100 Kbps to 6 Mbps Mortion Interest OH/On (8 Zone, Rectangle) Murror Horizontal / Vertical / Horizontal + Vertical Presede-color Setting Price-hot / Pink / Spring / Spring / Rose-Bengal) Mirror Horizontal / Vertical / Horizontal + Vertical Presede-color Setting Price-hot / Pink / Spring / Spring / Rose-Bengal)	Thermal Module		
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Spectral Range 8 to 14 µm Focus Control Motorized lens (Motorized focus) Focal Length 26 to 105 mm, 30 to 150 mm Aperture F1.6 / F0.85 to F1.2 25 to 105 mm, -H: 16.8° to 4.2°, V: 13.4° to 3.4° 30 to 150 mm, -H: 16.5° to 2.9°, V: 11.6° to 2.3° Intelligent Analytics Smart Detection Human and Vehicle Detection, Fire Point Detection, and Smoking Detection, (Ship Detection optional) Intelligent Analysis (these functions support accurate detection of human / vehicles) People counting Support Thermal Function Temperature Range -20°C to 150°C (-4°F to 302°F) Accuracy ±2°C / ±2% Temperature Detection 3 temperature difference alarm, Threshold alarm, Temperature rise alarm Temperature Display average temperature difference alarm, Threshold alarm, Temperature is alarm Temperature Display average temperature **sagonse Time \$30ms Video and Audo Main Stream 1280×1024, 1280×720, 640×512 @25fps Bit Rate Control CRR/VRR Bit Rate Main stream: 100 Kbps to 8 Mbps, \$30 sub stream: 100 Kbps to 8 Mbps, \$30 sub stream: 100 Kbps to 8 Mbps, \$30 sub stream: 100 Kbps to 8 Mbps, \$40 sub stream: 100 Kbps to 8	Resolution	Sensor is 640×512. Image can be scaled up to 1280×1024	
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Bit Rate Control Bit Rate Main stream: 100 Kbps to 8 Mbps, Sub stream: 100 Kbps to 6 Mbps Region of Interest Off/On (8 Zone, Rectangle) Audio Compression G.711 A-law, G.711 μ-law, PCM Audio Bit Rate 64 Kbps (G.711), 128 Kbps (PCM) Image Image Setting Brightness, Contrast, Sharpness Mirror Horizontal / Vertical / Horizontal + Vertical Pseudo-color Setting Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose - Bengal) FFC Control Auto / Manual	Main Stream	1280×1024, 1280×720, 640×512 @25fps	
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Image Setting Brightness, Contrast, Sharpness Mirror Horizontal / Vertical / Horizontal + Vertical Pseudo-color Setting Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose - Bengal) FFC Control Auto / Manual	Audio Bit Rate	64 Kbps (G.711), 128 Kbps (PCM)	
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Pseudo-color Setting Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose -Bengal) FFC Control Auto / Manual	Image Setting	Brightness, Contrast, Sharpness	
/ Summer / Autumn / Winter / Jet / Flame / Rose -Bengal) FFC Control Auto / Manual	Mirror	Horizontal / Vertical / Horizontal + Vertical	
	Pseudo-color Setting		
Noise Reduction 2D/3D DNR	FFC Control	Auto / Manual	
	Noise Reduction	2D/3D DNR	

OSD	Up to 8 OSD	
Privacy Masking	Up to 4 areas	
Event		
Alarm Triggers	IVS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection	
Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output	
Network		
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast	
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI	
Max Concurrent Streams	10 channels	
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user	
Security	IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	
Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>	
Interface		
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector	
Audio Interface	1ch Audio In, 1ch Audio Out	
Alarm Interface	1ch Alarm In, 1ch Alarm Out	
Control Interface	1ch RS-485, 1ch RS-232	
SD Card Slot	Built-in, up to 512GB	
Reset Button	Support	
General		
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English	
Power Supply	12VDC±25%	
Power Consumption	Max 5.6W	
Working Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)	
Operating Humidity	0 to 90% RH	
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B	
Ingress Protection	N/A	
Material	Metal	
Dimensions	64.8× 52 × 52 mm (2.55× 2.05 × 2.05 inch) without lens	
Net Weight	0.2 kg (0.44 lb) without lens	
Ordering Information		
Model	Description	
SN-TPC6406VT-Z4	Focal Length: 26 to 105 mm	
SN-TPC6406VT-Z5	Focal Length: 30 to 150 mm	

Thermal DRI Range Table

Note: The table is only for reference and the performance may vary according to different environment.

Note: 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.

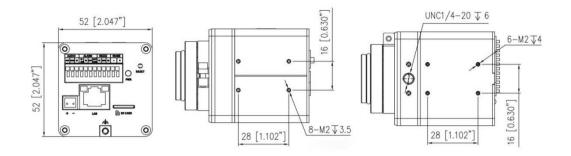
DRI Distance Table				
Focal Length	26 to 105 mm	30 to 150 m		
Detection Distance (Humans: 1.8×0.5m)	1,083 to 4,375 m (3553.2 to 14,353.7 ft)	1,250 to 6,250 m (4101.1 to 20,505.3 ft)		
Detection Distance (Vehicles: 4×1.5m)	3,322 to 13,417 m (10,899 to 44,019 ft)	3,833 to. 19,167 m (12,575.5 to 62,883.9 ft)		
Recognition Distance (Humans: 1.8×0.5m)	271 to 1,094 m (889.1 to 3,589.2 ft)	312 to 1,563 m (1,023.6 to 5,128.0 ft)		
Recognition Distance (Vehicles: 4×1.5m)	831 to 3,354 m (2,726.4 to 11,003.9 ft)	958 to 4,792 m (3,143 to 15,721.8 ft)		
Identification Distance (Humans: 1.8×0.5m)	135 to 547 m (442.9 to 1,794.6 ft)	156 to 781 m (511.8 to 2,562.3 ft)		
Identification Range (Vehicles: 4×1.5m)	415 to 1,677 m (1361.5 to 5502 ft)	479 to 2,396 m (1,571.5 to 7,860.9 ft)		

Thermal Smart Detection Distance Range Table

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.

Detection Range Table				
Focal Length	26 to 105 mm	30 to 150 m		
VCA Detection Distance (Human: 1.8 × 0.5 m)	Up to 480 m (1,574.8 ft)	Up to 705 m (2,313.0 ft)		
VCA Detection Distance (Front/Rear of Vehicle: 4×1.5 m)	Up to 840 m (2,755.9 ft)	Up to 1,200 m (3,937.0 ft)		
Temperature Measurement (Object: 1 × 1m)	433 to 1,750 m (1,420.6 to 5,741.5 ft)	500 to 2,500 m (1,640.4 to 8,202.1 ft)		
Temperature Measurement (Object: 0.2 × 0.2m)	87 to 350 m (285.4 to 1,148.3 ft)	100 to 500 m (328.1 to 1,640.4 ft)		
Fire Detection (Object: 1 × 1m)	1,083 to 4,375 m (3,553.2 to 14,353.7 ft)	1,250 to 6,250 m (4,101 to 20,505.2 ft)		
Fire Detection (Object: 0.2 × 0.2m)	217 to 875 m (712 to 2,870.7 ft)	250 to 1,250 m (820.2 to 4,101 ft)		

Dimensions (mm)



30 to 150 mm Lens

