



SNTPC6406KTF

Thermal Imaging Network Bullet Camera



Key Features

- VOx uncooled focal plane detector with 640×512 resolution
- NFTD < 40mK
- 9/15/25/35/50mm fixed 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%
- Support 12VDC/24VAC/PoE power supply
- NDAA Compliance, IP66

Specification

Resolution Vanadium Oxide Uncooled Focal Plane Arrays Resolution Sensor is 640-512. Image can be scaled up to 1280-1024 Picel Pitch 12 µm NTCT 4 shork Spectral Range 8 to 14 µm Focal Length 9 mm. 15 mm, 25 mm, 35 mm, 50 mm Focal Length 9 mm. 14 887, v. 38° Field of View (FOV) 9 mm. H. 487, v. 38° Simm H. 297, v. 127 38° Symmatry Commander 15 mm, H. 297, v. 127 Te	Thermal Module	
Pixel Pitch 12 jum 12 jum 12 jum 12 jum 13 ju	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
NETO \$ 40mK Spectral Range 8 to 14 µm Focus Control Fixed lens (Focus-Free) Focal Length 9 mm. 15 mm. 25 mm. 35 mm. 50 mm Aperture FLO Fleid of View (FOV) 9 mm. H. 48°, V. 38° 15 mm. H. 12°, V. 23° 25 mm. H. 12°, V. 10° 35 mm. H. 12°, V. 10° 50 mm. H. 8°, V. 7° Intelligent Analysis Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way detection, Enter area, and Leave area (these functions support accurate detection of human / vehicles) People counting Support Temperature Analysis 10 mm. 10 mm. 10°	Resolution	Sensor is 640×512. Image can be scaled up to 1280×1024
Spectral Range 8 to 14 µm Focus Control Fixed lens (Focus Free) Focal Length 9 mm, 15 mm, 25 mm, 35 mm, 50 mm Aperture FLO Field of View (FOV) 9 mm: H - 88", V: 38" 15 mm; H: 27", V: 10" 50 mm; H: 8", V: 70" Intelligent Analystic Somm: H: 8", V: 10" 50 mm; H: 8", V: 10"	Pixel Pitch	12 μm
Focal Length 9mm, 15 mm, 25 mm, 35 mm, 50 mm Aperture Floid of View (FOV) Floid of Wiew (FOV) Smm; H: 48°, V: 38° 15 mm; H: 29°, V: 23° 25 mm; H: 37°, V: 14° 35 mm; H: 37°, V: 16° 30 mm; H: 8°, V: 7° Intelligent Analytis Sman Detection Human and Vehicle detection, Fire point detection, and Smoking 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 22°C / 22% Temperature Detection 3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). Temperature Display appears to 150 mm; 100 mm,	NETD	≤ 40mK
Focal Length 9 mm, 15 mm, 25 mm, 35 mm, 50 mm Aperture FLO Field of View (FOV) \$\begin{array}{cccccccccccccccccccccccccccccccccccc	Spectral Range	8 to 14 μm
Aperture Field of View (FOV) Semin Hand Service Ser	Focus Control	Fixed lens (Focus-Free)
Field of View (FOV) Semil H: 127, V: 138* 15 mm; H: 297, V: 237 25 mm; H: 127, V: 147 25 mm; H: 127, V: 107 50 mm; H: 87, V: 77 Intelligent Analytics Smart Detection	Focal Length	9 mm, 15 mm, 25 mm, 35 mm, 50 mm
Field of View (FOV)	Aperture	F1.0
Smart Detection Human and Vehicle detection, Fire point detection, and Smoking detection. Intelligent Analysis Intrusion, Single line crossing, Double line crossing, Loitering, 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 Detection 3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). Temperature Alarm Temperature difference alarm, Threshold alarm, Temperature rise alarm Temperature Display Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature Response Time \$ 30ms Video and Audio Wideo and Audio Wideo and Audio Bit Rate D1, CIF @25fps Bit Rate Control CBR/VBR Bit Rate Main stream: 100 Kbps to 8 Mbps, Sub 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 6	Field of View (FOV)	15 mm: H: 29°, V: 23° 25 mm: H: 17°, V: 14° 35 mm: H: 12°, V: 10°
Intelligent Analysis Intrusion, Single line crossing, Double line crossing, Loitering, 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 Detection 3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). Temperature Alarm Temperature difference alarm, Threshold alarm, Temperature rise alarm Temperature Display Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature Response Time \$30ms Video and Audio Video and Audio Video and Audio Video and Audio Substream 1280×1024, 1280×720, 640×512 @25fps Sub Stream DI, CIF @25fps Bit Rate Control CBR/VBR 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 G4 Kbps (G.711), 128 Kbps (PCM) Image Image Setting Brightness, Contrast, Sharpness Mirror Horizontal / Vertical / Horizontal + Vertical Mirror Autumn / Winter / Jet / Flame / Rose -Bengal) FFC Control Auto / Manual	Intelligent Analytics	
Chese Functions support accurate detection of human / vehicles Support	Smart Detection	Human and Vehicle detection, Fire point detection, and Smoking detection.
Thermal Function Temperature Range -20°C to 150°C (-4°F to 302°F) Accuracy ±2°C / ±2% Temperature Detection 3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). Temperature Alarm Temperature difference alarm, Threshold alarm, Temperature rise alarm Temperature Display Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature Response Time \$ 30ms Video and Audio Walson Audio Sub Stream D1, CIF @25fps Bit Rate Control CBR/VBR Bit Rate Control CBR/VBR 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 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 FC Control Auto / Manual	Intelligent Analysis	
Temperature Range-20°C to 150°C (-4°F to 302°F)Accuracy±2°C / ±2%Temperature Detection3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).Temperature AlarmTemperature difference alarm, Threshold alarm, Temperature rise alarmTemperature Displayalisplay in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperatureResponse Time≤ 30msVideo and AudioVideo and AudioMain Stream1280×1024, 1280×720, 640×512 @25fpsSub StreamD1, CIF @25fpsBit Rate ControlCBR/VBRBit RateMain stream: 100 Kbps to 8 Mbps, Sub stream: 100 Kbps to 6 MbpsRegion of InterestOff/On (8 Zone, Rectangle)Audio CompressionG.711 A-law, G.711 μ-law, PCMAudio Bit Rate64 Kbps (G.711), 128 Kbps (PCM)ImageImageImage SettingBrightness, Contrast, SharpnessMirrorHorizontal / Vertical / Horizontal + VerticalPseudo-color SettingJup 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 ControlAuto / Manual	People counting	Support
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/ 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
Alarm Events	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
User/Host Level	Up to 10 users, 3 levels: Administrator, Operator, Media user
Security	IP address filter, encrypted 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	2ch Alarm In, 2ch Alarm Out
BNC Interface	1ch (CVBS output)
Control Interface	1ch RS-485
SD Card Slot	Built-in, up to 512GB
Reset Button	Support
General	
General Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English 12VDC/24VAC/PoE (802.3af)
Language	
Language Power Supply	12VDC/24VAC/PoE (802.3af)
Language Power Supply Power Consumption	12VDC/24VAC/PoE (802.3af) Max 5W
Language Power Supply Power Consumption Working Temperature/Humidity	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal φ120.5 × 315.9 ~ 352.6 mm (φ4.74″ × 12.44″ ~ 13.88″)
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions Net Weight	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal φ120.5 × 315.9 ~ 352.6 mm (φ4.74″ × 12.44″ ~ 13.88″)
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Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions Net Weight Ordering Information Model	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal φ120.5 × 315.9 ~ 352.6 mm (φ4.74″ × 12.44″ ~ 13.88″) 1.7 kg (3.75 lb) with 9mm lens
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions Net Weight Ordering Information Model SN-TPC6406KT-F09	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal φ120.5 × 315.9 ~ 352.6 mm (φ4.74″ × 12.44″ ~ 13.88″) 1.7 kg (3.75 lb) with 9mm lens Description Focal Length: 9mm
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions Net Weight Ordering Information Model SN-TPC6406KT-F09 SN-TPC6406KT-F15	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal Φ120.5 × 315.9 ~ 352.6 mm (Φ4.74″ × 12.44″ ~ 13.88″) 1.7 kg (3.75 lb) with 9mm lens Description Focal Length: 9mm Focal Length: 15mm
Language Power Supply Power Consumption Working Temperature/Humidity Operating Humidity Certifications Ingress Protection Material Dimensions Net Weight Ordering Information Model SN-TPC6406KT-F09 SN-TPC6406KT-F15 SN-TPC6406KT-F25	12VDC/24VAC/PoE (802.3af) Max 5W -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66 Metal ф120.5 × 315.9 ~ 352.6 mm (ф4.74″ × 12.44″ ~ 13.88″) 1.7 kg (3.75 lb) with 9mm lens Pescription Focal Length: 9mm Focal Length: 15mm Focal Length: 25mm

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	9 mm	15 mm	25 mm	35 mm	50 mm		
Detection Distance (Humans: 1.8×0.5m)	375 m (1230.3 ft)	625 m (2,050.5 ft)	1,042 m (3,418.6 ft)	1,458 m (4,783.5 ft)	2,083 m (9,196.2 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)	365 m (1,197.5 ft)	521 m (1,709.3 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)		

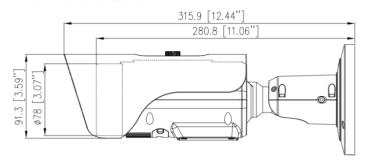
Thermal Smart Detection Distance Range Table

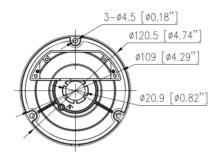
Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

Detection Range Table						
Focal Length	9 mm	15 mm	25 mm	35 mm	50 mm	
VCA Detection Distance (Human: 1.8 × 0.5 m)	40 m (131.2 ft)	65 m (213.3 ft)	101 m (331.4 ft)	160 m (524.9 ft)	235 m (771 ft)	
VCA Detection Distance (Front/Rear of Vehicle: 4×1.5 m)	65 m (213.3 ft)	130 m (426.5 ft)	230 m (754.6 ft)	320 m (1,049.9 ft)	400 m (1,312.3 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 (9,196.2 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)	

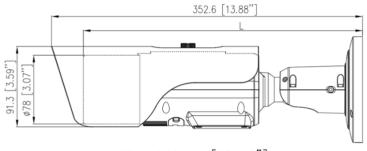
Dimensions (mm)

F9/F15 mm Lens





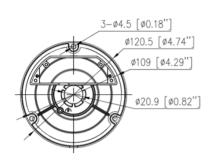
F25/F35/F50 mm Lens



f50 L=316.5mm[12.46"]

f35 L=305.3mm[12.02"]

f25 L=296.8mm[11.69"]



Accessories

Optional:







SN-CBK101A Pole Mount



SN-CBK102A Corner Mount