



# SNTPC4207KTF

**Thermal Imaging Network Bullet Camera** 



#### **Key Features**

- VOx uncooled focal plane detector with 384×288 resolution
- NETD ≤ 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 range: -20°C to 150°C or 0°C to 550°C, Accuracy: ±2°C / ±2%
- Built-in mic and speaker, support two-way audio
- Support 12VDC/24VAC/PoE power supply
- NDAA Compliance, IP66

## Specification

Image SensorVanadium Oxide Uncooled Focal Plane ArResolutionSensor is 384×288. Image can be scaled up	rravs
Resolution Sensor is 384×288. Image can be scaled u	- 1 -
	ıp to 1280×720
Pixel Pitch 17 µm	
NETD ≤40mK	
Spectral Range 8 to 14 µm	
Focus Control Fixed lens (Focus-Free)	
Focal Length9 mm, 15 mm, 25 mm, 35 mm, 50 mm	
Aperture F1.0	
9 mm: H: 37°, V: 28°           15 mm: H: 28°, V: 21°           25 mm: H: 14°, V: 11°           35 mm: H: 10°, V: 8°           50 mm: H: 7.4°, V: 5.6°	
Intelligent Analytics	
Smart Detection Human and Vehicle detection, Fire point of	
Intelligent Analysis Intrusion, Single line crossing, Double line (these functions support accurate detection)	e crossing, Loitering, Wrong-way, Enter area, and Leave area ion of human / vehicles)
People counting Support	
Thermal Function	
Temperature Range-20°C to 150°C (-4°F to 302°F) or 0°C to 5	50°C (32°F to 1022°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	
Temperature DisplayDisplay in the lower left corner; follow the average temperature	e cursor display of the highest temperature, lowest temperature or
Response Time ≤ 30ms	
Video and Audio	
Main Stream 1280×720, 704×576, 384×288 @25fps	
Sub Stream         704×576, 384×288, 352×240 @25fps	
Bit Rate Control CBR/VBR	
Bit RateMain 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 Rate64 Kbps (G.711), 128 Kbps (PCM)	
Image	
Image Setting Brightness, Contrast, Sharpness	
Mirror Horizontal / Vertical / Horizontal + Vertica	al
Pseudo-color Setting Up to 17 colors (White-hot / Black-hot / F / Summer / Autumn / Winter / Jet / Flam	Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring e / Rose -Bengal)
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
Built-in Microphone	Support
Built-in Speaker	Support
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 1TB
Reset Button	Support
General	
Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
Power Supply	12VDC/24VAC/PoE (802.3af)
Power Consumption	Max 4.5W
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 55032:2015+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)
Ingress Protection	IP66
Material	Metal
Dimensions	φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")
Net Weight	1.62 kg (3.57 lb) with 9mm lens
Ordering Information	
Model	Description
SN-TPC4207KT-F09	Focal Length: 9 mm
SN-TPC4207KT-F15	Focal Length: 15 mm
SN-TPC4207KT-F25	Focal Length: 25 mm
SN-TPC4207KT-F35	Focal Length: 35 mm
SN-TPC4207KT-F50	Focal Length: 50 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	9 mm	15 mm	25 mm	35 mm	50 mm	
Detection Distance (Humans: 1.8×0.5m)	265 m (869.4 ft)	441 m (1,446.9 ft)	735 m (2,411.4 ft)	1,029 m (3,376.0 ft)	1,471 m (4,826.1 ft)	
Detection Distance (Vehicles: 4×1.5m)	812 m (2,664 ft)	1,353 m (4,439 ft)	2,255 m (7,398.3 ft)	3,157 m (10,357.6 ft)	4,510 m (14,796.6 ft)	
Recognition Distance (Humans: 1.8×0.5m)	66 m (216.5 ft)	110 m (360.9 ft)	184 m (603.7 ft)	257 m (843.2 ft)	368 m (1,207.4 ft)	
Recognition Distance (Vehicles: 4×1.5m)	203 m (666 ft)	338 m (1,109 ft)	564 m (1,850.4 ft)	789 m (2,588.6 ft)	1,127 m (3,697.5 ft)	
Identification Distance (Humans: 1.8×0.5m)	33 m (108.3 ft)	55 m (180.4 ft)	92 m (301.8 ft)	129 m (423.2 ft)	184 m (603.7 ft)	
Identification Range (Vehicles: 4×1.5m)	101 m (331.4 ft)	169 m (554.5 ft)	282 m (925.2 ft)	395 m (1,296 ft)	564 m (1,850.4 ft)	

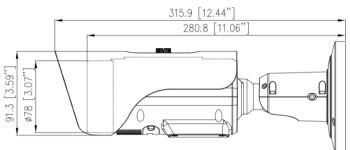
#### **Thermal IVS Distance Range Table**

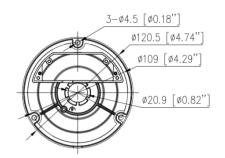
**Note**: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

Detection Range Table							
Focal Length	9 mm	15 mm	25 mm	35 mm	50 mm		
Temperature Measurement (Object: 0.2 × 0.2m)	21 m (68.9 ft)	35 m (114.8 ft)	59 m (193.6 ft)	82 m (269 ft)	118 m (616.8 ft)		
Fire Detection (Object: 1 × 1m)	265 m (869.4 ft)	441 m (1,446.9 ft)	735 m (2,411.4 ft)	1,029 m (3,376 ft)	1,471 m (4,826.1 ft)		
Fire Detection (Object: 0.2 × 0.2m)	53 m (173.9 ft)	88 m (288.7 ft)	147 m (482.3 ft)	206 m (675.9 ft)	294 m (964.6 ft)		

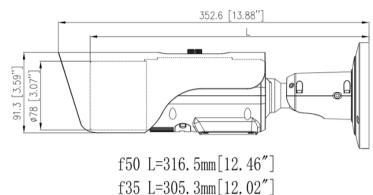
## **Dimensions (mm)**

#### F9/F15 mm Lens

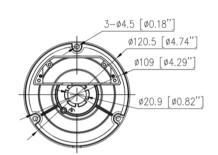




#### F25/F35/F50 mm Lens



f25 L=296.8mm[11.69"]



### Accessories

#### **Optional:**





SN-CBK645G Junction Box

SN-CBK101A Pole Mount



SN-CBK102A Corner Mount