



SNTPC4201KTF (III)

Thermal Imaging Network Bullet Camera



Key Features

- VOx uncooled focal plane detector with 400×300 resolution
- NETD ≤ 40mK
- 8/15/25/35/50mm fixed thermal lens optional
- Support temperature monitoring and exception alarm
- Intelligent analysis: intrusion, single line crossing, double line crossing, object left,
 object removed
- 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
- IP66

Specification

Thermal Module						
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays					
Resolution	Sensor is 400×300. Image can be scaled up to 704×576					
Pixel Pitch	17 μm					
NETD	≤ 40mK					
Spectral Range	8 to 14 μm					
Focus Control	Fixed lens (Manual focus)					
Focal Length	8 mm, 15 mm, 25 mm, 35 mm, 50 mm					
Aperture	F1.0					
Field of View (FOV)	8 mm: H: 46°, V: 35.3° 15 mm: H: 25.5°, V: 19.2° 25 mm: H: 15.4°, V: 11.6° 35 mm: H: 11°, V: 9° 50 mm: H: 7.7°, V: 5.8°					
Intelligent Analytics						
Intelligent Analysis	Intrusion detection, Single line crossing, Double line crossing, Object left, and Object removed					
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						
Main Stream	704×576 @25/30fps					
Sub Stream	CIF @25/30fps					
Bit Rate Control	CBR/VBR					
Bit Rate	Main stream: 100 Kbps to 6 Mbps, Sub stream: 10 Kbps to 1.5 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					
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					
Alarm Events	Alarm record, Alarm output, FTP upload, SMTP upload					
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					
RS-485	1ch					
BNC Interface	1ch (CVBS output)					
SD Card Slot	Built-in, up to 128GB					
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 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, EN 55035:2017, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014, EN 61000-3-2:2014, EN 61000-3-3:2013) FCC (FCC 47 CFR 15, Subpart B)					
Ingress Protection	IP66					
Material	Metal					
Dimensions	φ110 × 388 mm (φ4.33 × 15.28 inch)					
Net Weight	1.8 kg (3.97 lb) with 15mm lens					
Ordering Information						
Model	Description					
SN-TPC4201KT-F08 (III)	Focal Length: 8 mm					
SN-TPC4201KT-F15 (III)	Focal Length: 15 mm					
SN-TPC4201KT-F25 (III)	Focal Length: 25 mm					
SN-TPC4201KT-F35 (III)	Focal Length: 35 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.

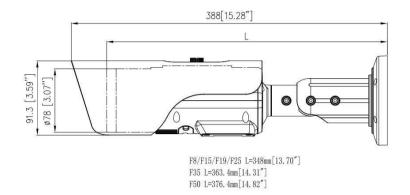
DRI Distance Table							
Focal Length	8mm	15mm	25mm	35mm	50mm		
Detection Distance (Humans: 1.8×0.5m)	235 m (771.7 ft)	441 m (1,446.9 ft)	735 m (2,411.4 ft)	1,029 m (3,376.0 ft)	1,471 m (4,826.1 ft)		
Detection Distance (Vehicles: 4×1.5m)	722 m (2,368.8 ft)	1,353 m (4,439 ft)	2,255 m (7,398.3 ft)	3,157 m (10,357.6 ft)	4,510 m (14,796.6 ft)		
Recognition Distance (Humans: 1.8×0.5m)	59 m (193.6 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)	180 m (590.6 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)	29 m (95.1 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)	90 m (295.3 ft)	169 m (554.5 ft)	282 m (925.2 ft)	395 m (1,296 ft)	564 m (1,850.4 ft)		

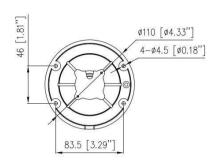
Thermal Smart Detection Distance Range Table

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	8mm	15mm	25mm	35mm	50mm		
Temperature Measurement (Object: 1 × 1m)	94 m (308.4 ft)	176 m (577.4 ft)	294 m (964.6 ft)	412 m (1,351.7 ft)	588 m (1,929.1 ft)		
Temperature Measurement (Object: 0.2 × 0.2m)	19 m (62.3 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)	235 m (771 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)	47 m (154.2 ft)	88 m (288.7 ft)	147 m (482.3 ft)	206 m (675.9 ft)	294 m (964.6 ft)		

Dimensions (mm)





Accessories

Optional:







SN-CBK645G Junction Box

SN-CBK101A Pole Mount

SN-CBK102A Corner Mount