

SN-TPC6406KT-F

Thermal Imaging Network Bullet Camera



Key Features

- VOx uncooled focal plane detector with 640×512 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 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

Thermal Module				
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	Sensor is 640×512. Image can be scaled up to 1280×1024			
Pixel Pitch	12 μm			
NETD	≤ 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	F1.0			
Field of View (FOV)	9 mm, H: 48°, V: 38° 15 mm, H: 29°, V: 23° 25 mm, H: 17°, V: 14° 35 mm, H: 12°, V: 10° 50 mm, H: 8°, V: 7°			
Intelligent Analytics				
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				
Main Stream	1280×1024, 1280×720, 640×512 @25fps			
Sub Stream	D1, 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	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, 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	2ch Alarm In, 2ch Alarm Out			
BNC Interface	1ch (CVBS output)			
Control Interface	1ch RS-485			
SD Card Slot	Built-in, up to 512 GB			
Reset Button	Support			
General				

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English				
Power Supply	12 VDC / 24 VAC / PoE (802.3af)				
Power Consumption	Max 5 W				
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	IP66				
Material	Metal				
Dimensions	φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")				
Net Weight	1.7 kg (3.75 lb) with 9mm lens				
Ordering Information					
Model	Description				
SN-TPC6406KT-F09	Focal Length: 9mm				
SN-TPC6406KT-F15	Focal Length: 15mm				
SN-TPC6406KT-F25	Focal Length: 25mm				
SN-TPC6406KT-F35	Focal Length: 35mm				
SN-TPC6406KT-F50	Focal Length: 50mm				

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)		

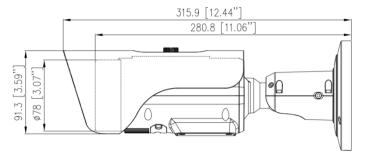
Thermal Smart Detection Distance Range Table

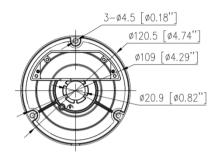
Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

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)	

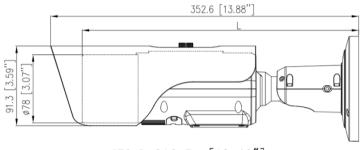
Dimensions (mm)

F9/F15 mm Lens





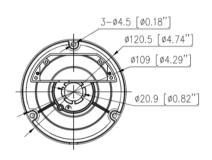
F25/F35/F50 mm Lens



f50 L=316.5mm[12.46"]

f35 L=305.3mm[12.02"]

f25 L=296.8mm[11.69"]



Accessories

Optional:



SN-CBK645G Junction Box



SN-CBK101A Pole Mount



SN-CBK102A Corner Mount