



SNTPC4233DJTF

Thermal & Optical Bi-spectrum Bullet Network Camera



Key Features

- 400 × 300 resolution, 17 μ m, VOx UFPA, NETD \leq 40 mK
- Thermal : 8/15/25/35/50mm lens optional; Visible: 5 to 50mm motorized lens
- Detection Capabilities: Human/vehicle, smoker, smoke & flame, fire point detection
- Intelligent Analytics: Intrusion, single/double line crossing, loitering, wrong-way, people counting, enter/leave area detection
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature Monitoring & Alarm: -20°C to 150°C (-4°F to 302°F), Accuracy: ±2°C / ±2%
- Smart IR range up to 100m
- IP66

Specification

Camera	Thermal	Visible		
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	1/2.8" CMOS		
Resolution	400(H) \times 300(V) , Image can be scaled up to 704 \times 576	1920(H) × 1080(V)		
Pixel Pitch	17µm			
Spectral Range	8 to 14µm			
NETD	≤ 40mK			
Min. Illumination		Color: 0.1Lux @(F2.0, AGC ON), B/W: 0.01Lux @(F2.0, AGC ON), 0Lux with IR		
Shutter Speed		1/5 to 1/20,000s		
Lens Type	Fixed	Motorized		
Focal Length	8 mm, 15mm, 15mm, 35mm, 50mm optional	5 to 50 mm optional		
Max. Aperture	F1.0	F2.0		
Focus Control	Manual focal	Motorized focal		
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°	H: 50.85° to 7.67°, V: 27.78° to 4.36°		
IVS				
Al Multi-Target	Human and vehicle detection	Human and vehicle detection		
Intelligent Analysis	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Enter Area, Leave Area Support alarm triggering by specified target types (human and vehicle)	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Enter Area, Leave Area Support alarm triggering by specified target types (human and vehicle)		
Smoker Detection	Support			
Smoke and Flame Detection		Support		
Fire Spot Detection	Support			
People Counting	Support	Support		
Video and Audio				
Main Stream	D1 (704×576) @25/30fps	1920×1080, 1280×720 @25/30fps		
Sub Stream	CIF @25/30fps	D1, VGA, 640×360, CIF, QVGA @25/30fps		
Bit Rate Control	CBR/VBR	CBR/VBR		
Bit Rate	Main Stream: 100Kbps to 6Mbps, Sub Stream: 10Kbps to 3Mbps	Main Stream: 100Kbps to 12Mbps Sub Stream: 10Kbps to 6Mbps		
Smart Encode	Support	Support		
Audio Compression	G.711 A-law, G.711 μ-law, RAM PCM	G.711 A-law, G.711 μ-law, RAM PCM		
Image				
Image Setting	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness		
Mirror	Horizontal / Vertical / Horizontal+Vertical	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		
Gain Control		Auto / Manual	
White Balance		Auto / Tungsten / Fluorescent / Daylight / Shadow	
Day/Night		Day mode / Night mode / Time	
Noise Reduction	2D/3D DNR	2D/3D DNR	
Image Enhancement		WDR, HLC, BLC	
Wide Dynamic Range		True WDR 120dB	
OSD	Up to 8 OSD	Up to 8 OSD	
Privacy Masking	Up to 4 areas	Up to 4 areas	
Illuminator		IR Range: Up to 100 m (328.0 ft)	
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 Display	Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature		
Image Fusion	Fusion view of thermal view and overlaid details of the optical channel		
Event			
Alarm Triggers	IVS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection		
Alarm Events	Alarm out, Audio alarm, Alarm record, SMTP, FTP upload		
Network			
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, 802.1x, SNMP, Multicast		
Compatible Integration	ONVIF (Profile S/T/G/M), CGI, SDK		
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 input, 1ch output		
Alarm Interface	2ch input, 2ch output		
	1		
RS-485	1		
RS-485 Reset Button	1 Support		
Reset Button		ussian, French, Czech, Hungarian. Default: English	
Reset Button General	Support	ussian, French, Czech, Hungarian. Default: English	

Working Temperature and Humidity	-40°C to 60°C (-40°F to 140°F) Less than 90% RH
Certifications	CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN 61000-6- 3:2007+A1:2011+AC:2012, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019)) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)
Ingress Protection	IP66
Material	Metal
Dimensions	(244.8 to 274.8)×180.5×126.8 mm (9.64 to 10.82 × 7.11× 4.99 inch)
Net Weight	2.5Kg (5.51lb)
Ordering Information	
Model	Description
SN-TPC4233DJT-F8	Thermal Focal Length: 8mm, Optical Focal Length: 5 to 50mm
SN-TPC4233DJT-F15	Thermal Focal Length: 15mm, Optical Focal Length: 5 to 50mm
SN-TPC4233DJT-F15 SN-TPC4233DJT-F25	Thermal Focal Length: 15mm, Optical Focal Length: 5 to 50mm Thermal Focal Length: 25mm, Optical Focal Length: 5 to 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	8mm	15mm	25mm	35mm	50mm
Detection Distance (Humans: 1.8×0.5m)	235 m (771.7 ft)	441 m (1,446.9 ft)	734 m (2,408.1 ft)	1,028 m (3,372.7 ft)	1,469 m (4,819.6 ft)
Detection Distance (Vehicles: 4×1.4m)	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)	367 m (1,204.1 ft)
Recognition Distance (Vehicles: 4×1.4m)	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: 4×1.4m)	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 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.

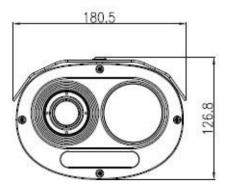
Detection Range Table					
Focal Length	8mm	15mm	25mm	35mm	50mm
Temperature Measurement (Object: 1 × 1m)	94 m (308.4 ft)	176 m (577.4 ft)	294 m (964.6 ft)	412 m (1,351.7 ft)	588 m (1,929.1 ft)
Temperature Measurement (Object: 0.2 × 0.2m)	19 m (62.3 ft)	35 m (114.8 ft)	59 m (193.6 ft)	82 m (269 ft)	118 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)

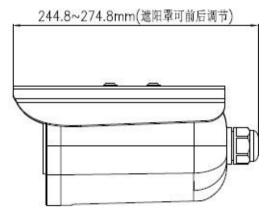
Optical DORI Range Table

Note: DORI (Detect, Observe, Recognize, and Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

DORI Distance		
Lens	5 to 50	
Detect	88 to 530 m (288.7 to 1,738.8 ft)	
Observe	35.2 to 212 m (115.5 to 695.5 ft)	
Recognize	17.6 to 106 m (57.7 to 347.8 ft)	
Identify	8.8 to 53 m (28.9 to 173.9 ft)	

Dimensions (mm)





Accessories

Optional:



SN-BK346 Wall bracket



SN-BK350 Ceiling Bracket



SN-CBK101A Pole Mount



SN-CBK102A Corner Mount

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