



# SNTPH4203DAF

**Explosion-proof Bullet Thermal Camera** 



### **Key Features**

- VOx uncooled focal plane detector with 400×300 resolution
- NETD ≤ 40mK
- 8/15/25/35/50mm fixed thermal lens optional
- Support human/vehicle detection, 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 temperature monitoring and exception alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature range: -20°C to 150°C (-4°F to 302°F), Accuracy: ±2°C / ±2%
- Material: 316L Stainless steel
- NDAA Compliance, IP68



# Specification

mage sensorMeadua Wick de Uncode la cal Plane ArraysRestutionSino si doxo la mige can be scaled up to 704/s76Pier HollSino si doxo la mige can be scaled up to 704/s76Rott ArraySino sino si and sino si and sino sino sino sino sino sino sino sino	Thermal Module	
Piel Pitch17 µnNTD440xSpectral Range16.04 µnFocusChorlFixed En (Manual focus)FocusChorlFixed En (Manual focus)Postlan RangeFiname 25 may 35 mm 30 mm 30 mm 30 mmApertureFiname 25 may 35 mm 30 mm 30 mmApertureFiname 25 may 35 mm 30 mmField of View (root)Simmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 mmSimmer 12 + 35 × 19 2 × 20 × 20 × 20 × 20 × 20 × 20 × 20 ×	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Admk           Spectral Range         340mk           Spectral Range         840mk           Focal Length         Rend Lens (Manual focus)           Somm H: Lift V: 95 (Somm: H: 25, V: 11.92")         Somm: H: 117, V: 95 (Somm: H: 117, V: 95 (Som: H: 117, V: 95 (Som: H: 117, V: 95 (Som: H: 118, V: 118) (Som: H: 118, V: 118) (Somm: H: 117, V: 95 (So	Resolution	Sensor is 400×300. Image can be scaled up to 704×576
Spectral Range8 to 14 µmFocus ControlFixed lens (Manual focus)Focus ControlRimel H (Sr) (San, 25 mm, 35 mm, 30 mmApertureFL0ApertureFL0Fieldof View (FOV)Si mm: H (Sr) (V 33.3° 15 mm: H 25.5°, V: 19.2° 25 mm: H 127, V: 9.5° 35 mm: H 127, V: 9.58°Intelligent AnalytoiHuman and Vehile detection, and Fire point detection (these functions support accurate detection of human/vehicles)People countingSuportPeople counting-00°C to 150°C (4°F to 302°F)Accuracy42°C / 2%Temperature Range-00°C to 150°C (4°F to 302°F)Accuracy150°C / 150°C (4°F to 302°F)Accuracy150°C / 25%Temperature Range-00°C to 150°C (4°F to 302°F)Accuracy20°C / 25%Temperature Range-00°C to 150°C (4°F to 302°F)Accuracy150°C / 25%Temperature Range-00°C to 150°C (4°F to 302°F)Accuracy20°C / 25%Temperature Range-00°C to 150°C (4°F to 302°F)Accuracy150°C / 25%Temperature Bisplay150°C / 25%Temperature Bisplay150°C / 25%Temperature Bisplay160°C / 25%Temperature Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature of as earge temperatureAll Steam016°C / 25%Steam016°C / 25% / 25%Steam016°C / 25% / 25%Steam016°C / 25% / 25% / 25%Steam <td< td=""><td>Pixel Pitch</td><td>17 μm</td></td<>	Pixel Pitch	17 μm
Focus ControlFixed lens (Manual focus)Focus ControlSimn, 15 mm, 25 mm, 35 mm, 50 mmApertureF1.0Field of View (Fov)Simm: 15.57, V: 15.2° 25 mm: 15.27, V: 15.2°Temperature DisplayDisplay in the lower left corner, follow the cursor display of the highest temperature, lowest temperature or average temperature 26 merature difference alarn, Threshold alarn, Temperature is alarn 27 merature difference alarn, Threshold alarn, Temperature is alarn 28 merature difference alarn, Threshold alarn, Temperature is alarn 28 merature difference alarn, Threshold alarn, Temperature is alarn 28 merature difference alarn, Threshold alarn, Temperature is al	NETD	≤ 40mK
Fold Length         Bum, 15 mm, 25 mm, 35 mm, 50 mm           Aperture         Fild           Aperture         Bum, 15 mm, 25 mm, 35 mm, 50 mm           Field of View (FOV)         Simmer 125 K, V 13 S2 Smm: H: 55 K, V 13 S2 Smm: H: 75 K	Spectral Range	8 to 14 μm
Aperture         FL0           Releved with an and vehice detection, and Fire point detection         Simm: H: 35 / Y: 13 / Simm: H: 15 / Y: Y: 15 / Simm: H: 15 / Y: Y: Y: Y: Y: Simm: H: 15 / Y: Y: Y: Y: Simm: H: 15 / Y: Y: Y: Y: Simm: H: 15 / Y: Y: Simm: H: 15 / Y: Y: Simm: H: TY: Y: Simm: Simm: H: TY: Simm: H: TY: Simm: H: TY: Simm: H: TY: Sim	Focus Control	Fixed lens (Manual focus)
Field of View (Fov)         Smm: H: 46', V: 35.3' Smm: H: 37, V: 110' Smm: H: 17, V: 90' Smm: H: 17, V: 90' Smm: H: 17, V: 58' Smm: Smm: Smm: Smm: Smm: Smm: Smm: Smm:	Focal Length	8 mm, 15 mm, 25 mm, 35 mm, 50 mm
Field of View (FOV)     Smm:H: 25,7 V: 192° Smm:H: 17, V: 5 8° Smm:H: 17, V: 5 8° Smm:H: 17, V: 5 8° Smm:H: 17, V: 5 8° Smm:H: 17, V: 5 8°       Intelligent Analytis     Human and Vehide detection, and Fire point detection       Intelligent Analysis     Support course detection of human/vehicles)       People counting     Support accurate detection of human/vehicles)       People counting     Support accurate detection of human/vehicles)       Promesture Range     20°C to 150°C (4°F to 302°F)       Accuracy     21°C 12°X       Temperature Range     21°C 12°X       Temperature Detection     1emperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).       Temperature Range     Sinsyla Hier Measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).       Temperature Display     Sinsyla Hier Measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).       Temperature Range     Sinsyla Stream: 100 where (screen follow the cursor display of the highest temperature, lowest temperature or serving temperature.       Raspona Him     Other Sca 25/30/ps       Sub Stream     If 692/30/ps       Bit Rate Contol     Sinstream: 100 kybes to 5 Mbps, Sinstream: 100	Aperture	F1.0
Smart Detection         Human and Vehicle detection, and Fire point detection           Intelligent Analysis         Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Enter area, Leave area (these functions support accurate detection of human/vehicles)           People counting         Support           Temerature Range         -20°C to 150°C (4°F to 302°F)           Accuracy         ±2°C / ±2%           Temperature Detection         Stemperature 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         bisplay in the lower left corner, follow the cursor display of the highest temperature, lowest temperature or average temperature           Response Time         04×576 @25/30fps           Sub Stream         Of4×576 @25/30fps           Bit Rate         CBR/VBR           Sub Stream         CBR/VBR           Adio Compression         G.711 A-law, G.711 µ-law, PCM           Audio Bit Rate         Off/On (8 Zone, Rectangle)           Audio Bit Rate         Poizontat, Sharpness           Main Stream: 100 Kbps to 6 Mbps, Sub stream: 100 Kbps to CMbps (S.G.711 µ-law, PCM           Audio Gompression         Gript Hess, Contrast, Sharpness           Miror         Poizontal / Vertical / Horizontal + Vertical<	Field of View (FOV)	15 mm: H: 25.5°, V: 19.2° 25 mm: H: 15.4°, V: 11.6° 35 mm: H: 11°, V: 9°
Intelligent Analysis         Intrusion, Single line crossing, Double line crossing, Loitering, Wrong way detection, Enter area, Leave area (these functions support accurate detection of human/vehicles)           People counting         Support           Support         Support accurate detection of human/vehicles)           Temperature Range         2-0°C to 150°C (-4°F to 302°F)           Accuracy         2-0°C to 150°C (-4°F to 302°F)           Temperature Range         2-0°C to 150°C (-4°F to 302°F)           Temperature Detection         3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).           Temperature Display         Bitemperature difference alarm, Threshold alarm, Temperature rise alarm           Temperature Display in the lower left corner, follow the cursor display of the highest temperature, lowest temperature or average temperature           Response Time         2 d3ms           Othersteam         Gene/Safo/Safo/Safo/Safo/Safo/Safo/Safo/Safo	Intelligent Analytics	
Intelligent Analysis         (these functions support accurate detection of human/vehicles)           People counting         Support           People counting         Support           Termen Function         Europerature Range         20°C to 150°C (4°F to 302°F)           Accuracy         22°C / 12%         Construction         Stemperature Construction <thstemperature construction<="" th="">         Stemperatu</thstemperature>	Smart Detection	Human and Vehicle detection, and Fire point 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         U           Main Stream         704x576 @25/30fps           Sub Stream         CIF @25/30fps           Bit Rate Control         CBR/VBR           Region of Interest         Off/On (8 Zone, Rectangle)           Audio Stream         G.711 A-law, G.711 µ-law, PCM           Audio Bit Rate         6 Kbps (6,711), 128 Kbps (PCM)           Image         Irightness, Contrast, Sharpness           Miror         Horizontal / Vertical / Horizontal + Vertical           Miror         Horizontal / Vertical / Horizontal + Vertical           Pseudo-color Setting         Jsub Minual	Intelligent Analysis	
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	People counting	Support
Accuracy       ±2°C / ±2%         Temperature Detection       3 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       CIF @25/30fps         Sub Stream       CIF @25/30fps         Bit Rate Control       CBR/VBR         Wain stream: 100 Kbps to 6 Mbps, Sub stream: 100 Kbps to 1.5 Mbps       Sub stream: 100 Kbps to 5 Mbps, Sub stream: 100 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 Stream       Fightness, Contrast, Sharpness         Miror       Horizontal / Vertical / Horizontal + Vertical         Pseudo-color Setting       Jup to 7.2 Colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring	Thermal Function	
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         3 30ms           Video and Audio         704×576 @25/30fps           Sub Stream         704×576 @25/30fps           Bit Rate Control         CBR/VBR           Bit Rate Control         CBR/VBR           Audio Compression         Off/On (8 Zone, Rectangle)           Audio Compression         Gr/11 A-law, G.711 µ-law, PCM           Audio Bit Rate         Disghtness, Contrast, Sharpness           Miror         Horizontal / Vertical / Horizontal + Vertical           Pseudo-color Setting         Dy to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV / Bone / Cool / Copper / Fire-hot / Pink / Spring	Temperature Range	-20°C to 150°C (-4°F to 302°F)
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	Accuracy	±2°C/±2%
Temperature Display         Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature           Response Time         < 30ms	Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Display         average temperature           Response Time         ≤ 30ms           Video and Audio         Video and Audio           Main Stream         0/4x576 @25/30fps           Sub Stream         CIF @25/30fps           Bit Rate Control         CBR/VBR           Bit Rate Control         CBR/VBR           Audio Compression         Off/On (8 Zone, Rectangle)           Audio Compression         G.711A-law, G.711 µ-law, PCM           Audio Bit Rate         Aids Stream: 10 Kbps to Shops (Souther Stream)           Image Setting         Fightness, Contrast, Sharpness           Mirror         Ariotat / 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	Temperature Alarm	
Video and Audio         Main Stream       704×576 @25/30fps         Sub Stream       CIF @25/30fps         Bit Rate Control       CBR/VBR         Bit Rate Control       CBR/VBR         Audio Stream:       0 Kbps to 6 Mbps, Sub stream:: 10 Kbps to 1.5 Mbps         Region of Interest       Off/On (8 Zone, Rectangle)         Audio Compression       G.711A-law, G.711 µ-law, PCM         Audio Bit Rate       6 Kbps (G.711), 128 Kbps (PCM)         Image Setting       Brightness, Contrast, Sharpness         Miror       Horizontal / Horizontal + Vertical         Pseudo-color Setting       Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring         FGCOntrol       Auto / Manual	Temperature Display	
Main Stream704×576 @25/30fpsSub StreamCIF @25/30fpsBit Rate ControlCBR/VBRBit Rate ControlCBR/VBRBit RateMain stream: 100 Kbps to 6 Mbps, Sub stream: 100 Kbps to 1.5 MbpsRegion of InterestOff/On (8 Zone, Rectangle)Audio CompressionG.711 A-law, G.711 µ-law, PCMImageEtagoImage SettingBrightness, Contrast, SharpnessNirrorHorizontal / Horizontal + VerticalPseudo-color SettingLyo to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV / Bone / Color / Pirk-hot / Pink / Striamer / Autumn / Winter / Jet / Flame / Rese-BengalFFCControlAuto / Manual	Response Time	≤ 30ms
Sub Stream       CIF @25/30fps         Bit Rate Control       CBR/VBR         Bit Rate       Main stream: 100 Kbps to 6 Mbps, sub stream: 100 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       6.711 A-law, G.711 µ-law, PCM         Image       Terget Network         Image Setting       Prightness, Contrast, Sharpness         Nirror       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         FFC Control       Auto / Manual	Video and Audio	
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       Tinge         Image Setting       Brightness, Contrast, Sharpness         Nirror       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         FFC Control       Auto / Manual	Main Stream	704×576 @25/30fps
Bit RateAin stream: 100 Kbps to 6 Mbps, Sub stream: 10 Kbps to 1.5 MbpsRegion of InterestOff/On (8 Zone, Rectangle)Audio CompressionG.711 A-law, G.711 µ-law, PCMAudio Bit Rate6 Kbps (G.711), 128 Kbps (PCM)ImageFighterss, Contrast, SharpnessMirrorHorizontal / Vertical / Horizontal + VerticalPseudo-color SettingUp to 17 colors (White-hot / Black-hot / Rainbow/ Iron red / HSV / Bone / Cool / Copper / Fire-hot / Pink / SpringFFC ControlAuto / Manual	Sub Stream	CIF @25/30fps
Bit Kate       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       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         FFC Control       Auto / Manual	Bit Rate Control	CBR/VBR
Audio Compression       G.711 A-law, G.711 µ-law, PCM         Audio Bit Rate       64 Kbps (G.711), 128 Kbps (PCM)         Image       Fight Rate         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         FFC Control       Auto / Manual	Bit Rate	
Audio Bit Rate       64 Kbps (G.711), 128 Kbps (PCM)         Image       Image Setting         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         FFC Control       Auto / Manual	Region of Interest	Off/On (8 Zone, Rectangle)
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	Audio Compression	G.711 A-law, G.711 μ-law, 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 / Summer / Autumn / Winter / Jet / Flame / Rose -Bengal)         FFC Control       Auto / Manual		64 Kbps (G.711), 128 Kbps (PCM)
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         FFC Control       Auto / Manual		Brightness, Contrast, Sharpness
Pseudo-color Setting     / 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
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, 1ch Alarm Out
RS-485	1ch
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	100 to 240 VAC
Power Consumption	Max 25 W
Working Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)
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	IP68
Material	SUS316L
Dimensions	464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)
Net Weight	10 kg
Ordering Information	
Model	Description
SN-TPH4203DA-F08	Focal Length: 8mm
SN-TPH4203DA-F15	Focal Length: 15mm
SN-TPH4203DA-F25	Focal Length: 25mm
SN-TPH4203DA-F35	Focal Length: 35mm
SN-TPH4203DA-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.

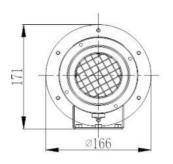
DRI Distance Table					
Focal Length	8mm	15mm	25mm	35mm	50mm
Detection Distance (Humans: 1.8×0.5m)	235 m (771.7 ft)	441 m (1,446.9 ft)	735 m (2,411.4 ft)	1,029 m (3,376.0 ft)	1,471 m (4,826.1 ft)
Detection Distance (Vehicles: 4×1.5m)	722 m (2,368.8 ft)	1,353 m (4,439 ft)	2,255 m (7,398.3 ft)	3,157 m (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)

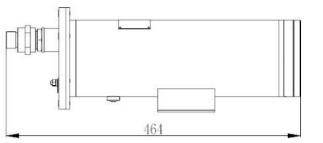
#### **Thermal Smart Detection Distance Range Table**

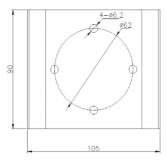
**Note**: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

Detection Range Table							
Focal Length	8mm	15mm	25mm	35mm	50mm		
VCA Detection Distance (Human: 1.8 × 0.5 m)	50 m (164.0 ft)	92 m (301.8 ft)	105 m (344.5 ft)	210 m (689.0 ft)	284 m (931.8 ft)		
VCA Detection Distance (Front/Rear of Vehicle: 4×1.5 m)	100 m (328.1 ft)	120 m (393.7 ft)	200 m (656.2 ft)	350 m (1,148.3 ft)	450 m (1,476.4 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: 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)**







SN-BK407-SS

Corner Mount

#### Accessories

**Optional:** 



SN-BK401A-SS Wall Mount



SN-BK400-SS(P/F/D) Junction Box



SN-BK406-SS Pole Mount



Flexible Tube



www.dsibenelux.nl

©2025 DSI/Sunell all rights reserved. Design and specifications are subject to change without

