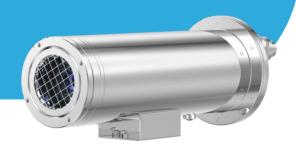




# SNTPH6406DAF

**Explosion-proof Bullet Thermal Camera** 



#### **Key Features**

- VOx uncooled focal plane detector with 640×512 resolution
- NETD ≤ 40mK
- 9/15/25/35/50mm fixed 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 3 temperature measurement rule types (spot, line, area)
- Temperature range: -20°C to 150°C (-4°F to 302°F), Accuracy:  $\pm 2$ °C /  $\pm 2$ %
- Material: 316L Stainless steel
- NDAA Compliance, IP68





# **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. (Ship Detection optional)
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

Fiver Feed Security (Processing Server) (Proce	OSD	Up to 8 OSD				
New Note   No.	Privacy Masking	Up to 4 areas				
Setection						
Network  Protocols   IPV4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP0E, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, ISMNP, SMTP, 802.1s, 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   clE11, Chrome, Firefox, Microsoft Edge   Cyber Security   Network protocols   IPv4, IPv6 USGv6, ICMP4/ICMPA6, HTTP, HTTPS 2, TLS3, HTTP/ QoS Layer 3 / Diffserv, FTP, SFTP, CTF, SMB, SMTP, DNS, (Bonjour), UPnP**, SMMP v1/22/v3 (MIB III), DNS/ONSV6, DDNS, NTP, PTP, NTS, RTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, STP, CTF, SMB, SMTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSTP, CTF, SMB, SMTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSP, RTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSP, RTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSP, RTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, DNCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSP, RTP, STP, TCP, UDP, ISMNP/A/27/3, RTCP, ICMP, PMCF-W1/V6, SSH, LLDP, CDP, MCHTV-1/S, SSP, LLDP, CDP, MCHTV-1/S, LLDP, CDP, MCHTV-1/S, LLDP, CDP, MCHTV-1/S, SSP, LLDP, CDP, MCHTV-1/S, LLDP, CDP	Alarm Triggers					
Protocols   Pr4/Pr/Re, HTTP/HTTPS, DIS, DINS, DINS, DINS, PRPPOE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPIP, FTP, SMTP, QoS, Interoperability   OWNE (Profile S/T/G/M), SDK, CGI   CMP, ISMP, SMTP, Rob.1s, SMMP, Multicast   CMP, ISMP   CMP, ISMP   SMTP, Rob.1s, SMMP, Multicast   CMP, ISMP   CMP, IS	Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output				
IcMP, IGMP, SMPP, 802.1x, SNNP, Multicast Interoperability ONVIF (Profiles S/T/GM), SDK, CGI Max Concurren 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 4E11, Chrome, Firefox, Microsoft Edge Cyber Security Network protocols IP44, IP66 USGA, ICMP4/ICMP6, HTTP, HTTPS 2, TLS3, HTTP/ QOS Layer 3 / DiffSenry, FFP, CRES/NBS, SMTP, mDNS (Gonjour), User P. ", SNNP V1/A2C/A3 (MIB III), DNS/DNSAS, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMP4/A2/A3, RTCP, ICMP, DHCP44/A5, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (REG 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)" Interface Network Interface 1 Ethernet (10/100 Base-T) R1-45 Connector Audio Interface 1 ch Audio In, 1ch Audio Out Alarm Interface 1 ch Audio In, 1ch Audio Out Alarm Interface 1 ch Audio In, 1ch Audio Out Alarm Interface 1 ch Audio In, 1ch Audio Out Alarm Interface 1 ch Audio In, 1ch Audio Out Alarm Interface 1 ch SD Card Stot 1 bugport  Central  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 to W CEF-BMC CEF-IMC CEF-CAF CEF Part 15 Subpart B Ingress Protection IP68 Material SUS316L Dimensions 464 x 166 x 171mm (18.27 x 6.54 x 6.73 inch) Net Weight 10 kg  Description SN-TPH6406DA-F95 Focal Length: 95mm SN-TPH6406DA-F95 Focal Length: 95mm SN-TPH6406DA-F35 Focal Length: 25mm SN-TPH6406DA-F35 Focal Length: 25mm SN-TPH6406DA-F35 Focal Length: 25mm	Network					
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 4:E11. Chrome, Firefox, Microsoft Edge Cyber Security Return of Streams (Inc.)	Protocols					
Security   Paddress filter, HTTPS, Illegal login lock, IEEE 802.1x	Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI				
Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x  Web Viewer < <i>IEI1, Chrome, Firefox, Microsoft Edge  Cyber Security Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS 2, TLS3, HTTP/QoS Layer 3 / DiffServ, FTP, STP, CFS/SMB, SMTP, mDNS (8an)qu1, UPn6 ° , SNMP v1/v2/v3 (MIB III), DNS/DNSv6, DUBN, NTP, PTF, NTP, STP, CFS, VBR, STRP, TCP, LUPP, IDv6/Pv1/v2/v3, RTP, ICMP, NDPV4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/S424, UDP/ICP/TLS), Link-Local address (ZeroConf)*  Interface  Network Interface 1 Ethernet (10/100 Base-T) R1-45 Connector  Audio Interface 1 1ch Audio Out  Alarm Interface 1 1ch Audio Out  Alarm Interface 1 1ch Audio Int. 1ch Audio Out  Alarm Interface 1 1ch Audio Int. 1ch Audio Out  Alarm Interface 1 1ch Audio Int. 1ch Audio Out  BS-485 1 1ch  SD Card Slot 8 Built-int, up to 512GB  Reset Button 5 Support  General  Language 5 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 4-0°-1 to 60°-1 (-40°F to 140°F), Humidity: \$90% RH (non-condensing)  CE-EMC 1 Na 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CF4 Part 1 S Subpart B  Ingress Protection IP68  Material 5 US316L  Dimensions 464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)  Net Weight 0 kg  Ordering Information  Model 6 Description  SN-TPH6406DA-F25 Focal Length: 9mm  SN-TPH6406DA-F35 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm</i>	Max Concurrent Streams	10 channels				
Web Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td="">         Cyber Security       Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS 2, TLS3, HTTP/ QoS Layer 3 / DiffServ, FTP, SFTP, CFLS/SMB, SMTP, mDNS (Bonjour), UPnP * , SNMP v1/v2c/v3 (Mill III), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGM, MP1/v2/v3, EXCEPTION, STEP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)**         Interface         Network Interface       1 Ethernet (10/100 Base-T) RU-45 Connector         Audio Interface       1 Etharin Interface         Audio Interface       1 ch Audio Out         All Damm In, 1ch Alarm Out         R5-485         1 ch         Support         Cert Slot         Built-in, up to 512GB         Reset Button         Support         Cert Slot         English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English         Power Supply       100 to 240 VAC         Power Supply       100 to 240 VAC         Power Supply       40° to 240 VAC         Power Supply       40° to 60</ie11,>	User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user				
Cyber Security     Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP 3, TLS3, HTTP/ QoS Layer 3 / DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPn * , SMMP v1/v2c/v3 (MIB III), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, CIPV, IDV, EMPv2/v2/v3, KTP, RTP, MTS, RTP, RTP, LTP, UPC, IMPv2/v2/v3, KTP, RTP, MTS, RTP, RTP, LTP, UPC, IMPv2/v2/v3, KTP, LTP, LDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)"       Interface     1 Ethernet (10/100 Base-T) RJ-45 Connector       Audio Interface     1 ch Audio In, 1ch Audio Out       Alarm Interface     1 ch Audio In, 1ch Audio Out       Alarm Interface     1 ch Audio In, 1ch Audio Out       St-485     1ch       SD Card Slot     Built-in, up to 512GB       Reset Button     Support       General     Inguage       Ianguage     English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English       Power Supphy     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)       CerteMc     -EN S03Q3, 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     Description       Model <td>Security</td> <td>IP address filter, HTTPS, Illegal login lock, IEEE 802.1x</td>	Security	IP address filter, HTTPS, Illegal login lock, IEEE 802.1x				
SFTP, CITS/SMB, SMTP, mDNS (Bonjour), UPnP * , SMMP YL/YCZ/VG (MIB II), DNS/DNSV6, DDNS, NTP, PTP, NTS, RTSP, RTP, LIPE, LIPE, KIMPLY/VZ, RTCP, LINE, DECHAY/VG, SSH, LLDP, CDP, MQTT V3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)*  Interface  Network Interface  1 Ethernet (10/100 Base-T) RI-45 Connector  Audio Interface  1 Leh Audio In, 1ch Audio Out  Alarm Interface  1 ch Audio In, 1ch Audio Out  Alarm Interface  1 ch Audio In, 1ch Audio Out  Alarm Interface  1 built-in, up to 512GB  Built-in, up to 512GB  Beset Button  2 bujport  Ceneral  Language  1 English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English  Power Supphy  10 to 240 VAC  Power Consumption  Max 25 W  Working Temperature/Humildity  40°C to 60°C (-40°F to 140°F), Humildity: ≤90% RH (non-condensing)  CE-EMC  -ENSO32, 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  P68  Material  SUS316L  Dimensions  464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)  Net Weight  10 kg  Ordering Information  N-TPH6406DA-F09  Focal Length: 15mm  SN-TPH6406DA-F25  Focal Length: 25mm  SN-TPH6406DA-F35  Focal Length: 25mm  SN-TPH6406DA-F35  Focal Length: 25mm	Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>				
Network Interface         1 Ethernet (10/100 Base-T) RJ-45 Connector           Audio Interface         1ch Audio In, 1ch Audio Out           Alarm Interface         1ch Alarm In, 1ch Alarm Out           RS-485         1ch           SD Card Slot         Built-in, up to 512GB           Reset Button         Support           Ceneral           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         -60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)           Cer 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           Material         SUSS16L           Dimensions         464 × 166 × 71 mm (18.27 × 6.54 × 6.73 inch)           Net Weight         10 kg           Ordering Information         Model           Model         Description           SN-TPH6406DA-F09         Focal Length: 15mm           SN-TPH6406DA-F25         Focal Length: 25mm           SN-TPH6406DA-F35         Focal Length: 25mm	Cyber Security	SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP *, SNMP v1/v2c/v3 (MIB II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog				
Audio Interface 1ch Audio In, 1ch Audio Out  Alarm Interface 1ch Alarm In, 1ch Alarm Out  RS-485 1ch  SD Card Slot 8uilt-in, up to 512GB  Reset Button 5upport  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)  CE-ENC CE-EN	Interface					
Alarm Interface 1ch Alarm In, 1ch Alarm Out  RS-485 1ch  D Card Slot 8uilt-in, up to 512GB  Reset Button Support  Finglish, 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)  CE-EMC -EN S5032_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  Material SUS316L  Dimensions 464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)  Net Weight 10 kg  Ordering Information  Model Description  SN-TPH6406DA-F09 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F25 Focal Length: 35mm	Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector				
RS-485 1ch  SD Card Slot 8uilt-in, up to 512GB  Reset Button Support  General  Language Inglish, 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)  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  Wodel Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 25mm	Audio Interface	1ch Audio In, 1ch Audio Out				
SD Card Slot Built-in, up to 512GB  Reset Button Support  General  Language Inglish, 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)  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-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 25mm	Alarm Interface	1ch Alarm In, 1ch Alarm Out				
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-TPH6406DA-F09       Focal Length: 9mm         SN-TPH6406DA-F15       Focal Length: 25mm         SN-TPH6406DA-F25       Focal Length: 25mm         SN-TPH6406DA-F35       Focal Length: 35mm	RS-485	1ch				
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-TPH6406DA-F09       Focal Length: 9mm         SN-TPH6406DA-F15       Focal Length: 25mm         SN-TPH6406DA-F25       Focal Length: 35mm	SD Card Slot	Built-in, up to 512GB				
LanguageEnglish, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: EnglishPower Supply100 to 240 VACPower ConsumptionMax 25 WWorking Temperature/Humidity-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)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 BIngress ProtectionIP68MaterialSUS316LDimensions464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)Net Weight10 kgOrdering InformationSN-TPH6406DA-F09Focal Length: 9mmSN-TPH6406DA-F15Focal Length: 15mmSN-TPH6406DA-F25Focal Length: 25mmSN-TPH6406DA-F35Focal Length: 35mm	Reset Button	Support				
LanguageJapanese, Korean. Default: EnglishPower Supply100 to 240 VACPower ConsumptionMax 25 WWorking Temperature/Humidity-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)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 BIngress ProtectionIP68MaterialSUS316LDimensions464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)Net Weight10 kgOrdering InformationModelDescriptionSN-TPH6406DA-F09Focal Length: 9mmSN-TPH6406DA-F15Focal Length: 15mmSN-TPH6406DA-F25Focal Length: 25mmSN-TPH6406DA-F35Focal Length: 35mm	General					
Power Consumption Max 25 W  Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  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  Wodel Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 25mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Language					
Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  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  Nodel Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Power Supply	100 to 240 VAC				
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-TPH6406DA-F09         Focal Length: 9mm           SN-TPH6406DA-F15         Focal Length: 15mm           SN-TPH6406DA-F25         Focal Length: 25mm           SN-TPH6406DA-F35         Focal Length: 35mm	Power Consumption	Max 25 W				
Certifications-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 BIngress ProtectionIP68MaterialSUS316LDimensions464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)Net Weight10 kgOrdering InformationModelDescriptionSN-TPH6406DA-F09Focal Length: 9mmSN-TPH6406DA-F15Focal Length: 15mmSN-TPH6406DA-F25Focal Length: 25mmSN-TPH6406DA-F35Focal Length: 35mm	Working Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)				
Material SUS316L  Dimensions 464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)  Net Weight 10 kg  Ordering Information  Model Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Certifications	- EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4				
Dimensions 464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)  Net Weight 10 kg  Ordering Information  Model Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Ingress Protection	IP68				
Net Weight 10 kg  Ordering Information  Model Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Material	SUS316L				
Ordering InformationModelDescriptionSN-TPH6406DA-F09Focal Length: 9mmSN-TPH6406DA-F15Focal Length: 15mmSN-TPH6406DA-F25Focal Length: 25mmSN-TPH6406DA-F35Focal Length: 35mm	Dimensions	464 × 166 × 171mm (18.27 × 6.54 × 6.73 inch)				
Model Description  SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Net Weight	10 kg				
SN-TPH6406DA-F09 Focal Length: 9mm  SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Ordering Information					
SN-TPH6406DA-F15 Focal Length: 15mm  SN-TPH6406DA-F25 Focal Length: 25mm  SN-TPH6406DA-F35 Focal Length: 35mm	Model	Description				
SN-TPH6406DA-F25 Focal Length: 25mm SN-TPH6406DA-F35 Focal Length: 35mm	SN-TPH6406DA-F09	Focal Length: 9mm				
SN-TPH6406DA-F35 Focal Length: 35mm	SN-TPH6406DA-F15	Focal Length: 15mm				
	SN-TPH6406DA-F25	Focal Length: 25mm				
SN-TPH6406DA-F50 Focal Length: 50mm	SN-TPH6406DA-F35	Focal Length: 35mm				
	SN-TPH6406DA-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.

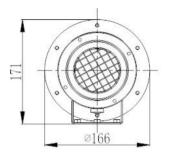
DRI Distance Table							
Focal Length	9 mm	15 mm	25 mm	35 mm	50 mm		
Detection Distance (Humans: 1.8×0.5m)	375 m (1230.3 ft)	625 m (2,050.5 ft)	1,042 m (3,418.6 ft)	1,458 m (4,783.5 ft)	2,083 m (9,196.2 ft)		
Detection Distance (Vehicles: 4×1.5m)	1,150 m (3,773 ft)	1,917 m (6,289.3 ft)	3,194 m (10,479 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)		

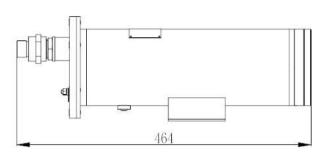
#### **Thermal Smart Detection Distance Range Table**

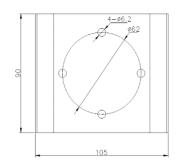
**Note**: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

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)	75 m (246.1 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: 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: 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)**







#### Accessories

#### Optional:



SN-BK401A-SS Wall Mount



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



SN-BK406-SS Pole Mount



Flexible Tube



SN-BK407-SS Corner Mount