

# **ZNT8-B1Fxx-1 Series**

# **Thermal Network Bullet Cameras**



### **Key Features**

- VOx uncooled focal plane detector with 384×288 resolution
- NETD ≤ 40mK
- 9mm, 15mm, 25mm, 35mm, and 50mm fixed lens options (xx)
- Supports human and vehicle detection, as well as smoking and fire point detection.
- Intelligent Analytics: intrusion, single line crossing, double line crossing, loitering, wrongway 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 or 0°C to 550°C
- Accuracy: ±2°C / ±2%
- Support 12VDC/24VAC/PoE power supply
- IP66
- NDAA Compliant





Thermal Module					
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays				
Resolution	Sensor is 384×288. Image can be scaled up to 1280×720				
Pixel Pitch	17 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: 37°, V: 28° 15 mm: H: 28°, V: 21° 25 mm: H: 14°, V: 11° 35 mm: H: 10°, V: 8° 50 mm: H: 7.4°, V: 5.6°				
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, 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) or 0°C to 550°C (32°F to 1022°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	1280×720, 704×576, 384×288 @25fps				
Sub Stream	704×576, 384×288, 352×240 @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				





Frivacy Masking Up to 4 areas  Event  Alarm Triggers  (IVS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection  Alarm Events  Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols  [Pv4/Pv6, HTTP/HTTPS, DNS, DONS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, Qos ICMP, ISMP, SMTP, 802.1x, SMMP, Multicast  Intercoperability  Onvile [Profile S/TCMM, SIOK, CG 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  viE11, Chrome, Firefox, Microsoft Edge  Interface  Network Interface  1 Ethernet (20/100 Base-T) RJ-45 Connector  Audio Interface  1 Addio In, 1ch Audio Out  Alarm Interface  1 th (CVBS output)  Control Interface  1 th (CVBS output)  Control Interface  1 th (CVBS output)  Control Interface  1 th (SS output)  Control Interface  1 th (SS output)  Max 4.5W  Working Temperature/Humidity  Orea 90% RB (802.3ar)  Power Consumption  Max 4.5W  Working Temperature/Humidity  Ore 90% RB (802.3ar)  Operating Humidity  Oto 90% RB (CEC (CCC 2 FCR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection  IP66  Material  Metal  Dimensions  Ordering Information  Model  Description  Power 12015 S mm  ZNT8-8115-1  Focal Length: 35 mm	OSD	Up to 8 OSD
Alarm Triggers Alarm Triggers Alarm Triggers Alarm Triggers Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output Network  **Protocols** IPAd/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP6E, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QaS iCNP, IGMP, SMTP, 802.1x, SMMP, Multicast Interoperability ONVIF (Profile S/T/G/M), SDK, Col USer/Host Level Up to 10 users, 3 levels: Administrator, Operator, Media user  **Peadores filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x  Web Viewer  **AlE11. Chrome, Firefox, Microsoft Edge Interface  **Network Interface 1 Ethernet (10/100 Base-T) R1-45 Connector  **Audio Interface 2 th Audio Int. 1ch Audio Out  **Alarm Interface 2 th Audio Int. 1ch Audio Out  **Alarm Interface 3 th Key Soutput)  **Control Interface 4 th Key Soutput)  **Control Interface 5 th Sa - 48-5  **D Card Slot 5 Built-In, up to 1TB  **Reset Button 5 Support  **General  **Language **English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Default: English  **Power Supply 1 2VDC/ZAVAC/PoE (802.3af)  **Power Supply 2 CE-10K (EIN S5022-2015-A12-2020, EN 5035-2017-A11-2020, EN 50130-4-2011-A11-2014, EN IEC 61000-6-3-2019-Na1-2021, EN 61000-3-3-2013-A22-2021  **CC-10K (EIN S5022-2015-A12-2020, EN 5035-2017-A11-2020, EN 50130-4-2011-A11-2014, EN IEC 61000-6-3-2015-A12-2021, EN 61000-3-3-2013-A22-2021  **Poc Control Information  **Model **Description  **Description  **Dock (10 Length: 9 mm  ZNTB-81F15-1  **Focal Length: 9 mm  ZNTB-81F15-1  **Focal Length: 35 mm		
Alarm Triggers  NS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection Alarm Events  Alarm Events  Alarm Events  Alarm Events  Alarm Events  Network  Protocols  IP-4/IP-06, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, FTP, SMTP, QoS (CMP, IGMP, SMTP, 802.1x, SNMP), Multicast Interoperability  ONUP (Profile S/T/G/M), SDK, CGI  User/Host Level  Up to 10 users, 3 levels: Administrator, Operator, Media user  Security  Paddress filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x  Web Viewer  Alt. Chrome, Firefox, Microsoft Edge  Interface  Network Interface  1 Ethernet (10/100 Base-T) RJ-45 Connector  Audio Interface  1 Andio Int. 1ch Audio Out  Alarm Interface  1 Aharm Interface  2 Aharm Interface  3 Diventification  5 Diventification  4 Diventification		op to 4 incus
Alarm Events Alarm Events Alarm contection Network  Protocols  IPA4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP0E, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS (LNP, 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  Veb Viewer  - IEE1, Chrome, Firefox, Microsoft Edge Interface  Network Interface 1 Ethernet (10/100 Base-T) RJ-45 Connector  Audio Interface 2 th Audio In, 1ch Audio Out Alarm Interface 2 th Alarm In, 2ch Alarm Out Block Interface 1 th CCVBS output) Control Interface 1 th RS-485 SD Card Slot Built-in, up to 1TB Reset Button Support  General  Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Crech, Hungarian, Default: English Power Supply 12VDC/24VAC/PoE (802.3aft) Power Consumption Max 4.5W Working Temperature/Humidity -40° to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) Operating Humidity  CE-EMC (EN S5032:2015-A1:2020, EN S5035:2017-A11:2020, EN S0130-4:2011-A1:2014, EN IEC 61000-6- 20201, EN IEC 61000-3-2:2019-A1:2021, EN 61000-3-3:2013-A2:2021 FCC (FCC A7 CRR 15, Subpart B, ANSI C63,4-2014) Ingress Protection Ingress Protection  Material Metal Dimensions - \$\frac{1}{2} \text{ Cap CR CA7 CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CR CA7 CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CR CA7 CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CR CA7 CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CR CA7 CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \text{ Cap CRR 15} \text{ Subpart B, ANSI C63,4-2014}  Power Veight - \$\frac{1}{2} \		
Protocols IPA4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, 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 IPA Comment (10/100 Base-1) RJ-45 Connector  Network Interface 1 themset (10/100 Base-1) RJ-45 Connector  Network Interface 2 the Audio In, 1ch Audio Out  Alarm Interface 1 th Audio In, 1ch Audio Out  Alarm Interface 2 th Alarm In, 2ch Alarm Out  BINC Interface 1 th RS-485  SD Card Slot Built-in, up to 1TB  Reset Button Support  General  Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Power Supply 12VDC/24VAC/PDE (802.3srf)  Power Consumption Max 4.5W  Working Temperature/Humidity 40°C to 60°C (-40°F to 140°F), Humidity: 590% RH (non-condensing)  Operating Humidity 0 to 90% RH  Certifications 2:2011, RNIEC 61000-3-2:2019+A1:2020, EN 5033-2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-3:2021, EN IEC 61000-6-3:2021, EN IEC 61000-3-3:2021, EN IEC 61000-3-3:2021		
Protocols   IPv4/IPv6, HTTP/HTTP5, DNS, DDNS, DHCP, PPP0E, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, FTP, SMTP, QOS (ICMP, ICMP, SMTP, 802 12, SNNP, Multicast (ICMP, ICMP, SMTP, SMTP, SMTP, SMTP, ICMP, SMTP, ICMP, SMTP, ICMP, IC		Alaim Tecord, Alaim output, FTF upload, SiviTF upload, Addible alaim output
Interoperability ONVIF (Profile ST/TG/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		IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS,
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 <	Protocols	ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Security IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x  Web Viewer <  1	Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Web Viewer         < E11, Chrome, Firefox, Microsoft Edge	User/Host Level	Up to 10 users, 3 levels: Administrator, Operator, Media user
Network Interface  Network Interface  1 Ethernet (10/100 Base-T) RJ-45 Connector  Audio Interface  1 ch Audio In, 1ch Audio Out  Alarm Interface  2 ch Alarm In, 2ch Alarm Out  BNC Interface  1 ch (CVBS output)  Control Interface  1 ch RS-485  SD Card Slot  Built-in, up to 1TB  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 4.5W  Working Temperature/Humidity  40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity  0 to 90% RH  CE-EMC (EN S5032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-32:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  Ingress Protection  IP66  Material  Metal  Dimensions  ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight  1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model  Description  Model  Description  Model  Description  AUM 1.55 mm  ZNT8-B1F15-1  Focal Length: 25 mm  ZNT8-B1F35-1  Focal Length: 25 mm  ZNT8-B1F35-1  Focal Length: 35 mm	Security	IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x
Network Interface         1 Ethernet (10/100 Base-T) RJ-45 Connector           Audio Interface         1 ch Audio In, 1ch Audio Out           Alarm Interface         2 ch Alarm In, 2ch Alarm Out           BNC Interface         1 ch (CVBS output)           Control Interface         1 ch RS-485           SD Card Slot         Built-in, up to 1TB           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 4.5W           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         2:2021, EN IEC 61000-3-2:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-3:2019+A1:2021, EN 161000-3-3:2013+A2:2021)           Ingress Protection         IP66           Material         Metal           Dimensions         ф120.5 × 315.9 ° 352.6 mm (ф4.74" × 12.44" ~ 13.88")           Net Weight         1.62 kg (3.57 lb) with 9mm lens           Ordering Information           Model         Description           Model	Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>
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 1TB  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 4.5W  Working Temperature/Humidity  0 to 90% RH  Certifications  CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3:2:2019+A1:2021, EN 61000-3:2:2013+A2:2021)  Ingress Protection  IP66  Material  Metal  Dimensions  ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight  1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model  Description  Model  Description  ENSIAN BIF19-1  Focal Length: 15 mm  ZNT8-BIF15-1  Focal Length: 25 mm  ZNT8-BIF15-1  Focal Length: 25 mm  ZNT8-BIF15-1  Focal Length: 25 mm  ZNT8-BIF25-1  Focal Length: 25 mm  ZNT8-BIF35-1  Focal Length: 25 mm	Interface	
Alarm Interface 2ch Alarm In, 2ch Alarm Out  BNC Interface 1ch (CVBS output)  Control Interface 1ch RS-485  SD Card Slot 8uilt-in, up to 1TB  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 4.5W  Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity 0 to 90% RH  CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection IP66  Material Metal  Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight 1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model Description  Model Description  ENTR-B1F19-1 Focal Length: 9 mm  ZNT8-B1F19-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 25 mm	Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
BNC Interface         1ch (CVBS output)           Control Interface         1ch RS-485           SD Card Slot         Bullt-in, up to 1TB           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 4.5W           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         3:201, EN IEC 61000-3-2:2015+A1:2020, EN 55035:2017+A11:2020, EN 55130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-3:2013+A2:2021)           Certifications         1P66           Material         Metal           Dimensions         ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")           Net Weight         1.62 kg (3.57 lb) with 9mm lens           Ordering Information         Model           Model         Description           ZNT8-B1F99-1         Focal Length: 15 mm           ZNT8-B1F25-1         Focal Length: 25 mm           ZNT8-B1F35-1         Focal Length: 35 mm	Audio Interface	1ch Audio In, 1ch Audio Out
Control Interface  1ch RS-485  SD Card Slot  Built-in, up to 1TB  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 4.5W  Working Temperature/Humidity  -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity  0 to 90% RH  CE-EMC (EN S5032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection  IP66  Material  Metal  Dimensions  ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight  1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model  Description  ZNT8-B1F9-1  Focal Length: 9 mm  ZNT8-B1F5-1  Focal Length: 25 mm  ZNT8-B1F25-1  Focal Length: 25 mm  ZNT8-B1F25-1  Focal Length: 25 mm  ZNT8-B1F35-1  Focal Length: 35 mm	Alarm Interface	2ch Alarm In, 2ch Alarm Out
SD Card Slot Bullt-in, up to 1TB  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 4.5W  Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity 0 to 90% RH  CE-EMC (EN S5032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN 16C 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection IP66  Material Metal  Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight 1.62 kg (3.57 lb) with 9mm Iens  Ordering Information  Wodel Description  ZNT8-B1F9-1 Focal Length: 9 mm  ZNT8-B1F9-1 Focal Length: 25 mm  ZNT8-B1F5-1 Focal Length: 25 mm  ZNT8-B1F5-1 Focal Length: 25 mm  ZNT8-B1F5-1 Focal Length: 35 mm	BNC Interface	1ch (CVBS output)
Reset Button  General  Language English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Power Supply 12VDC/24VAC/PoE (802.3af)  Power Consumption Max 4.5W  Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity 0 to 90% RH  CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection IP66  Material Metal  Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight 1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model Description  ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Control Interface	1ch RS-485
English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Power Supply 12VDC/24VAC/PoE (802.3af) Power Consumption Max 4.5W Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing) Operating Humidity 0 to 90% RH CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) Ingress Protection IP66 Material Metal Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88") Net Weight 1.62 kg (3.57 lb) with 9mm lens Ordering Information  Model Description ZNT8-B1F09-1 Focal Length: 9 mm ZNT8-B1F25-1 Focal Length: 25 mm ZNT8-B1F35-1 Focal Length: 35 mm	SD Card Slot	Built-in, up to 1TB
English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English Power Supply 12VDC/24VAC/PoE (802.3af)  Power Consumption Max 4.5W  Working Temperature/Humidity 0 to 90% RH  CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection IP66  Material Metal Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74" × 12.44" ~ 13.88")  Net Weight 1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model Description  ZNT8-B1F09-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  Focal Length: 25 mm  Focal Length: 35 mm	Reset Button	Support
Power Supply 12VDC/24VAC/PoE (802.3af)  Power Consumption Max 4.5W  Working Temperature/Humidity -40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)  Operating Humidity 0 to 90% RH  CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)  FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection IP66  Material Metal  Dimensions ф120.5 × 315.9 ~ 352.6 mm (ф4.74″ × 12.44″ ~ 13.88″)  Net Weight 1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model Description  ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F15-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 25 mm	General	
Power Consumption         Max 4.5W           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+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)           Ingress Protection         IP66           Material         Metal           Dimensions         ф120.5 × 315.9 ~ 352.6 mm (ф4.74″ × 12.44″ ~ 13.88″)           Net Weight         1.62 kg (3.57 lb) with 9mm lens           Ordering Information           Model         Description           ZNT8-B1F09-1         Focal Length: 9 mm           ZNT8-B1F15-1         Focal Length: 15 mm           ZNT8-B1F25-1         Focal Length: 25 mm           ZNT8-B1F35-1         Focal Length: 35 mm	Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
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+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)         FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)         Ingress Protection       IP66         Material       Metal         Dimensions       φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")         Net Weight       1.62 kg (3.57 lb) with 9mm lens         Ordering Information       Model         ZNT8-B1F09-1       Focal Length: 9 mm         ZNT8-B1F15-1       Focal Length: 15 mm         ZNT8-B1F25-1       Focal Length: 25 mm         ZNT8-B1F35-1       Focal Length: 35 mm	Power Supply	12VDC/24VAC/PoE (802.3af)
Operating Humidity         0 to 90% RH           CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)           FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)           Ingress Protection         IP66           Material         Metal           Dimensions         φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")           Net Weight         1.62 kg (3.57 lb) with 9mm lens           Ordering Information         Model           ZNT8-B1F09-1         Focal Length: 9 mm           ZNT8-B1F15-1         Focal Length: 15 mm           ZNT8-B1F25-1         Focal Length: 25 mm           ZNT8-B1F35-1         Focal Length: 35 mm	Power Consumption	Max 4.5W
CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)  Ingress Protection  IP66  Material  Metal  Dimensions  \$\phi 120.5 \times 315.9 \simps 352.6 \text{ mm } (\phi 4.74" \times 12.44" \simps 13.88")  Net Weight  1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model  Description  ZNT8-B1F09-1  Focal Length: 9 mm  ZNT8-B1F15-1  Focal Length: 15 mm  ZNT8-B1F25-1  Focal Length: 25 mm  Focal Length: 35 mm	Working Temperature/Humidity	-40°C to 60°C (-40°F to 140°F), Humidity: ≤90% RH (non-condensing)
Certifications       3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)         FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)         Ingress Protection       IP66         Material       Metal         Dimensions       φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")         Net Weight       1.62 kg (3.57 lb) with 9mm lens         Ordering Information         Model       Description         ZNT8-B1F09-1       Focal Length: 9 mm         ZNT8-B1F15-1       Focal Length: 15 mm         ZNT8-B1F25-1       Focal Length: 25 mm         ZNT8-B1F35-1       Focal Length: 35 mm	Operating Humidity	0 to 90% RH
Material       Metal         Dimensions       φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")         Net Weight       1.62 kg (3.57 lb) with 9mm lens         Ordering Information         Model       Description         ZNT8-B1F09-1       Focal Length: 9 mm         ZNT8-B1F15-1       Focal Length: 15 mm         ZNT8-B1F25-1       Focal Length: 25 mm         ZNT8-B1F35-1       Focal Length: 35 mm	Certifications	3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021)
Dimensions       φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")         Net Weight       1.62 kg (3.57 lb) with 9mm lens         Ordering Information       Description         ZNT8-B1F09-1       Focal Length: 9 mm         ZNT8-B1F15-1       Focal Length: 15 mm         ZNT8-B1F25-1       Focal Length: 25 mm         ZNT8-B1F35-1       Focal Length: 35 mm	Ingress Protection	IP66
Net Weight 1.62 kg (3.57 lb) with 9mm lens  Ordering Information  Model Description  ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F15-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Material	Metal
Ordering Information  Model Description  ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F15-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Dimensions	φ120.5 × 315.9 ~ 352.6 mm (φ4.74" × 12.44" ~ 13.88")
Model Description  ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F15-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Net Weight	1.62 kg (3.57 lb) with 9mm lens
ZNT8-B1F09-1 Focal Length: 9 mm  ZNT8-B1F15-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Ordering Information	
ZNT8-B1F15-1 Focal Length: 15 mm  ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	Model	Description
ZNT8-B1F25-1 Focal Length: 25 mm  ZNT8-B1F35-1 Focal Length: 35 mm	ZNT8-B1F09-1	Focal Length: 9 mm
ZNT8-B1F35-1 Focal Length: 35 mm	ZNT8-B1F15-1	Focal Length: 15 mm
	ZNT8-B1F25-1	Focal Length: 25 mm
ZNT8-B1F50-1 Focal Length: 50 mm	ZNT8-B1F35-1	Focal Length: 35 mm
	ZNT8-B1F50-1	Focal Length: 50 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	9 mm	15 mm	25 mm	35 mm	50 mm		
Detection Distance (Humans: 1.8×0.5m)	265 m (869.4 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)	812 m (2,664 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)	66 m (216.5 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)	203 m (666 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)	33 m (108.3 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)	101 m (331.4 ft)	169 m (554.5 ft)	282 m (925.2 ft)	395 m (1,296 ft)	564 m (1,850.4 ft)		

# **Thermal IVS Distance Range Table**

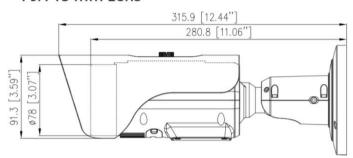
**Note**: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

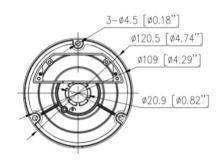
Detection Range Table							
Focal Length	9 mm	15 mm	25 mm	35 mm	50 mm		
Temperature Measurement (Object: 0.2 × 0.2m)	21 m (68.9 ft)	35 m (114.8 ft)	59 m (193.6 ft)	82 m (269 ft)	118 m (616.8 ft)		
Fire Detection (Object: 1 × 1m)	265 m (869.4 ft)	441 m (1,446.9 ft)	735 m (2,411.4 ft)	1,029 m (3,376 ft)	1,471 m (4,826.1 ft)		
Fire Detection (Object: 0.2 × 0.2m)	53 m (173.9 ft)	88 m (288.7 ft)	147 m (482.3 ft)	206 m (675.9 ft)	294 m (964.6 ft)		



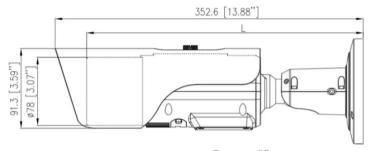
# **Dimensions (mm)**

#### F9/F15 mm Lens





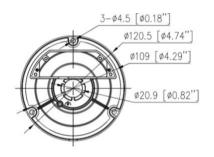
#### F25/F35/F50 mm Lens



f50 L=316.5mm[12.46"]

f35 L=305.3mm[12.02"]

f25 L=296.8mm[11.69"]



### **Accessories**

### **Optional:**







ZA8-CBK645G

ZA8-CBK101A

ZA8-CBK102A