

# Thermal & Optical Bi-spectrum Network Dome Camera TIC3612SA-F7-4F6AC-I1





#### **Features**

- · Thermal & optical dual-spectrum image, dual video with single IP address, adaptable to various scenes
- 1/2.8" target surface, high sensitivity sensor, suitable for starlight monitoring
- Thermal module supports reliable fire detection, and fire shield area
- Thermal module supports temperature detection and cold&hot spot tracking, which highlights abnormal temperatures and links to alarm
- Thermal & optical dual-spectrum smart intrusion prevention can be enabled simultaneously: cross line, enter area, leave area, intrusion
- · Optical module supports smog recognition, which can help with fire alarm reconfirmation
- · Supports picture-in-picture mode, real-time contrast live, more convenient and clear
- · Supports audio and light alarm, with red and blue warning lights built in
- Ultra 265, H.265, H.264, MJPEG
- Max 2688 × 1520@30 fps in the optical module and max 960P@30 fps in the thermal module
- DC 12 V ± 25% or PoE power supply
- Alarm 2 in and 2 out, audio 1 in and 1 out, micro SD, up to 512 GB

### **Specifications**

Channel	Optical	Thermal
Camera		
Sensor	1/2.8" CMOS	Vanadium oxide uncooled focal plane arrays

1



Min. Illumination	Colour: 0.003 lux (F1.6, AGC ON)	N/A				
MIII. IIIuIIIIIauoii	B/W: 0.002lux(F1.6,AGC ON)0 lux with IR	IN/A				
Day/Night	IR-cut filter with auto switch (ICR)	N/A				
NETD	< 50 mk@F1.0@25 ℃					
Shutter	Auto/Manual, 1 to 1/100000 s					
WDR	120 dB					
S/N	>56 dB					
Lens						
Focal Length	6.0 mm 7.0 mm					
Iris	F1.6	F1.0				
Field of View (H)	49.1°	25.2°				
Field of View (V)	26.9°	19.3°				
Field of View (D)	60.4°	31°				
DORI						
DORI Distance (Detect)	135.0m(442.9ft)	N/A				
DORI Distance (Observe)	54.0m(177.2ft)	N/A				
DORI Distance (Recognize)	27.0m(88.6ft)	N/A				
DORI Distance (Identify)	13.5m(44.3ft)	N/A				
Illuminator						
Wavelength	750 nm	N/A				
Illumination Distance (IR)	30m	N/A				
Light On/Off Control	Auto/Manual N/A					
Video	Video					
Frame Rate	4MP(2688*1520), Max 30fps 960P(1280*960), Max 30fps					
Video Compression	Ultra 265, H.265, H.264, MJPEG					
Video Bit Rate	128 Kbps to 16 Mbps					
U-code	Support					
ROI	Support					
Video Stream	Triple streams					
OSD	Up to 8 OSDs					
Privacy Mask	Up to 8 areas (8 blacks/ 8 mosaics)	N/A				
Image						
Digital Noise Reduction	2D/3D DNR					
Defog	Digital defog	N/A				
		lava, medical, arctic, mazarine, fusion, rain,				
		puce, white hot, iron oxide red, hot iron,				
Palette	N/A	rainbow 1, rainbow 2, rainbow 3, depict hot,				
		ice hot, black hot, red hot, green hot, color 1,				
		color 2				
Intelligent						



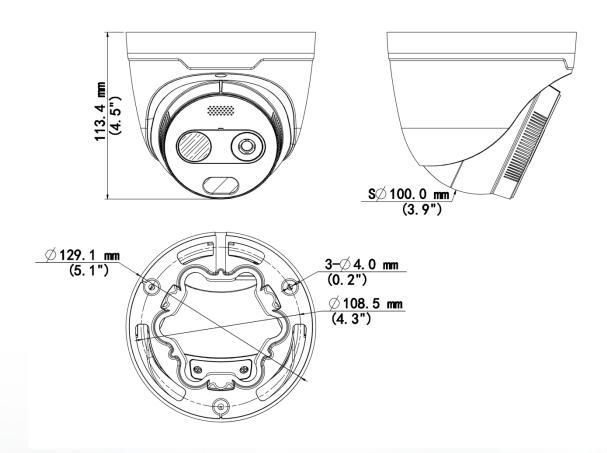
Smart Intrusion Prevention  Smart Intrusion Prevention  Smart Intrusion Prevention  Smart Intrusion Prevention  Support Support false alarm filtering and the classification of human, non-motor vehicle and vehicle)  Smoke Detection  Support  Motion detection, Tampering alarm, Audio detection, Tampering alarm, Audio detection  Matermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HITTP authentication, Alarm input, Alarm output  Audio Compression  G.711U, G.711A  Audio Bitrate  128 kbps  Two-way Audio  Support  Sup					
Smark Intrusion Prevention and vehicle and vehicle)  Support N/A  Temperature Measurement Accuracy  Temperature Range Support			Cross line detection, intrusion detection, enter		
Smoke Detection         Support         N/A           Temperature Measurement Accuracy         send C (±14.4 °F) or ±8% (whitchever is greater)           Temperature Range         Selectable between -20 °C to 150 °C (-4 °F to 300 °F) and 100 °C to 550 °C (212 °F to 1022 °F)           Events         ************************************	Smart Intrusion Prevention				
Smoke Detection         Support         N/A           Temperature Measurement Accuracy         28 °C (±14.4 °F) or ±8% (whichever is greater)           Temperature Range         Selectable between -20 °C to 150 °C (±12 °F to 1022 °F)           Free Detection         N/A         Support           Basic Detection         Motion detection, Tampering alarm, Audio detection         Support           Basic Detection         Motion detection, Tampering alarm, Audio attention, Alarm input, Alarm output           Audio         Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output           Audio         Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, Alarm input, Alarm output           Audio Ompression         G.7110, G.711A           Audio Bitrate         128 kbps           Support         Support           Support					
Temperature Measurement Accuracy  Temperature Range  Temperature Rang					
Accuracy         #26 °C (±14.4 °F) or ±876 (whichever is greater)           Temperature Range         Selectable between -20 °C to 150 °C (±4 °F to 302 °F) and 100 °C to 550 °C (±12 °F to 1022 °F)           Events         F           Fire Detection         N/A         Support           Basic Detection         Motion detection, Tampering alarm, Audio detection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output         Audio Compression         G.7110, G.711A           Audio Osmpression         G.7110, G.711A         Audio Sitrate         128 kbps           Two-way Audio         Support         Support           Support         Support         Sampling Rate         16KHZ           Storage         MicroSD, up to 512 GB         Very Compatible Integration         NIP, FTP, UPNP, HTTP, HTTPS, 802.1x, SMMP, QoS, SSL/TLS, SSH           Compatible Integration         ONVF (Profile S, Profile G, Profile T), API, SDK         User/Host         Up to 32 users. 3 user levels: administrator, commore and operator           Client         EZStation, UNV-Link, UNV-Link Pro         Web Browser         Plug-in required live view: IE 10+, Chrome 45+, Fefage 79+         Huterface           Built-in Speaker         Support         Jupin required live view: IE 10+, Chrome 45+, Fefage 79+         Huterface           Built-in Mic         Support         Jupin required live view: IE 10+, Chrome		Support N/A			
Temperature Range  Repeature Repeature Range		±8 °C (±14.4 °F) or ±8% (whichever is greater)			
Temperature Range       a 02 °F) and 100 °C to 550 °C (212 °F to 1022 °F) esterior         Events         Fire Detection       N/A         Basic Detection       Motion detection, Tampering alarm, Audio detection       N/A         Basic Detection       Motion detection, Provided the detection of the detection of the detection of the detection of the detection, Alarm input. Alarm output         Audio         Audio Compression       G.711U, G.711A         Audio Strate       128 Kbps         Two-way Audio       Support	Accuracy				
F)           Events           Fire Detection         N/A         Support           Basic Detection         Motion detection, Tampering alarm, Audio detection         N/A           General Function         Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output           Audio         Audio formerssion         G.711U, G.711A           Audio Bitrate         128 Kbps         ————————————————————————————————————					
Events  Fire Detection N/A Support  Basic Detection M/A Motion detection, Tampering alarm, Audio detection  General Function Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output  Audio  Audio Compression G.711U, G.711A  Audio Bitrate 128 Kbps  Two-way Audio Support  Sampling Rate 16KHZ  Storage MicroSD, up to 512 GB  Network Storage ANR  Network  Protocols IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPPP, HTTP, HTTPS, 802.1x, SMMP, QoS, SSL/TLS, SSH  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK  User/Host Up to 32 users. 3 user levels: administrator, common user and operator  Client EZStation, UNN-Link, UNN-Link Pro  Web Browser Plug-in required live view: IE 10+, Chrome 45+, Fire S2+, Edge 79+  Interface  Built-in Mic Support  Built-in Speaker Support  Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], I ∪utput: impedance 600 Ω, amplitude 2 V [p-p]  Alarm I/O 2/2  Serial Port 1 × R\$485  Network 2 NA S I BNC (for debugging)	Temperature Range				
Fire Detection         N/A         Support           Basic Detection         Motion detection, Tampering alarm, Audio detection         N/A           General Function         Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output           Audio         Audio Compression         G.711U, G.711A           Audio Bitrate         128 Kbps         ————————————————————————————————————		<sup>™</sup> F)			
Basic Detection       Motion detection, Tampering alarm, Audio detection       N/A         General Function       Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output         Audio       Audio Compression       G.711U, G.711A         Audio Bitrate       128 kbps         Two-way Audio       Support         Suppression       Support         Sampling Rate       16KHZ         Storage       MicroSD, up to 512 GB         Network Storage       ANR         Network Storage       ANR         Network Storage       ANR         Protocols       IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPDE, RTSP, RTCP, RTMP, DNS, DNS, NTP, FTP, UPNP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p		100			
Basic Detection       detection       N/A         General Function       Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output         Audio       Audio Compression       G.711U, G.711A         Audio Bitrate       128 Kbps         Two-way Audio       Support         Suppression       Support         Sampling Rate       16KHZ         Storage         Network Storage       MicroSD, up to 512 GB         Network Storage       ANR         NTP, FTP, UPNP, HTTP, SAD, INNP, APP, TCP, UDP, DHCP, PPDE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPNP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration         ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface       Built-in Speaker       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V[p-p], 1 Output: impedance 600 Ω, amplitude 2 V[p-p]         Alarm I/O       2/2	Fire Detection	·	Support		
General Function       Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output         Audio         Audio Compression       G.711U, G.711A         Audio Sitrate       128 Kbps         Two-way Audio       Support         Supports         Supports         Supports         Supports         Supports         Supports         Supports         Supports         Supports         MicroSD, up to 512 GB         Network Storage       MicroSD, up to 512 GB         Network         Protocols       IGMP, RTP, SMTP, IPV4, IPV6, ICMP, ARP, TCP, UDP, DHCP, PPPE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UDP, PHTPP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up 5 2 Search, SMTP, FTP, UDP, DHCP, PPPE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UDP, DHCP, PPPE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UDP, DHCP, PPPE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UDP, DHCP, PPPE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, PSP, SDN, SSL/TLS,	Basic Detection		N/A		
Audio   Audio Compression G.711U, G.711A   Audio Bitrate 128 Kbps   Two-way Audio Support   Sampling Rate 16KHZ   Storage MicroSD, up to 512 GB   Network Storage ANR   Network Storage ANR   Network Storage IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPPP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH   Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK   User/Host Up to 32 users. 3 user levels: administrator, common user and operator   Client EZStation, UNV-Link, UNV-Link Pro   Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+   Interface Built-in Speaker   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × RS485   Network 1 × RJ45 10 M/100 M Base-TX Ethernet   Video Output N/A 1 BNC (for debugging)   General   Power DC12V(±25%), PoE(IEEE802.3af)					
Audio Compression G.711U, G.711A   Audio Bitrate 128 Kbps   Two-way Audio Support   Sampling Rate 16KHZ   Storage MicroSD, up to 512 GB   Network Storage ANR   Network Storage ANR   Network Storage AIGMP, RTP, SMTP, IPV4, IPV6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPNP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH   Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK   User/Host Up to 32 users. 3 user levels: administrator, comon user and operator   Client EZStation, UNV-Link, UNV-Link Pro   Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+   Interface   Built-in Mic Support   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × R5485   Network 1 × R5485	General Function				
Audio Compression Audio Bitrate  128 kbps  Two-way Audio Support  Support  Support  Sampling Rate 16kHZ  Storage  Edge Storage MicroSD, up to 512 GB  Network Storage  ANR  Network  Protocols  IGMP, RTP, SMTP, IPV4, IPV6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPNP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH  Compatible Integration ONVIF (Profile S, Profile T), API, SDK  User/Host Up to 32 users. 3 user levels: administrator, common user and operator Client EZStation, UNV-Link, UNV-Link Pro  Web Browser Plusy-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ Interface  Built-in Speaker Support  Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p] Alarm I/O 2/2  Serial Port 1 × R5485 Network 1 × RJ45 10 M/100 M Base-TX Ethernet Video Output N/A 1 ENC (for debugging)  General Power  DC12V(±25%), PoE(IEEE802.3af)		authentication, HTTP authentication, Alarm input, Alarm output			
Audio Bitrate 128 Kbps   Two-way Audio Support   Suppression Support   Sampling Rate 16KHZ   Storage   Edge Storage MicroSD, up to 512 GB   Network Storage ANR   Network   Protocols IGMP, RTP, SMTP, IPV4, IPV6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH   Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK   User/Host Up to 32 users. 3 user levels: administrator, common user and operator   Client EZStation, UNV-Link, UNV-Link Pro   Web Browser Plug-in required live view: IE 10+, Chrome 45+, Fire 52+, Edge 79+   Interface   Built-in Mic Support   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × RS485   Network 1 × RS485   Network 1 × RJ45 10 M/100 M Base-TX Ethernet   Video Output N/A 1 BNC (for debugging)   General   Power DC12V(±25%), PoE(IEEE802.3af)					
Two-way Audio Support   Suppression Support   Sampling Rate 16KHZ   Storage MicroSD, up to 512 GB   Network Storage ANR   Network IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH   Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK   User/Host Up to 32 users. 3 user levels: administrator, common user and operator   Client EZStation, UNV-Link, UNV-Link Pro   Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+   Interface Built-in Mic   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × R5485   Network 1 × RJ45 10 M/100 M Base-TX Ethernet   Video Output N/A 1 BNC (for debugging)   General   Power DC12V(±25%), PoE(IEEE802.3af)	·				
Suppression       Support         Sampling Rate       16KHZ         Storage         Edge Storage       MicroSD, up to 512 GB         Network Storage       ANR         Network         IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port       1 x R5485         Network       1 x RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General         Power       DC12V(±25%), PoE(IEEE802.3af)		·			
Sampling Rate 16KHZ  Storage  Edge Storage MicroSD, up to 512 GB  Network Storage ANR  Network  Protocols IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK  User/Host Up to 32 users. 3 user levels: administrator, commuser and operator  Client EZStation, UNV-Link, UNV-Link Pro  Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+  Interface  Built-in Mic Support  Built-in Speaker Support  Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]  Alarm I/O 2/2  Serial Port 1 × RS485  Network 1 × RJ45 10 M/100 M Base-TX Ethernet  Video Output N/A 1 BNC (for debugging)  General  Power DC12V(±25%), PoE(IEEE802.3af)	-				
StorageEdge StorageMicroSD, up to 512 GBNetwork StorageANRNetworkIGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSHCompatible IntegrationONVIF (Profile S, Profile G, Profile T), API, SDKUser/HostUp to 32 users. 3 user levels: administrator, common user and operatorClientEZStation, UNV-Link, UNV-Link ProWeb BrowserPlug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+InterfaceBuilt-in MicSupportBuilt-in SpeakerSupportAudio I/O1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]Alarm I/O2/2Serial Port1 × RS485Network1 × RJ45 10 M/100 M Base-TX EthernetVideo OutputN/A1 BNC (for debugging)GeneralPowerDC12V(±25%), PoE(IEEE802.3af)					
Edge StorageMicroSD, up to 512 GBNetwork StorageANRNetworkIGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSHCompatible IntegrationONVIF (Profile S, Profile G, Profile T), API, SDKUser/HostUp to 32 users. 3 user levels: administrator, common user and operatorClientEZStation, UNV-Link, UNV-Link ProWeb BrowserPlug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+InterfaceBuilt-in MicSupportBuilt-in SpeakerSupportAudio I/O1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]Alarm I/O2/2Serial Port1 × RS485Network1 × RJ45 10 M/100 M Base-TX EthernetVideo OutputN/A1 BNC (for debugging)GeneralPowerDC12V(±25%), PoE(IEEE802.3af)		16KHZ			
Network Storage       ANR         Network         IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port       1 × RS485         Network       1 × RS485         Network       1 × RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General         Power       DC12V(±25%), PoE(IEEE802.3af) <td>_</td> <td></td> <td></td>	_				
Network         Protocols       IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port       1 × RS485         Network       1 × RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General         Power       DC12V(±25%), PoE(IEEE802.3af)		MicroSD, up to 512 GB			
Protocols       IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port       1 × RS485         Network       1 × RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General       DC12V(±25%), PoE(IEEE802.3af)	Network Storage	ANR			
Protocols       NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API, SDK         User/Host       Up to 32 users. 3 user levels: administrator, common user and operator         Client       EZStation, UNV-Link, UNV-Link Pro         Web Browser       Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+         Interface       Built-in Mic         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port       1 × RS485         Network       1 × RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General       DC12V(±25%), PoE(IEEE802.3af)	Network				
NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API, SDK  User/Host Up to 32 users. 3 user levels: administrator, common user and operator  Client EZStation, UNV-Link, UNV-Link Pro  Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+  Interface  Built-in Mic Support  Built-in Speaker Support  Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]  Alarm I/O 2/2  Serial Port 1 × RS485  Network 1 × RJ45 10 M/100 M Base-TX Ethernet  Video Output N/A 1 BNC (for debugging)  General  Power DC12V(±25%), PoE(IEEE802.3af)	Protocols				
User/Host Up to 32 users. 3 user levels: administrator, common user and operator Client EZStation, UNV-Link, UNV-Link Pro Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ Interface Built-in Mic Support Built-in Speaker Support Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p] Alarm I/O 2/2 Serial Port 1 × RS485 Network 1 × RJ45 10 M/100 M Base-TX Ethernet Video Output N/A 1 BNC (for debugging) General Power DC12V(±25%), PoE(IEEE802.3af)		NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, Q	oS, SSL/TLS, SSH		
Client EZStation, UNV-Link, UNV-Link Pro   Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+   Interface Interface   Built-in Mic Support   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × RS485   Network 1 × RJ45 10 M/100 M Base-TX Ethernet   Video Output N/A 1 BNC (for debugging)   General   Power DC12V(±25%), PoE(IEEE802.3af)	Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK			
Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+   Interface Support   Built-in Mic Support   Built-in Speaker Support   Audio I/O 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]   Alarm I/O 2/2   Serial Port 1 × RS485   Network 1 × RJ45 10 M/100 M Base-TX Ethernet   Video Output N/A 1 BNC (for debugging)   General Power DC12V(±25%), PoE(IEEE802.3af)	User/Host	Up to 32 users. 3 user levels: administrator, com	nmon user and operator		
Interface         Built-in Mic       Support         Built-in Speaker       Support         Audio I/O       1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]         Alarm I/O       2/2         Serial Port $1 \times RS485$ Network $1 \times RJ45 \times 10 M/100 M Base-TX Ethernet$ Video Output       N/A       1 BNC (for debugging)         General         Power       DC12V(±25%), PoE(IEEE802.3af)	Client	EZStation, UNV-Link, UNV-Link Pro			
Built-in MicSupportBuilt-in SpeakerSupportAudio I/O1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]Alarm I/O $2/2$ Serial Port $1 \times RS485$ Network $1 \times RJ45$ 10 M/100 M Base-TX EthernetVideo OutputN/A1 BNC (for debugging)GeneralPowerDC12V(±25%), PoE(IEEE802.3af)	Web Browser	Plug-in required live view: IE 10+, Chrome 45+, F	Firefox 52+, Edge 79+		
Built-in Speaker Support  Audio I/O $1 \text{ Input: impedance } 1 \text{ k}\Omega, \text{ amplitude } 2.5 \text{ V [p-p], } 1 \text{ Output: impedance } 600 \Omega, \text{ amplitude } 2 \text{ V [p-p]}$ Alarm I/O $2/2$ Serial Port $1 \times RS485$ Network $1 \times RJ45 \times 10 \text{ M/} 100 \text{ M Base-TX Ethernet}$ Video Output $N/A$ $1 \text{ BNC (for debugging)}$ General  Power $DC12V(\pm 25\%), \text{ PoE(IEEE802.3af)}$	Interface				
Audio I/O $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Built-in Mic	Support			
Alarm I/O       2/2         Serial Port       1 × RS485         Network       1 × RJ45 10 M/100 M Base-TX Ethernet         Video Output       N/A       1 BNC (for debugging)         General         Power       DC12V(±25%), PoE(IEEE802.3af)	Built-in Speaker	Support			
Serial Port 1 × RS485  Network 1 × RJ45 10 M/100 M Base-TX Ethernet  Video Output N/A 1 BNC (for debugging)  General  Power DC12V(±25%), PoE(IEEE802.3af)	Audio I/O	1 Input: impedance 1 k $\Omega$ , amplitude 2.5 V [p-p], 1 Output: impedance 600 $\Omega$ , amplitude 2 V [p-p]			
Network 1 × RJ45 10 M/100 M Base-TX Ethernet  Video Output N/A 1 BNC (for debugging)  General  Power DC12V(±25%), PoE(IEEE802.3af)	Alarm I/O	2/2			
Video Output     N/A     1 BNC (for debugging)       General       Power     DC12V(±25%), PoE(IEEE802.3af)	Serial Port	1 × RS485			
General Power DC12V(±25%), PoE(IEEE802.3af)	Network	1 × RJ45 10 M/100 M Base-TX Ethernet			
Power DC12V(±25%), PoE(IEEE802.3af)	Video Output	N/A 1 BNC (for debugging)			
	General				
Power Consumption Max 12W	Power	DC12V(±25%), PoE(IEEE802.3af)			
	Power Consumption	Max 12W			

3



Power Interface	Ø5.5 mm coaxial power plug
Dimensions	Φ129 x 114 mm(Φ5.08" x 4.49")(Φ x H)
Weight	0.72kg(1.6lb)
Working Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: $\leq$ 95% RH (non-condensing)
Storage Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)
Surge Protection	6 KV
Reset Button	Support
RTC	Support
Certification	
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)
Live View	
Maximum Bitstream	35
Maximum Bandwidth	50 Mbps
OSD Font	Vector
OSD Color	Support
OSD Character Number	40
Other	
Corridor Mode	Support

# **Dimensions**





#### **Accessories**

TR-JB03-H-IN

Junction Box for Metal Turret

Camera(Support wiring from behind)



TR-WM03-B-IN
Wall Mounting Assembling Bracket for 3
Inch Hemisphere

#### TR-A01-IN

NPT 3/4" Waterproof Cable Gland



TR-UP06-IN

Universal Pole Mounting Bracket



TR-JB07/WM03-F-IN

Wall Mounting Assembling Bracket with

Back Hole for 3 Inch Hemisphere

TR-UC08-C

Bullet&Dome Corner Mounting Bracket







# **DRI Description**

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 Range Table**

Lens	Detection Rang e (Vehicles:4.0 × 1.4 m)	Detection Rang e (Humans:1.8 × 0.5 m)	Recognition Ra nge (Vehicles: 4. 0 × 1.4 m)	Recognition Ra nge (Humans: 1 .8 × 0.5 m)	Identification R ange (Vehicles: 1.4 × 4.0 m)	Identification Ran ge (Humans: 1.8 × 0.5 m)
2.1mm	207m	83m	52m	21m	30m	12m
3mm	296m	119m	74m	30m	49m	17m
7mm	690m	277m	173m	69m	99m	40m

## **Smart Function Table(Thermal)**

Lens	SIP Detection Range (Ve hicles:4.0 × 1.4 m)	SIP Detection Range (H umans:1.8 × 0.5 m)	Fire Detection Range (ta rget: 0.1x 0.1 m)	Temperature detection (target: 0.1m x 0.1m)
2.1mm	42m	21m	9m	3.5m
3mm	60m	30m	13m	8m
7mm	140m	70m	29m	20m



# **Unlimited New View**

#### Zhejiang Uniview Technologies Co., Ltd.



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<sup>\*</sup>Product specifications and availability are subject to change without notice.

<sup>\*</sup>Despite our best efforts, technical or typographical errors may exist in this document.

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