

# 4MP Optical & Thermal Dual-spectrum Temperature Measurement Bullet Network Camera

#### GX-TM-TIC2531-KIT



## **Key Features**

















## **Optics**

- Thermal & Optical dual-spectrum image, dual video with single IP address, adaptable to more various scenes
- Starlight illumination

#### **Smart**

- Support human body temperature measurement which should be used with blackbody
- Support face detection
- Support mask and human body temperature attribute collection
- Support alarm when no mask and abnormal temperature are detected
- Support audio and light alarm

#### Compression

- Ultra 265, H.265, H.264, MJPEG
- Triple streams
- Max 2688\*1520@60fps in the optical module
- Max 720P@25fps in the thermal module



#### Network

ONVIF Conformance

### Structure

- DC12V or PoE power supply
- Wide voltage range of ±25% in DC
- Micro SD, up to 256 GB
- Alarm 2 in and 2 out, Audio 1 in and 1 out

# **Specifications**

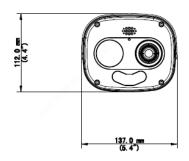
|                                                   | GX-TM-TIC2531-KIT                                                                                                                                                                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical Module                                    | GATIVITICESSE KIT                                                                                                                                                                                                                         |
| Sensor                                            | 1/1.8", 4.0 megapixel, progressive scan, CMOS                                                                                                                                                                                             |
| Lens                                              | 6mm@F1.6,                                                                                                                                                                                                                                 |
| Iris                                              | Auto aperture                                                                                                                                                                                                                             |
| Angle of View (H)                                 | 56.1°                                                                                                                                                                                                                                     |
| Frame Rate                                        | 4MP(2688*1520), Max 60fps                                                                                                                                                                                                                 |
| Shutter                                           | Auto/Manual, 1 ~ 1/100000s                                                                                                                                                                                                                |
| Min. Illumination                                 | Colour:0.001lux (F1.6, AGC ON) 0 lux with IR                                                                                                                                                                                              |
| WDR                                               | 120dB                                                                                                                                                                                                                                     |
| Day/Night                                         | IR-cut filter with auto switch (ICR)                                                                                                                                                                                                      |
| IR Range                                          | Up to 50m (164 ft) IR range                                                                                                                                                                                                               |
| Wavelength                                        | 850nm                                                                                                                                                                                                                                     |
| IR On/Off Control                                 | Auto/Manual                                                                                                                                                                                                                               |
| HLC                                               | Supported                                                                                                                                                                                                                                 |
| BLC                                               | Supported                                                                                                                                                                                                                                 |
| Thermal Module                                    |                                                                                                                                                                                                                                           |
| Sensor type                                       | Vanadium Oxide Uncooled Focal Plane Arrays                                                                                                                                                                                                |
| Max. Resolution                                   | 384*288                                                                                                                                                                                                                                   |
| Angle of View (H)                                 | 39.0°                                                                                                                                                                                                                                     |
| Frame Rate                                        | 720P(1280*720), Max 25fps                                                                                                                                                                                                                 |
| Response waveband                                 | 8~14μm                                                                                                                                                                                                                                    |
| Pixel size                                        | 17μm                                                                                                                                                                                                                                      |
| IFOV                                              | 1.75mrad                                                                                                                                                                                                                                  |
| NETD                                              | ≤50mk @ f1.0                                                                                                                                                                                                                              |
| Lens(focal length)                                | 9.7mm                                                                                                                                                                                                                                     |
| Palette                                           | Up to 20 palettes of optional color, including: white hot, lava, iron oxide red, hot iron, medical, arctic, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, mazarine, fusion, red hot, green hot, color 1, color 2, rain |
| Temperature measurement accuracy                  |                                                                                                                                                                                                                                           |
| Temperature range                                 | 30°C~45°C                                                                                                                                                                                                                                 |
| Temperature accuracy                              | $\pm 0.3  ^{\circ}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$                                                                                                                                               |
| Temperature distance                              | 3~6 M                                                                                                                                                                                                                                     |
| Temperature<br>measurement working<br>environment | 16°C~32°C                                                                                                                                                                                                                                 |

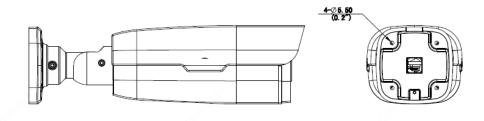


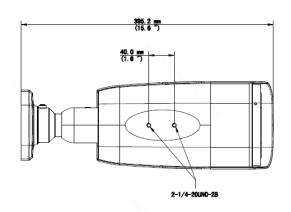
| Video         Video Stream         Ultra265, H.264, MJPEG           Video Stream         Triple streams           OSD         Up to 8 OSDs           Privacy Mask         Up to 8 areas(8 blacks)           Audio Compression         G.711U,G.711A           Two-way audio         Supported, Built in mic and speakers           Sampling Rate         8KHZ           Storage         Edge Storage           Ledge Storage         Micro SD, up to 256 GB           Network Storage         ANR,NAS(NFS)           Network         Protocols           Protocols         IPV4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPGE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CR           Compatible Integration         ONVIF (Profile S, Profile G, Profile T), API           Web Browser         Plug-in required live view: E19+, Chrome 41 and below, Firefox 52 and below           Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+           Interface         Audio cable           1 Input: impedance 35kQ; amplitude 2V [p-p]           1 Input: impedance 600Q; amplitude 2V [p-p]           Alarm I/O         2/2           Serial Port         1 RS485           Network         1 x RJ45 10M/100M Base-TX Ethernet           General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Smart                  |                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| measurement         Support human body temperature measurement alarm, and set alarm threshold temperature           Audio and light alarm         Support audio and light warning function, with red and blue warning lights built in           Face detection         Optical camers support face detection           Alarm         Support alarm when no mask and abnormal temperature are detected           General Function         Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication           Video         Video           Compression         Ultra 265, H.265, H.264, MJPEG           Video Stream         Triple streams           OSD         Up to 8 OSDs           Privacy Mask         Up to 8 a reas (8 blacks)           Audio         Audio Compression           Sampling Rate         SkH2           Storage         SkH2           Edge Storage         Micro SD, up to 256 G8           Network Storage         ARR,NAS(NFS)           Network Storage         ARR,NAS(NFS)           Protocols         IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPNP, HTTP, HTTPS, SMTP, 802.1x, SNMP, 67 RTM           Compatible Integration         ONVIF (Profile S, Profile G, Profile T), API           Interface         Julg-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | •                      | Support human body temperature measurement when OSD displays the temperature on the body surface or inside                           |
| Face detection Optical camera support face detection  Attribute collection Support mask and human body temperature attribute collection  Alarm Support alarm when no mask and abnormal temperature are detected  General Function Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication Video  Compression Ultra265, H.265, H.264, MIPEG  Video Stream Triple streams  OSD Up to 8 OSDs  Privacy Mask Up to 8 areas(8 blacks)  Audio Compression G.711U,G.711A  Two-way audio Supported, Built in mic and speakers  Sampling Rate 8HZ  Storage  Edge Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols IPV4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CR RTMP  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API  Web Browser Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Chrome 41 and below, Firefox 52 and below  Plug-in required live view: 18-9+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio (20  Input: impedance 35kO; amplitude 2V [p-p]  1 output: impedance 35kO; amplitude 2V [p-p]  1 output: impedance 35kO; amplitude 2V [p-p]  1 output: impedance 35kO; amplitude 2V [p-p]  2 of 18- | •                      | Support human body temperature measurement alarm, and set alarm threshold temperature                                                |
| Attribute collection Support mask and human body temperature attribute collection  Alarm Support alarm when no mask and abnormal temperature are detected  General Function Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication  Video  Compression Ultra265, H.265, H.264, MUPEG  Video Stream Triple streams  OSD Up to 8 OSDs  Privacy Mask Up to 8 areas(8 blacks)  Audio  Audio Compression G.711U,G.711A  Two-way audio Supported, Built in mic and speakers  Sampling Rate 8KHZ  Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CR, MTMP  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API  Net Browser Plug-in free live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme S7.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio I/O 2/2  Serial Port 1 RS485  Metwork 1 RS485  DC12V(±25%), POE+(IEEE802.3at)  DC12V(±25%), POE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Audio and light alarm  | Support audio and light warning function, with red and blue warning lights built in                                                  |
| Alarm Support alarm when no mask and abnormal temperature are detected  General Function Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication  Video  Compression Ultra265, H.265, H.264, MJPEG  Video Stream Triple streams  OSD Up to 8 OSDs  Privacy Mask Up to 8 areas(8 blacks)  Audio  Audio Compression G.711U,G.711A  Two-way audio Supported, Built in mic and speakers  Sampling Rate 8 KHZ  Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols IP-4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPDE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SMTP, 802.1x, SNMP, CR  RTMP  Compatible Integration ONUF (Profile S, Profile G, Profile T), API  Plug-in required live view: IES+, Chrome 41 and below, Firefox 52 and below  Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio cable  1 input: impedance 35KQ; amplitude 2V (p-p)  1 output: impedance 6000; amplitude 2V (p-p)  Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base:TX Ethernet  Ceneral  CL2V(£25%), POE+(IEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Face detection         | Optical camera support face detection                                                                                                |
| General Function Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication Video  Compression Ultra265, H.265, H.264, MUPEG  Video Stream Triple streams  OSD Up to 8 OSDs  Privacy Mask Up to 8 areas(8 blacks)  Audio  Audio Compression G.711U,G.711A  Two-way audio Supported, Built in mic and speakers  Sampling Rate 8 KRZ  Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols Pleval, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPGE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPPP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CR, RTMP  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API  Plug-in required live view: IES+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chrome 57.0+, Firefox S8.0+, Edge 16+, Safari 11+  Interface  Audio I/O 2/2  Alarm I/O 2/2  Alarm I/O 2/2  Alarm I/O 1, RM45 10M/100M Base-TX Ethernet  General  DC12V(£258), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Attribute collection   | Support mask and human body temperature attribute collection                                                                         |
| Video   Video   Video Stream                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Alarm                  | Support alarm when no mask and abnormal temperature are detected                                                                     |
| Compression     Ultra265, H.265, H.264, MJPEG       Video Stream     Triple streams       OSD     Up to 8 OSDs       Privacy Mask     Up to 8 areas(8 blacks)       Audio     Audio Compression       Audio Compression     G.711U,G.711A       Two-way audio     Supported, Built in mic and speakers       Sampling Rate     8KHZ       Storage     Micro SD, up to 256 GB       Network Storage     ANR,NAS(NFS)       Network     IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMP       Compatible Integration     ONVIF (Profile S, Profile G, Profile T), API       Web Browser     Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+       Interface     Audio cable       1 Input: impedance 35kΩ; amplitude 2V [p-p]       1 output: impedance 35kΩ; amplitude 2V [p-p]       1 output: impedance 600Ω; amplitude 2V [p-p]       Alarm I/O     2/2       Serial Port     1 RS485       Network     1 x RJ45 10M/100M Base-TX Ethernet       General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | General Function       | Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication  |
| Video Stream     Triple streams       OSD     Up to 8 OSDs       Privacy Mask     Up to 8 areas(8 blacks)       Audio     Audio Compression       G.711U,G.711A       Two-way audio     Supported, Built in mic and speakers       Sampling Rate     8KHZ       Storage     Micro SD, up to 256 GB       Network Storage     ANR,NAS(NFS)       Network     IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMP       Compatible Integration     ONVIF (Profile S, Profile G, Profile T), API       Web Browser     Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below       Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+       Interface       Audio I/O     Audio cable       1 Input: impedance 35kΩ; amplitude 2V [p-p]       1 output: impedance 600Ω; amplitude 2V [p-p]       1 output: impedance 600Ω; amplitude 2V [p-p]       Alarm I/O     2/2       Serial Port     1 RS485       Network     1 x RJ45 10M/100M Base-TX Ethernet       General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Video                  |                                                                                                                                      |
| OSD   Up to 8 OSDs     Privacy Mask   Up to 8 areas(8 blacks)     Audio Compression   G.711U,G.711A     Two-way audio   Supported, Built in mic and speakers     Sampling Rate   8KHZ     Storage   Micro SD, up to 256 GB     Network Storage   ANR,NAS(NFS)     Network Storage   ANR,NAS(NFS)     Protocols   IP-4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SMTP, 802.1x, SNMP, CRTMP     Compatible Integration   ONVIF (Profile S, Profile G, Profile T), API     Web Browser   Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below     Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+     Interface   Audio I/O   2/2     Serial Port   1 RS485     Network   1 x RJ45 10M/100M Base-TX Ethernet     Coeneral   DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Compression            | Ultra265, H.265, H.264, MJPEG                                                                                                        |
| Privacy Mask Up to 8 areas(8 blacks)  Audio  Audio Compression G.711U,G.711A  Two-way audio Supported, Built in mic and speakers  Sampling Rate 8KHZ  Storage  Edge Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols IPV4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMP  Compatible Integration ONIVI (Profile S, Profile G, Profile T), API  Web Browser Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio I/O 1Input: impedance 35kQ; amplitude 2V [p-p] 1 output: impedance 600Q; amplitude 2V [p-p] 1 output: impedance 600Q; amplitude 2V [p-p] Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Video Stream           | Triple streams                                                                                                                       |
| Audio Compression G.711U,G.711A Two-way audio Supported, Built in mic and speakers Sampling Rate 8kHz Storage Edge Storage Micro SD, up to 256 GB Network Storage ANR,NAS(NFS) Network Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SMTP, 802.1x, SNMP, CRTMP Compatible Integration ONVIF (Profile S, Profile G, Profile T), API Web Browser Plug-in required live view: Els+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+ Interface Audio I/O Plug-in required live view: Plug-in required live view: Plug-in free live view: Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+ Interface Audio I/O 2/2 Serial Port 1 RS485 Network 1 x RJ45 10M/100M Base-TX Ethernet General DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OSD                    | Up to 8 OSDs                                                                                                                         |
| Audio Compression G.711U,G.711A Two-way audio Supported, Built in mic and speakers Sampling Rate 8KHZ Storage Edge Storage Micro SD, up to 256 GB Network Storage ANR,NAS(NFS) Network  Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CR, RTMP Compatible Integration ONVIF (Profile S, Profile G, Profile T), API Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface Audio I/O 2/2 Serial Port 1 RS485 Network 1 x RJ45 10M/100M Base-TX Ethernet General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Privacy Mask           | Up to 8 areas(8 blacks)                                                                                                              |
| Two-way audio Supported, Built in mic and speakers  Sampling Rate 8KHZ  Storage  Edge Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols  IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMP  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API  Web Browser  Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio I/O  1 Input: impedance 35kΩ; amplitude 2V [p-p] 1 output: impedance 600Ω; amplitude 2V [p-p]  Alarm I/O 2/2  Serial Port 1 RS485 Network 1 x R145 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Audio                  |                                                                                                                                      |
| Sampling Rate 8KHZ  Storage  Edge Storage Micro SD, up to 256 GB  Network Storage ANR,NAS(NFS)  Network  Protocols IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMP  Compatible Integration ONVIF (Profile S, Profile G, Profile T), API  Web Browser Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio 1/O Audio cable  1 Input: impedance 35kΩ; amplitude 2V [p-p]  1 output: impedance 600Ω; amplitude 2V [p-p]  Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Audio Compression      | G.711U,G.711A                                                                                                                        |
| StorageEdge StorageMicro SD, up to 256 GBNetwork StorageANR,NAS(NFS)NetworkProtocolsIPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRTMPCompatible IntegrationONVIF (Profile S, Profile G, Profile T), APIWeb BrowserPlug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and belowPlug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+InterfaceAudio cableAudio able1 Input: impedance 35kΩ; amplitude 2V [p-p]1 output: impedance 600Ω; amplitude 2V [p-p]Alarm I/O2/2Serial Port1 RS485Network1 x RJ45 10M/100M Base-TX EthernetGeneralDC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Two-way audio          | Supported, Built in mic and speakers                                                                                                 |
| Edge StorageMicro SD, up to 256 GBNetwork StorageANR,NAS(NFS)NetworkProtocolsIPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRAMPCompatible IntegrationONVIF (Profile S, Profile G, Profile T), APIWeb BrowserPlug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and belowPlug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+InterfaceAudio cableAudio I/O1 Input: impedance 35kΩ; amplitude 2V [p-p]1 output: impedance 600Ω; amplitude 2V [p-p]Alarm I/O2/2Serial Port1 RS485Network1 x RJ45 10M/100M Base-TX EthernetGeneralDC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sampling Rate          | 8KHZ                                                                                                                                 |
| Network Storage ANR,NAS(NFS)  Network  Protocols   IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SMTP, 802.1x, SNMP, CRAMBER STATE STAT  | Storage                |                                                                                                                                      |
| Network         Protocols       IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRAMP         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API         Web Browser       Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below         Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+         Interface         Audio cable         1 Input: impedance 35kΩ; amplitude 2V [p-p]         1 output: impedance 600Ω; amplitude 2V [p-p]         Alarm I/O       2/2         Serial Port       1 RS485         Network       1 x RJ45 10M/100M Base-TX Ethernet         General       DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Edge Storage           | Micro SD, up to 256 GB                                                                                                               |
| Protocols   IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, CRIMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Network Storage        | ANR,NAS(NFS)                                                                                                                         |
| Protocols       RTMP         Compatible Integration       ONVIF (Profile S, Profile G, Profile T), API         Web Browser       Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below         Interface       Audio real         Audio I/O       Audio cable         1 Input: impedance 35kΩ; amplitude 2V [p-p]         1 output: impedance 600Ω; amplitude 2V [p-p]         Alarm I/O       2/2         Serial Port       1 RS485         Network       1 x RJ45 10M/100M Base-TX Ethernet         General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Network                |                                                                                                                                      |
| Web Browser Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below   Interface Audio cable   Audio I/O 1 Input: impedance 35kΩ; amplitude 2V [p-p]   1 output: impedance 600Ω; amplitude 2V [p-p]   1 output: impedance 600Ω; amplitude 2V [p-p]   Serial Port 1 RS485   Network 1 x RJ45 10M/100M Base-TX Ethernet   General   DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Protocols              | IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP |
| Web Browser   Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+   Interface   Audio cable   1 Input: impedance 35kΩ; amplitude 2V [p-p]   1 output: impedance 600Ω; amplitude 2V [p-p]   Alarm I/O   2/2   Serial Port 1 RS485   Network 1 x RJ45 10M/100M Base-TX Ethernet   General   DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Compatible Integration | ONVIF (Profile S, Profile G, Profile T), API                                                                                         |
| Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+  Interface  Audio cable  1 Input: impedance 35kΩ; amplitude 2V [p-p]  1 output: impedance 600Ω; amplitude 2V [p-p]  Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Web Browser            | Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below                                                          |
| Audio I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | Plug-in free live view: Chorme 57.0+, Firefox 58.0+, Edge 16+, Safari 11+                                                            |
| Audio I/O       1 Input: impedance 35kΩ; amplitude 2V [p-p]         1 output: impedance 600Ω; amplitude 2V [p-p]         Alarm I/O       2/2         Serial Port       1 RS485         Network       1 x RJ45 10M/100M Base-TX Ethernet         General       DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Interface              |                                                                                                                                      |
| 1 output: impedance 600Ω; amplitude 2V [p-p]  Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Audio I/O              | Audio cable                                                                                                                          |
| Alarm I/O 2/2  Serial Port 1 RS485  Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 1 Input: impedance 35kΩ; amplitude 2V [p-p]                                                                                          |
| Serial Port         1 RS485           Network         1 x RJ45 10M/100M Base-TX Ethernet           General           DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        | 1 output: impedance $600\Omega$ ; amplitude 2V [p-p]                                                                                 |
| Network 1 x RJ45 10M/100M Base-TX Ethernet  General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Alarm I/O              | 2/2                                                                                                                                  |
| General  DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Serial Port            | 1 RS485                                                                                                                              |
| DC12V(±25%), PoE+(IEEE802.3at)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Network                | 1 x RJ45 10M/100M Base-TX Ethernet                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | General                |                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Power                  | DC12V(±25%), PoE+(IEEE802.3at)                                                                                                       |
| Power Power consumption: Max 11W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | Power consumption: Max 11W                                                                                                           |
| Support reverse polarity protection, Overvoltage and overcurrent protection , Input short circuit protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Support reverse polarity protection, Overvoltage and overcurrent protection , Input short circuit protection                         |
| Dimensions (Ø x H) Φ395.2mmx137.0mmx112.0mm(Φ15.6"x5.4"x4.4")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dimensions (Ø x H)     | Φ395.2mmx137.0mmx112.0mm(Φ15.6"x5.4"x4.4")                                                                                           |
| Net Weight 3.5kg(7.7lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Net Weight             | 3.5kg(7.7lb)                                                                                                                         |
| Installation method Tripod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Installation method    | Tripod                                                                                                                               |



## **Dimensions**







## Accessories

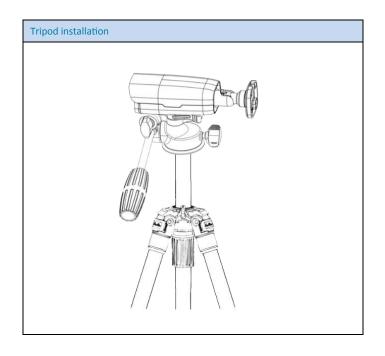
9901C0H4





9901C0H3





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 $<sup>\</sup>ensuremath{^{*}}$  Design and specifications of products are subject to change without notice.