



# Milesight NVR Multi Megapixel Network Camera User Manual

[Home](#) » [Milesight](#) » Milesight NVR Multi Megapixel Network Camera User Manual 



AI PRODUCT COMPARISON GUIDE  
Multi-Megapixel Network Camera · NVR · VMS  
Better Inside, More in Sight  
User Manual

## Contents

- [1 NVR Multi Megapixel Network Camera](#)
- [2 Naming Convention](#)
- [3 AI Color+ Series](#)
- [4 AI 5G Series](#)
- [5 AI Pro Series](#)
- [6 Documents / Resources](#)
  - [6.1 References](#)
- [7 Related Posts](#)

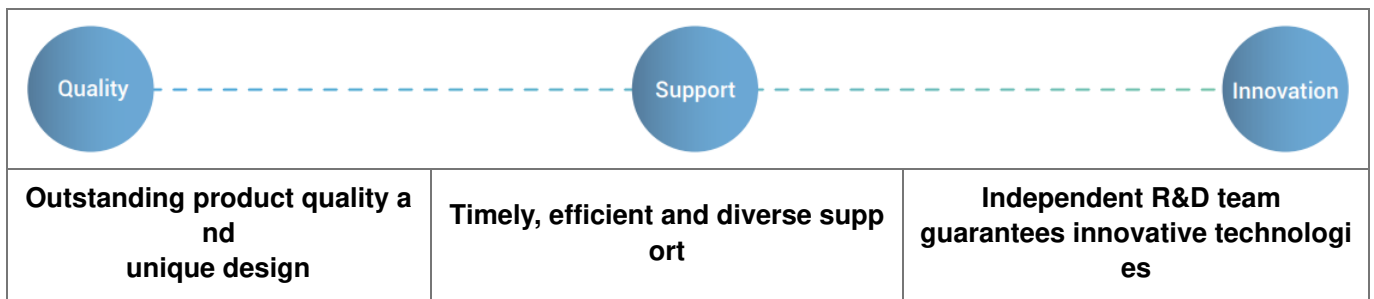
## NVR Multi Megapixel Network Camera



## About Milesight

Milesight is a fast-growing high-tech company delivering smart IoT and video surveillance products with a focus on IoT technologies, including Artificial Intelligence, 5G and LoRaWAN®, since 2011. With improved sensing capability and advanced IoT insights, we help customers worldwide optimize their business operation in a more efficient and sustainable way. In collaboration with a global network of distributors and system integrators, we are committed to building open ecosystems and accelerating IoT strategies to the next level.

Milesight Security provides AIoT video surveillance products including Network Camera, NVR, and Software, deep diving into extensive applications with AI deep learning in Intelligent Traffic, Video Management Platform, and 5G AIoT Solution in a safer and smarter way.



## ► Timeline



## Naming Convention

### Network Camera

[ Model ]: MS-C2966-R(T)F(I)PC — AI Motorized Pro Bullet Plus Camera

**MS-C**

| 2                                                             | 9                                                                                              |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Resolution</b><br>2 – 2MP<br>5 – 5MP<br>8 – 4K<br>9 – 12MP | <b>Sensor</b><br>1 – 4K<br>2 – 4K (1/1.8")<br>3 – 5MP<br>6 – 12MP<br>8 – 2MP (1/2")<br>9 – 2MP |

## 66- Camera Type

|    |                                   |
|----|-----------------------------------|
| 41 | Speed Dome Camera                 |
| 52 | Pro Box Plus Camera               |
| 67 | PTZ Bullet Plus Camera            |
| 66 | Pro Bullet Plus Camera            |
| 65 | 180° Panoramic Mini Bullet Camera |
| 64 | Vandal-proof Mini Bullet Camera   |
| 63 | Weather-proof Mini Bullet Camera  |
| 62 | Pro Bullet Camera                 |
| 61 | PTZ Bullet Camera                 |
| 76 | 180° Panoramic Mini Dome Camera   |
| 75 | Weather-proof Mini Dome Camera    |
| 74 | Fisheye Camera                    |
| 73 | Vandal-proof Mini Dome Camera     |
| 72 | Pro Dome Camera                   |
| 71 | PTZ Dome Camera                   |
| 83 | IR Mini Dome Camera               |

| R                                                                                                                                                                                                                                                                                                                                                                                               | F | I | PC |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|
| <b>Advanced Features</b>                                                                                                                                                                                                                                                                                                                                                                        |   |   |    |
| T- High Frame Rate (90fps/100fps)<br>R- High Frame Rate (60fps)<br>S- 20fps@4K Series<br>X- Magnification of the lens e.g.: X42 – 42X AF lens<br>E- Enterprise Edition<br>F- Motorized Varifocal Lens<br>I- P-Iris Supported<br>U- Full-color Supported<br>V- Radar Supported<br>W- Supplement Light Supported<br>G- 5G Supported<br>O- IoT Supported<br>P- PoE Supported<br>A/C/D- AI Platform |   |   |    |

**Note:** In a sequence from top to bottom

#### Intelligent Traffic Camera

[ Model ]: MS-C2972-RFLPC — Entrance & Exit AI LPR Pro Dome Camera

TS2866-X4TPC — AI Road Traffic Pro Bullet Plus Camera

PMC8266-FPC — AI Outdoor Parking Management Pro Bullet Plus Camera

|                                                                                                                            |                                          |                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|
| <b>TS Series</b><br>TS – Traffic Sensing (Camera)<br>PMC – Parking Management Camera<br>a<br>MS-C – Entrance & Exit Camera | <b>2 Resolution</b><br>2 – 2MP<br>8 – 4K | <b>8 Sensor</b><br>2 – 4K (1/1.8")<br>8 – 2MP (1/2")<br>9 – 2MP |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|

#### 66-

##### Camera Type

41 – Speed Dome Camera

67 – PTZ Bullet Plus Camera

66 – Pro Bullet Plus Camera

64 – Vandal-proof Mini Bullet Camera

61 – PTZ Bullet Camera

72 – Pro Dome Camera

| X4                                                                                                                                                                                                                                              | T | PC |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|
| <b>Advanced Features</b>                                                                                                                                                                                                                        |   |    |
| T – High Frame Rate (100fps)<br>R – High Frame Rate (60fps)<br>X – Magnification of the lens e.g.: 36X AF lens<br>F – Motorized Varifocal Lens<br>L – LPR Supported<br>V – Radar Supported<br>W – Supplement Light Supported<br>C – AI Platform |   |    |

**Note:** The naming rule of “L” is only for the Entrance & Exit management models. Whether other models support

LPR function depends on the application scenes and specific functions.

[ Model ]: SC211-NA — 4G Solar-powered Traffic Sensing Camera

|                                    |                                                                 |                                                |
|------------------------------------|-----------------------------------------------------------------|------------------------------------------------|
| <b>SC Series</b><br>Sensing Camera | <b>2 Major Application Scenarios</b><br>2 – Intelligent Traffic | <b>1 Core Technology</b><br>1 – Frame-based AI |
|------------------------------------|-----------------------------------------------------------------|------------------------------------------------|

|                                                                          |                                                                                                                                                        |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1- Camera Type</b><br>(2_)1 – 4G Solar-powered Traffic Sensing Camera | <b>NA 4G Module Supported Region</b><br>NA – North America<br>EU – Europe, the Middle East and Africa<br>AU – Latin America, Australia and New Zealand |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

### Network Video Recorder

[ Model ]: MS-N7032-UPH — 32-channel 4K H.265 PoE NVR

**MS-N**

|                                                                                                         |                                                                                                                   |                    |                     |                                           |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------------------------|
| <b>7</b><br>1 – 2*HDD(2.5") or 1<br>*HDD(3.5")<br>5 – 2*HDD(3.5")<br>7 – 4*HDD(3.5")<br>8 – 8*HDD(3.5") | <b>032-</b><br>004 – 4-CH<br>008 – 8-CH<br>009 – 9-CH<br>016 – 16-CH<br>048 – 48-CH<br>032 – 32-CH<br>064 – 64-CH | <b>U</b><br>U – 4K | <b>P</b><br>P – PoE | <b>H</b><br>C/E/H – H.265 Co<br>mpression |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------------------------|

### Mile sight PoE Switch

[ Model ]: MS-S0224-GL — Mile sight 4-port PoE Switch

**MS-S**

|                                                         |                                                                                              |                                                                      |                                                                 |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>02</b><br>02 – 2*Uplink Ports<br>04 – 4*Uplink Ports | <b>24-</b><br>04 – 4*PoE Ports<br>08 – 8*PoE Ports<br>16 – 16*PoE Ports<br>24 – 24*PoE Ports | <b>G</b><br>E – 10/100Mbps Uplink<br>Port<br>G – Gigabit Uplink Port | <b>L</b><br>F – Optical Fiber Port (S<br>FP)<br>L – Extend Mode |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|

### AI NETWORK CAMERA



### ▼ AI Network Camera

Color+ Camera Series— 07

5G Camera Series— 08  
 Mini Camera Series— 11  
 Pro Camera Series— 18  
 PTZ Camera Series— 24  
 Panoramic Camera Series— 31  
 Intelligent Traffic Camera Series— 33  
 IoT Device— 43

- ▶ NVR
- ▶ PoE Switch
- ▶ Software



## AI Color+ Series

- AI Deep Learning
- Full-color Image Performance
- F1.0 Super Aperture
- 0.001 Lux Starlight
- 120dB Super WDR
- 30m Illumination Distance
- 4K Resolution
- Point-contact Power Supply
- 3-Axis Mechanical Design



## AI COLOR+ CAMERA SERIES

### AI Color+ Vandal-proof Mini Bullet Camera

|                       | Model                        | MS-C2964-(R)UPD(2MP)                                                                                                                                         | MS-C5364-UPD(5MP)                                                                  | MS-C8164-UPD(4K)                                                                    |
|-----------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Camera                | Appearance                   |                                                                             |  |  |
|                       | Image Sensor                 | 1/2.8" Progressive Scan CMOS                                                                                                                                 |                                                                                    |                                                                                     |
|                       | Min. Illumination            | Color: <a href="#">0.001Lux@F1.0</a><br>0Lux with White LED on                                                                                               | Color: <a href="#">0.002Lux@F1.0</a><br>0Lux with White LED on                     | Color: <a href="#">0.005Lux@F1.0</a><br>0Lux with White LED on                      |
|                       | WDR                          | 120dB Super WDR                                                                                                                                              |                                                                                    |                                                                                     |
|                       | Lens                         | <a href="#">2.8mm/4mm@F1.0</a>                                                                                                                               |                                                                                    |                                                                                     |
|                       | Field of View                | H109°/D125°/V61°(2.8mm)<br>H87°/D100°/V49°(4mm)                                                                                                              | H104°/D129°/V78°(2.8mm)<br>H81°/D100°/V61°(4mm)                                    | H108°/D125°/V60°(2.8mm)<br>H87°/D101°/V49°(4mm)                                     |
|                       | Shutter Time                 | 1/100000s~1s                                                                                                                                                 |                                                                                    |                                                                                     |
|                       | Illumination Distance        | Up to 30m                                                                                                                                                    |                                                                                    |                                                                                     |
|                       | S/N                          | >55dB                                                                                                                                                        |                                                                                    |                                                                                     |
| Video                 | Max. Image Resolution        | 30fps@ (1920×1080) 60fps@ (1920×1080) (Optional for R Series)                                                                                                | 30fps@ (2592×1944)                                                                 | 30fps@ (3840×2160)                                                                  |
|                       | Video Compression            | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                        |                                                                                    |                                                                                     |
|                       | Video Bit Rate               | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                            |                                                                                    |                                                                                     |
| Network               | Ethernet                     | 1*RJ45 10M/100M Ethernet Port                                                                                                                                |                                                                                    |                                                                                     |
|                       | Protocol                     | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                                    |                                                                                     |
| Intelligent Analytics | Video Analysis               | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                          |                                                                                    |                                                                                     |
| System                | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                         |                                                                                    |                                                                                     |
|                       | Advanced Function            | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur                                        |                                                                                    |                                                                                     |
|                       | Event Trigger                | Motion Detection, Network Disconnection, etc.                                                                                                                |                                                                                    |                                                                                     |
|                       | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.                                                                                  |                                                                                    |                                                                                     |
|                       | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                             |                                                                                    |                                                                                     |



|         |                   |                                                                                        |
|---------|-------------------|----------------------------------------------------------------------------------------|
| General | Power Supply      | PoE (802.3af)                                                                          |
|         | Housing           | IP67/IK10                                                                              |
|         | Dimensions/Weight | 97mmX74mmX180mm/610g(Junction Box Version);<br>64mmX64mmX160mm/450g(Cable Out Version) |



## AI 5G Series

- Embedded 5G Technology
- Built-in Network Server
- Integrate Data from IoT Sensors
- 8-CH Data Transmitting Simultaneously
- Support Standard LoRaWAN1) Protocol
- 4K Video Viewing Experience
- 1/1.8" Starlight Sensor
- 3 in 1 Super WDR Pro – 140dB
- Up to 180m IR Distance
- Versatile Interfaces
- Easy Deployment and Compact Structure
- Advanced Heat Map



## AI 5G CAMERA SERIES

### 5G AI 4X/12X Pro Bullet Plus Camera

|  |       |                          |                    |
|--|-------|--------------------------|--------------------|
|  | Model | MS-C2966-X12R(T)GPC(2MP) | MS-C8266-X4GPC(4K) |
|--|-------|--------------------------|--------------------|



|                                |                             |         |                                                                                                                                                                    |                                                                                                  |
|--------------------------------|-----------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Camera                         | Appearance                  |         |                                                                                   | <br><b>4K</b> |
|                                | Image Sensor                |         | 1/2.8" Progressive Scan CMOS                                                                                                                                       | 1/1.8" Progressive Scan CMOS                                                                     |
|                                | Min. Illumination           |         | Color: <b>0.005Lux@F1.6</b><br>B/W: 0Lux with IR on                                                                                                                | Color: <b>0.009Lux@F1.6</b><br>B/W: 0Lux with IR on                                              |
|                                | WDR                         |         | 140dB Super WDR (Super WDR Pro is optional for T Series)                                                                                                           | 120dB Super WDR                                                                                  |
|                                | Lens                        |         | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom                                                                                                                               | 8~32mm@F1.6~F1.7, 4X Optical Zoom                                                                |
|                                | Field of View               |         | H61°~H5°/D69°~D5°/V36°~V2°                                                                                                                                         | H44°~H13°/D51°~D15°/V25°~V7°                                                                     |
|                                | IR Distance                 |         | Up to 180m                                                                                                                                                         |                                                                                                  |
| Video                          | Max. Image Resolution       |         | 60fps@(1920×1080) 100fps@(1920×1080)(Optional for T Series)                                                                                                        | 30fps@(3840×2160)                                                                                |
|                                | Video Compression           |         | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                  |
| Mobile Communication Parameter | Wireless Communication      |         | Support 5G/4G/3G                                                                                                                                                   |                                                                                                  |
|                                | Frequency Bands             | 5G NR   | n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/n71/n77/n78/n79                                                                                                              |                                                                                                  |
|                                |                             | LTE-FDD | B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21(TBD)/B25/B26/B28/B29/B30/B32/B66/B71                                                                       |                                                                                                  |
|                                | Wireless Transmission Speed | SA      | DL 3.3Gbps; UL 250Mbps                                                                                                                                             |                                                                                                  |
|                                |                             | NSA     | DL 3.4Gbps; UL 200Mbps                                                                                                                                             |                                                                                                  |
|                                | SIM Card                    |         | Nano SIM                                                                                                                                                           |                                                                                                  |
| Network                        | Ethernet                    |         | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                  |
|                                | Protocol                    |         | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                                                  |
| Audio                          | Audio Compression           |         | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                  |
| System                         | Storage                     |         | NAS(Support NFS, SMB/CIFS), ANR; Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                          |                                                                                                  |
|                                | Advanced Function           |         | Heat Map, Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                    |                                                                                                  |
|                                | Event Trigger               |         | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                                                         |                                                                                                  |
|                                |                             |         |                                                                                                                                                                    |                                                                                                  |

|         |                              |                                                                                              |
|---------|------------------------------|----------------------------------------------------------------------------------------------|
|         | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. |
| General | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                             |
|         | Power Supply                 | PoE (802.3at) / DC 12V±10%                                                                   |
|         | Housing                      | IP67(Only for camera body)                                                                   |
|         | Dimensions/Weight            | 320mmX134mmX126mm/1608g 320mmX134mmX292mm (With Antennas)/1608g                              |

|             |                        | 5G AiOT 4X/12X Pro Bullet Plus Camera                                              |                                                                                               | AiOT 12X Pro Bullet Plus Camera                                                      |
|-------------|------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|             | Model                  | MS-C2966-X12R(T)GOPC(2MP)                                                          | MS-C8266-X4GOPC(4K)                                                                           | MS-C2966-X12R(T)OPC(2MP)                                                             |
| Camera      | Appearance             |  |             |  |
|             | Image Sensor           | 1/2.8" Progressive Scan CMOS                                                       | 1/1.8" Progressive Scan CMOS                                                                  | 1/2.8" Progressive Scan CMOS                                                         |
|             | Min. Illumination      | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                       | Color: <a href="#">0.009Lux@F1.6</a><br>B/W: 0Lux with IR on                                  | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                         |
|             | WDR                    | 140dB Super WDR (Super WDR Pro is optional for T Series)                           | 120dB Super WDR                                                                               | 140dB Super WDR (Super WDR Pro is optional for T Series)                             |
|             | Lens                   | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom                                               | 8~32mm@F1.6~F1.7, 4X Optical Zoom                                                             | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom                                                 |
|             | Field of View          | H61°~H5°/D69°~D5°/V36°~V2°                                                         | H44°~H13°/D51°~D15°/V25°~V7°                                                                  | H61°~H5°/D69°~D5°/V36°~V2°                                                           |
|             | IR Distance            | Up to 180m                                                                         |                                                                                               |                                                                                      |
| Video       | Max. Image Resolution  | 60fps@(1920×1080) 100fps@(1920×1080)(Optional for T Series)                        | 30fps@(3840×2160)                                                                             | 60fps@(1920×1080) 100fps@(1920×1080)(Optional for T Series)                          |
|             | Video Compression      | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                              |                                                                                               |                                                                                      |
| Mobile Comm | Wireless Communication | Support 5G/4G/3G                                                                   |                                                                                               | —                                                                                    |
|             | Frequency Bands        | 5G NR                                                                              | n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/n71/n77/n78/n79                                         | —                                                                                    |
|             |                        | LTE-FDD                                                                            | B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21(TBD)/ B25/B26/B28/B29/B30/B32/B66/B71 | —                                                                                    |

|                         |                              |     |                                                                                                                                                                    |                                                                    |
|-------------------------|------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Communication Parameter | Wireless Transmission Speed  | SA  | DL 3.3Gbps; UL 250Mbps                                                                                                                                             | —                                                                  |
|                         |                              | NSA | DL 3.4Gbps; UL 200Mbps                                                                                                                                             | —                                                                  |
|                         | SIM Card                     |     | Nano SIM                                                                                                                                                           | —                                                                  |
| LoRa WAN®               | Channel                      |     | 8 channels simultaneously                                                                                                                                          |                                                                    |
|                         | Frequency Band               |     | CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923/AS923-2                                                                                                            |                                                                    |
|                         | Sensitivity                  |     | -140dBm Sensitivity @292bps                                                                                                                                        |                                                                    |
|                         | Protocol                     |     | V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C                                                                                                    |                                                                    |
|                         | Communication Range          |     | Up to 15km                                                                                                                                                         |                                                                    |
| Network                 | Ethernet                     |     | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                    |
|                         | Protocol                     |     | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                    |
| Audio                   | Audio Compression            |     | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                    |
| System                  | Storage                      |     | NAS(Support NFS, SMB/CIFS), ANR; Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                          |                                                                    |
|                         | Advanced Function            |     | Heat Map, Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                    |                                                                    |
|                         | Event Trigger                |     | IoT Sensor Alarm, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                                       |                                                                    |
|                         | Event Action                 |     | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                                                       |                                                                    |
| General                 | Working Temperature/Humidity |     | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                   |                                                                    |
|                         | Power Supply                 |     | PoE (802.3at) / DC 12V±10%                                                                                                                                         |                                                                    |
|                         | Housing                      |     | IP67(Only for camera body)                                                                                                                                         |                                                                    |
|                         | Dimensions/Weight            |     | 320mmX134mmX126mm/1636g 320mmX134mmX292mm (With Antennas)/1636g                                                                                                    | 320mmX134mmX126mm/1521g<br>320mmX134mmX208mm (With Antennas)/1521g |

## 5G AI Motorized Pro Bullet Plus Camera

|                                |                             |                                                                                                                                                                    |                                                                                                  |                                                                                        |
|--------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                | Model                       | MS-C2966-RF(I)GPC(2MP )                                                                                                                                            | MS-C5366-F(I)GPC(5MP)                                                                            | MS-C8266-F(I)GPC(4K)                                                                   |
| Camera                         | Appearance                  |                                                                                   |                 |  4K |
|                                | Image Sensor                | 1/2.8" Progressive Scan CMOS                                                                                                                                       |                                                                                                  | 1/1.8" Progressive Scan CMOS                                                           |
|                                | Min. Illumination           | Color: <a href="#">0.005Lux@F1.4</a><br>B/W: 0Lux with IR on                                                                                                       | Color: <a href="#">0.008Lux@F1.4</a><br>B/W: 0Lux with IR on                                     | Color: <a href="#">0.009Lux@F1.4</a><br>B/W: 0Lux with IR on                           |
|                                | WDR                         | 140dB Super WDR                                                                                                                                                    | 120dB Super WDR                                                                                  |                                                                                        |
|                                | Lens                        | Motorized <a href="#">2.7~13.5mm/7~22mm@F1.4</a><br>P-Iris(Optional)                                                                                               |                                                                                                  | Motorized <a href="#">3.6~10mm@F1.4</a><br>P-Iris(Optional)                            |
|                                | Field of View               | H113°~H33°/D130°~D38°/<br>V60°~V18° (2.7~13.5mm)<br>H45°~H17°/D53°~D20°/V25°~V9° (7~22mm)                                                                          | H113°~H33°/D138°~D42°/<br>V83°~V25° (2.7~13.5mm)<br>H42°~H16°/D53°~D20°/V32°~V12° (7~22mm)       | H116°~H48°/D134°~D55°/<br>V65°~V27°                                                    |
|                                | IR Distance                 | Up to 65m(2.7~13.5mm) Up to 100m(7~22mm)                                                                                                                           |                                                                                                  | Up to 65m                                                                              |
| Video                          | Max. Image Resolution       | 60fps@(1920×1080)                                                                                                                                                  | 30fps@(2592×1944)                                                                                | 30fps@(3840×2160)                                                                      |
|                                | Video Compression           | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                  |                                                                                        |
| Mobile Communication Parameter | Wireless Communication      |                                                                                                                                                                    | Support 5G/4G/3G                                                                                 |                                                                                        |
|                                | Frequency Bands             | 5G NR                                                                                                                                                              | n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/n71/n77/n78/n79                                            |                                                                                        |
|                                |                             | LTE-FDD                                                                                                                                                            | B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21(TBD)/<br>B25/B26/B28/B29/B30/B32/B66/B71 |                                                                                        |
|                                | Wireless Transmission Speed | SA                                                                                                                                                                 | DL 3.3Gbps; UL 250Mbps                                                                           |                                                                                        |
|                                |                             | NSA                                                                                                                                                                | DL 3.4Gbps; UL 200Mbps                                                                           |                                                                                        |
|                                | SIM Card                    |                                                                                                                                                                    | Nano SIM                                                                                         |                                                                                        |
| Network                        | Ethernet                    | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                  |                                                                                        |
|                                | Protocol                    | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                                                  |                                                                                        |
| Audio                          | Audio Compression           | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                  |                                                                                        |

|         |                                |                                                                                                                                                 |
|---------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| System  | Storage                        | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                            |
|         | Advanced Function              | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|         | Event Trigger                  | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                                      |
|         | Event Action                   | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                                    |
| General | Working Temperature / Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                |
|         | Power Supply                   | PoE (802.3af) / DC 12V±10%                                                                                                                      |
|         | Housing                        | IP67(Only for camera body)                                                                                                                      |
|         | Dimensions/Weight              | 320mmX134mmX126mm/1650g 320mmX134mmX208mm (With Antennas)/1650g                                                                                 |



## AI Mini Series

- Ultra Mini Size
- 2MP@60fps, 5MP@30fps, 4K@30fps IP67 & IK10
- 0.005Lux Starlight
- 140dB Super WDR
- Smart IR II Technology
- AI Video Analytics
- People Counting
- Face Detection
- Advanced Heat Map
- 3-Axis Mechanical Design



## AI MINI CAMERA SERIES

### AI IR Mini Dome Camera

|        | Model                 | MS-C2983-RPC(2 MP)                                                                  | MS-C2983-(R)PD(2 MP)                                                                | MS-C5383-PD(5MP )                                                                    | MS-C8183-PD(4K)                                                                                                                                                             |
|--------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera | Appearance            |  |  |  |   |
|        | Image Sensor          | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                      |                                                                                                                                                                             |
|        | Min. Illumination     | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                        |                                                                                     | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                         | Color: <a href="#">0.012Lux@F1.6</a><br>B/W: 0Lux with IR on                                                                                                                |
|        | WDR                   | 140dB Super WDR                                                                     | 120dB Super WDR                                                                     |                                                                                      |                                                                                                                                                                             |
|        | Field of View         | H111°/D128°/V61°(2.8mm)                                                             |                                                                                     | H105°/D131°/V78°(2.8mm)                                                              | H110°/D126°/V60°(2.8mm)                                                                                                                                                     |
|        | Shutter Time          | 1/100000s~1s                                                                        |                                                                                     |                                                                                      |                                                                                                                                                                             |
|        | IR Distance           | Up to 20m                                                                           |                                                                                     |                                                                                      |                                                                                                                                                                             |
|        | Day/Night Mode        | Day/Night/Auto/Customize/Schedule                                                   |                                                                                     |                                                                                      |                                                                                                                                                                             |
|        | S/N                   | >55dB                                                                               |                                                                                     |                                                                                      |                                                                                                                                                                             |
| Video  | Max. Image Resolution | 60fps@(1920×1080)                                                                   | 30fps@(1920×1080)<br>60fps@(1920×1080) (Optional for R Series)                      | 30fps@(2592×1944)                                                                    | 30fps@(3840×2160)                                                                                                                                                           |
|        |                       |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |

|                       |                              |                                                                                                                                                                    |                                                                                                                                                              |
|-----------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O                     | Video Compression            | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                                                                              |
|                       | Video Bit Rate               | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                                                                                                                              |
| Net work              | Ethernet                     | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                              |
|                       | Protocol                     | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |
| Audio                 | Audio Compression            | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                                                                              |
|                       | Audio Interface              | Built-in Microphone                                                                                                                                                |                                                                                                                                                              |
| Intelligent Analytics | Video Analysis               | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                                                                                                                              |
| System                | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                                                                                                                              |
|                       | Advanced Function            | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-licker, Corridor Mode, Deblur, Watermark                     | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur                                        |
|                       | Event Trigger                | Motion Detection, Network Disconnection, Audio Alarm, etc.                                                                                                         |                                                                                                                                                              |
|                       | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.                                                                                        |                                                                                                                                                              |
| General               | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                   |                                                                                                                                                              |
|                       | Power Supply                 | PoE (802.3af)                                                                                                                                                      |                                                                                                                                                              |
|                       | Housing                      | N/A                                                                                                                                                                |                                                                                                                                                              |
|                       | Dimensions/Weight            | Φ97.8mmX57.9mm/200g                                                                                                                                                |                                                                                                                                                              |

## AI Vandal-proof Mini Dome Camera



|         |                       |                                                                                                                                                                    |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|---------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Model                 | MS-C2973-RPC(2MP)                                                                                                                                                  | MS-C2973-(R)PD(2MP)                                                                                                                                          | MS-C5373-PD(5MP)                                                                   | MS-C8173-PD(4K)                                                                                                                                                         |
| Camera  | Appearance            |                                                                                   |                                                                             |  |   |
|         | Image Sensor          | 1/2.8" Progressive Scan CMOS                                                                                                                                       |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Min. Illumination     | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                                                                                                       |                                                                                                                                                              | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                       | Color: <a href="#">0.012Lux@F1.6</a><br>B/W: 0Lux with IR on                                                                                                            |
|         | WDR                   | 140dB Super WDR                                                                                                                                                    | 120dB Super WDR                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Lens                  | <a href="#">2.8mm/4mm/6mm@F1.6</a>                                                                                                                                 |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Field of View         | H111°/D128°/V61°(2.8mm)                                                                                                                                            |                                                                                                                                                              | H105°/D131°/V78°(2.8mm)                                                            | H110°/D126°/V60°(2.8mm)                                                                                                                                                 |
|         | Shutter Time          | 1/100000s~1s                                                                                                                                                       |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | IR Distance           | Up to 30m                                                                                                                                                          |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | S/N                   | >55dB                                                                                                                                                              |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
| Video   | Max. Image Resolution | 60fps@(1920×1080)                                                                                                                                                  | 30fps@(1920×1080)<br>60fps@(1920×1080)(Optional for R Series)                                                                                                | 30fps@(2592×1944)                                                                  | 30fps@(3840×2160)                                                                                                                                                       |
|         | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
| Network | Ethernet              | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Protocol              | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                                    |                                                                                                                                                                         |
| Audio   | Audio Compression     | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |
|         | Audio I/O             | Built-in Microphone; 1/1 (Multi-interface Version)                                                                                                                 |                                                                                                                                                              |                                                                                    |                                                                                                                                                                         |

|                       |                               |                                                                                                                                                                                                     |                                                                                                                       |
|-----------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Intelligent Analytics | Video Analysis                | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                                                 |                                                                                                                       |
| System                | Alarm I/O                     | 1/1 (Multi-interface Version)                                                                                                                                                                       |                                                                                                                       |
|                       | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256 G                                                                                                               |                                                                                                                       |
|                       | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Water mark                                                    | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur |
|                       | Event Trigger                 | Motion Detection, Network Disconnection, Audio Alarm, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)                                    |                                                                                                                       |
|                       | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.; FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. (Multi-interface Version) |                                                                                                                       |
| General               | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                                                    |                                                                                                                       |
|                       | Power Supply                  | PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)                                                                                                                                 |                                                                                                                       |
|                       | Housing                       | IP67/IK10                                                                                                                                                                                           |                                                                                                                       |
|                       | Dimensions/Weight             | 118.5mmX110.8mmX65mm/500g                                                                                                                                                                           |                                                                                                                       |

### AI Weather-proof Mini Dome Camera

|  | Model        | MS-C2975-RPC(2MP)                                                                   | MS-C2975-(R)PD(2MP)                                                                 | MS-C5375-PD(5MP)                                                                     | MS-C8175-PD(4K)                                                                       |
|--|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Appearance   |  |  |  |  |
|  | Image Sensor | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                      |                                                                                       |

|                              |                          |                                                                                                                                                                    |                                                                                                                                                              |                                                              |                                                              |
|------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Ca<br>me<br>ra               | Min. Illumination        | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                                                                                                       |                                                                                                                                                              | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on | Color: <a href="#">0.012Lux@F1.6</a><br>B/W: 0Lux with IR on |
|                              | WDR                      | 140dB Super WDR                                                                                                                                                    | 120dB Super WDR                                                                                                                                              |                                                              |                                                              |
|                              | Lens                     | <a href="#">2.8mm/4mm/6mm@F1.6</a>                                                                                                                                 |                                                                                                                                                              |                                                              |                                                              |
|                              | Field of View            | H111°/D128°/V61°(2.8mm)                                                                                                                                            |                                                                                                                                                              | H105°/D131°/V78°(2.8mm)                                      | H110°/D126°/V60°(2.8mm)                                      |
|                              | Shutter Time             | 1/100000s~1s                                                                                                                                                       |                                                                                                                                                              |                                                              |                                                              |
|                              | IR Distance              | Up to 25m                                                                                                                                                          |                                                                                                                                                              |                                                              |                                                              |
|                              | S/N                      | >55dB                                                                                                                                                              |                                                                                                                                                              |                                                              |                                                              |
|                              | Max. Image Resolution    | 60fps@(1920×1080)                                                                                                                                                  | 30fps@(1920×1080)<br>60fps@(1920×1080)<br>(Optional for R Series)                                                                                            | 30fps@(2592×1944)                                            | 30fps@(3840×2160)                                            |
| Vi<br>de<br>o                | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                                                                              |                                                              |                                                              |
|                              | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                                                                                                                              |                                                              |                                                              |
| Ne<br>tw<br>ork              | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                              |                                                              |                                                              |
|                              | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                              |                                                              |
| Au<br>dio                    | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                                                                              |                                                              |                                                              |
|                              | Audio Interface          | Built-in Microphone                                                                                                                                                |                                                                                                                                                              |                                                              |                                                              |
| Intelli<br>gent<br>Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                                                                                                                              |                                                              |                                                              |
|                              | Face Detection           | —                                                                                                                                                                  |                                                                                                                                                              |                                                              |                                                              |
|                              | People Counting & Report | —                                                                                                                                                                  |                                                                                                                                                              |                                                              |                                                              |
|                              | Storage                  | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                                                                                                                              |                                                              |                                                              |
|                              |                          |                                                                                                                                                                    |                                                                                                                                                              |                                                              |                                                              |

|         |                                |                                                                                                                                                 |                                                                                                                       |
|---------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| System  | Advanced Function              | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur |
|         | Event Trigger                  | Motion Detection, Network Disconnection, Audio Alarm, etc.                                                                                      |                                                                                                                       |
|         | Event Action                   | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.                                                                     |                                                                                                                       |
| General | Working Temperature / Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                |                                                                                                                       |
|         | Power Supply                   | PoE (802.3af)                                                                                                                                   |                                                                                                                       |
|         | Housing                        | IP67/IK10                                                                                                                                       |                                                                                                                       |
|         | Dimensions /Weight             | Φ108mmX96.5mm/600g (Junction Box Version); Φ106mmX76.5mm/410g (Cable Out Version)                                                               |                                                                                                                       |

## AI Motorized Dome Camera

|        | Model             | MS-C2975-RF(I)PC(2MP)                                                               | MS-C2975-RFPD(2MP)                                                                  | MS-C5375-FPD(5MP)                                                                    | MS-C8175-FPD(4K)                                                                                                                                                            |
|--------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera | Appearance        |  |  |  |   |
|        | Image Sensor      | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                      |                                                                                                                                                                             |
|        | Min. Illumination | Color: <a href="#">0.005Lux@F1.4</a><br>B/W: 0Lux with IR on                        |                                                                                     | Color: <a href="#">0.008Lux@F1.4</a><br>B/W: 0Lux with IR on                         | Color: <a href="#">0.012Lux@F1.4</a><br>B/W: 0Lux with IR on                                                                                                                |
|        | WDR               | 140dB Super WDR                                                                     | 120dB Super WDR                                                                     |                                                                                      |                                                                                                                                                                             |
|        | Lens              | Motorized <a href="#">2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4</a><br>P-Iris(Optional)     | Motorized <a href="#">2.7~13.5mm/7~22mm@F1.4</a>                                    |                                                                                      | Motorized <a href="#">2.7~13.5mm@F1.4</a>                                                                                                                                   |
|        | Field of View     | H111°~H34°/D130°~D39°/ V60°~V19°(2.7~13.5mm)                                        |                                                                                     | H99°~H31°/D124°~D38°/ V72°~V23°(2.7~13.5mm)                                          | H107°~H33°/D125°~D37°<br>/V58°~V18°                                                                                                                                         |
|        | Shutter Time      | 1/100000s~1s                                                                        |                                                                                     |                                                                                      |                                                                                                                                                                             |

|                       |                       |                                                                                                                                                                    |                                                                                                                                                              |                   |                   |
|-----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
|                       | IR Distance           | Up to 50m                                                                                                                                                          |                                                                                                                                                              |                   |                   |
|                       | S/N                   | >55dB                                                                                                                                                              |                                                                                                                                                              |                   |                   |
| Video                 | Max. Image Resolution | 60fps@(1920×1080)                                                                                                                                                  | 60fps@(1920×1080)                                                                                                                                            | 30fps@(2592×1944) | 30fps@(3840×2160) |
|                       | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                                                                              |                   |                   |
|                       | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                                                                                                                              |                   |                   |
| Network               | Ethernet              | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                              |                   |                   |
| Audio                 | Protocol              | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |                   |
|                       | Audio Compression     | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                                                                              |                   |                   |
|                       | Audio I/O             | Built-in Microphone; 1/1 (Multi-interface Version)                                                                                                                 |                                                                                                                                                              |                   |                   |
| Intelligent Analytics | Video Analysis        | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                                                                                                                              |                   |                   |
| System                | Alarm I/O             | 1/1 (Multi-interface Version)                                                                                                                                      |                                                                                                                                                              |                   |                   |
|                       | Storage               | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                                                                                                                              |                   |                   |
|                       | Advanced Function     | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                    | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur                                        |                   |                   |
|                       |                       |                                                                                                                                                                    |                                                                                                                                                              |                   |                   |

|         |                               |                                                                                              |
|---------|-------------------------------|----------------------------------------------------------------------------------------------|
|         | Event Trigger                 | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                   |
|         | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. |
| General | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                             |
|         | Power Supply                  | PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)                          |
|         | Housing                       | IP67/IK10                                                                                    |
|         | Dimensions/Weight             | Φ130mmX115mm/780g                                                                            |

### AI Weather-proof Mini Bullet Camera

|        |                   |                                                                                     |                                                                                     |                                                                                       |
|--------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        | Model             | MS-C2963-RPA(2MP)                                                                   | MS-C5363-PA(5MP)                                                                    | MS-C8163-PA(4K)                                                                       |
| Camera | Appearance        |  |  |  |
|        | Image Sensor      | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                       |
|        | Min. Illumination | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                        | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                        | Color: <a href="#">0.012Lux@F1.6</a><br>B/W: 0Lux with IR on                          |
|        | WDR               | 120dB Super WDR                                                                     |                                                                                     |                                                                                       |
|        | Lens              | <a href="#">4mm/2.8mm/6mm@F1.6</a>                                                  |                                                                                     |                                                                                       |
|        | Field of View     | H91°/D106°/V50°(4mm)                                                                | H86°/D108°/V63°(4mm)                                                                | H91°/D106°/V50°(4mm)                                                                  |
|        | Shutter Time      | 1/100000s~1s                                                                        |                                                                                     |                                                                                       |
|        | IR Distance       | Up to 50m                                                                           |                                                                                     |                                                                                       |

|                       |                          |                                                                                                                                                                                                     |                   |                   |
|-----------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
|                       | S/N                      | >55dB                                                                                                                                                                                               |                   |                   |
| Video                 | Max. Image Resolution    | 60fps@(1920×1080)                                                                                                                                                                                   | 30fps@(2592×1944) | 30fps@(3840×2160) |
|                       | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                                                               |                   |                   |
|                       | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                                                   |                   |                   |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                                                       |                   |                   |
|                       | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL                                  |                   |                   |
| Audio                 | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                                                               |                   |                   |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                                                 |                   |                   |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                                                                |                   |                   |
| System                | Storage                  | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256 G                                                                                                               |                   |                   |
|                       | Advanced Function        | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                                                                 |                   |                   |
|                       | Event Trigger            | Motion Detection, Network Disconnection, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)                                                 |                   |                   |
|                       | Event Action             | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.; FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. (Multi-interface Version) |                   |                   |

|         |                                |                                                                     |
|---------|--------------------------------|---------------------------------------------------------------------|
| General | Working Temperature / Humidity | -40°C~60°C/0~90%(Non-condensing)                                    |
|         | Power Supply                   | PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version) |
|         | Housing                        | IP67/IK10                                                           |
|         | Dimensions/Weight              | Φ76mmX214.5mm/750g                                                  |

### AI Vandal-proof Mini Bullet Camera

|        |                   |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|        | Model             | MS-C2964-RPC(2MP)                                                                   | MS-C2964-(R)PD(2MP)                                                                 | MS-C5364-PD(5MP)                                                                     | MS-C8164-PD(4K)                                                                       |
| Camera | Appearance        |  |  |  |  |
|        | Image Sensor      | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                      |                                                                                       |
|        | Min. Illumination | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                        |                                                                                     | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                         | Color: <a href="#">0.012Lux@F1.6</a><br>B/W: 0Lux with IR on                          |
|        | WDR               | 140dB Super WDR                                                                     | 120dB Super WDR                                                                     |                                                                                      |                                                                                       |
|        | Lens              | <a href="#">2.8mm/4mm/6mm@F1.6</a>                                                  |                                                                                     |                                                                                      |                                                                                       |
|        | Field of View     | H111°/D128°/V61°(2.8mm)                                                             |                                                                                     | H105°/D131°/V78°(2.8mm)                                                              | H110°/D126°/V60°(2.8mm)                                                               |



|                       |                       |                                                                                                                                                                    |                                                                                                                                                              |                   |                   |
|-----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
|                       | Shutter Time          | 1/100000s~1s                                                                                                                                                       |                                                                                                                                                              |                   |                   |
|                       | IR Distance           | Up to 30m                                                                                                                                                          |                                                                                                                                                              |                   |                   |
|                       | S/N                   | >55dB                                                                                                                                                              |                                                                                                                                                              |                   |                   |
| Video                 | Max. Image Resolution | 60fps@(1920×1080)                                                                                                                                                  | 30fps@(1920×1080)<br>60fps@(1920×1080)(Optional for R Series)                                                                                                | 30fps@(2592×1944) | 30fps@(3840×2160) |
|                       | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                                                                                                                              |                   |                   |
|                       | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                                                                                                                              |                   |                   |
| Network               | Ethernet              | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                              |                   |                   |
|                       | Protocol              | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |                   |
| Intelligent Analytics | Video Analysis        | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                                                                                                                              |                   |                   |
|                       | Storage               | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                                                                                                                              |                   |                   |
|                       |                       |                                                                                                                                                                    |                                                                                                                                                              |                   |                   |

|         |                               |                                                                                                                                                  |                                                                                                                       |
|---------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| System  | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Water mark | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur |
|         | Event Trigger                 | Motion Detection, Network Disconnection, etc.                                                                                                    |                                                                                                                       |
|         | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.                                                                      |                                                                                                                       |
| General | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                 |                                                                                                                       |
|         | Power Supply                  | PoE (802.3af)                                                                                                                                    |                                                                                                                       |
|         | Housing                       | IP67/IK10                                                                                                                                        |                                                                                                                       |
|         | Dimensions/Weight             | 97mmX74mmX180mm/610g(Junction Box Version); 64mmX64mmX160mm/450g(Cable Out Version)                                                              |                                                                                                                       |

### AI Motorized Bullet Camera

|  | Model        | MS-C2964-RF(I)PA(2MP)                                                               | MS-C5364-F(I)PA(5MP)                                                                | MS-C8164-F(I)PA(4K)                                                                             |
|--|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|  | Appearance   |  |  |  <b>4K</b> |
|  | Image Sensor | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |                                                                                                 |
|  |              |                                                                                     |                                                                                     |                                                                                                 |

|                       |                          |                                                                                                                                                                    |                                                              |                                                               |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| Camera                | Min. Illumination        | Color: <a href="#">0.005Lux@F1.4</a><br>B/W: 0Lux with IR on                                                                                                       | Color: <a href="#">0.008Lux@F1.4</a><br>B/W: 0Lux with IR on | Color: <a href="#">0.012Lux@F1.4</a><br>B/W: 0Lux with IR on  |
|                       | WDR                      | 120dB Super WDR                                                                                                                                                    |                                                              |                                                               |
|                       | Lens                     | Motorized <a href="#">2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4</a><br>P-Iris(Optional)                                                                                    |                                                              | Motorized <a href="#">2.7~13.5mm@F1.4</a><br>P-Iris(Optional) |
|                       | Field of View            | H111°~H34°/D130°~D39°/ V60°~V19° (2.7~13.5mm)                                                                                                                      | H99°~H31°/ D124°~D38°/ V72°~V23° (2.7~13.5mm)                | H107°~H33°/D125°~D37° /V58°~V18°                              |
|                       | Shutter Time             | 1/100000s~1s                                                                                                                                                       |                                                              |                                                               |
|                       | IR Distance              | Up to 50m                                                                                                                                                          |                                                              |                                                               |
|                       | S/N                      | >55dB                                                                                                                                                              |                                                              |                                                               |
| Video                 | Max. Image Resolution    | 60fps@(1920×1080)                                                                                                                                                  | 30fps@(2592×1944)                                            | 30fps@(3840×2160)                                             |
|                       | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                              |                                                               |
|                       | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                              |                                                               |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                              |                                                               |
|                       | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                              |                                                               |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                              |                                                               |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |                                                              |                                                               |

|         |                               |                                                                                                                                     |
|---------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| System  | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256 G                                               |
|         | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|         | Event Trigger                 | Motion Detection, Network Disconnection, etc.                                                                                       |
|         | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.                                                         |
| General | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                    |
|         | Power Supply                  | PoE (802.3af) / DC 12V±10%                                                                                                          |
|         | Housing                       | IP67/IK10                                                                                                                           |
|         | Dimensions/Weight             | Φ76mmX239.5mm/825g                                                                                                                  |



## AI Pro Series

- 4K High Resolution
- 0.002Lux Starlight
- 120dB Super WDR
- Up to 90fps High Frame Rate
- Smart IR II Technology
- Pins Control
- AI Video Analytics
- People Counting
- Face Detection

- Advanced Heat Map
- Versatile Interfaces
- IP67 & IK10
- Integrated Cable Management
- Advanced Heat Map



## AI PRO CAMERA SERIES

### AI Motorized Pro Dome Camera

|        | Model             | MS-C2872-R(T)F(I)PA(2MP)                                                            | MS-C2972-R(T)F(I)PA(2MP)                                                            | MS-C2972-RF(I)PC(2MP)                                                                 |
|--------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Camera | Appearance        |  |  |  |
|        | Image Sensor      | 1/2" Progressive Scan CMOS                                                          | 1/2.8" Progressive Scan CMOS                                                        |                                                                                       |
|        | Min. Illumination | Color: 0.002Lux@F1.4<br>B/W: 0Lux with IR on                                        | Color 0.005Lux@F1.4<br>B/W: 0Lux with IR on                                         |                                                                                       |
|        | WDR               | 120dB Super WDR                                                                     |                                                                                     | 140dB Super WDR                                                                       |
|        | Lens              | Motorized 3.6~10mm@F1.4<br>P-Iris(Optional)                                         | Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4<br>P-Iris(Optional)                     |                                                                                       |

|                       |                          |                                                                                                                                                              |                                                    |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|                       | Field of View            | H96°~H42°/D111°~D48°/V55°~V23°                                                                                                                               | H115°~H34°/D135°~D39° /V62°~V19° (2.7~13.5mm)      |
|                       | Shutter Time             | 1/100000s-1s                                                                                                                                                 |                                                    |
|                       | IR Distance              | Up to 50m                                                                                                                                                    | Up to 50m(3.0-10.5mm/2.7-13.5mm), Up to 90m(7-22m) |
|                       | S/N                      | >55dB                                                                                                                                                        |                                                    |
|                       | Max. Image Resolution    | 60fps@(1920×1080), 90fps@(1920×1080)(Optional for T Series)                                                                                                  | 60fps@(1920×1080)                                  |
| Video                 | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                        |                                                    |
|                       | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                            |                                                    |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                |                                                    |
|                       | Protocol                 | 1Pv4/1Pv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                    |
| Audio                 | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                        |                                                    |
|                       | Audio I/O                | Built-in Microphone and 1 Audio Output interface                                                                                                             |                                                    |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                          |                                                    |
|                       | Face detection           |                                                                                                                                                              | Detect and capture faces, get real-time snapshots  |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                         |                                                    |

|         |                              |                                                                                                                                     |                                                                                                                                         |
|---------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| System  | Alarm I/O                    | 1/1                                                                                                                                 |                                                                                                                                         |
|         | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                |                                                                                                                                         |
|         | Advanced Function            | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking. Heat M. BLC. FRG 2D DNR 3D DNR. Delos AWB. EIS. P Address Fdtermg. AGC. Anti-flicker, Corridor Mode. Deblur, Watermark |
|         | Event Trigger                | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                          |                                                                                                                                         |
|         | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                        |                                                                                                                                         |
| General | Working Temperature Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                    |                                                                                                                                         |
|         | Power Supply                 | PoE (802.3af) / DC 12V±10%                                                                                                          |                                                                                                                                         |
|         | Housing                      | IP67/IK10                                                                                                                           |                                                                                                                                         |
|         | Dimensions/Weight            | Φ143mmX108.4mm/1100g                                                                                                                |                                                                                                                                         |

### AI Motorized Pro Dome Camera

|  | Model        | MS-C5372-F(I)PA(5MP)                                                                | MS-C8172-F(I)PA(4K)                                                                 | MS-C8272-F(I)PA(4K)                                                                   |
|--|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Appearance   |  |  |  |
|  | Image Sensor | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     | 1/1.8" Progressive Scan CMOS                                                          |

|                 |                               |                                                                                                                                                                    |                                                               |                                                              |
|-----------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| Ca<br>me<br>ra  | Min. Illumi<br>nation         | Color: <a href="#">0.008Lux@F1.4</a><br>B/W: 0Lux with IR on                                                                                                       | Color: <a href="#">0.012Lux@F1.4</a><br>B/W: 0Lux with IR on  | Color: <a href="#">0.009Lux@F1.4</a><br>B/W: 0Lux with IR on |
|                 | WDR                           | 120dB Super WDR                                                                                                                                                    |                                                               |                                                              |
|                 | Lens                          | Motorized<br><a href="#">2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4</a><br>P-Iris(Optional)                                                                                 | Motorized <a href="#">2.7~13.5mm@F1.4</a><br>P-Iris(Optional) | Motorized <a href="#">3.6~10mm@F1.4</a><br>P-Iris(Optional)  |
|                 | Field of Vi<br>ew             | H89°~H30°/D111°~D37°/V66°~V22°(2.7~13.5mm)                                                                                                                         | H96°~H33°/ D112°~D37°/ V53°~V18°                              | H110°~H46°/D126°~D54°/V61°~V25°                              |
|                 | Shutter Ti<br>me              | 1/100000s~1s                                                                                                                                                       |                                                               |                                                              |
|                 | IR<br>Distance                | Up to 50m(3.0~10.5mm/2.7~13.5mm), Up to 90m(7~22mm)                                                                                                                | Up to 50m                                                     |                                                              |
|                 | S/N                           | >55dB                                                                                                                                                              |                                                               |                                                              |
| Vi<br>de<br>o   | Max. Ima<br>ge Resolu<br>tion | 30fps@(2592×1944)                                                                                                                                                  | 30fps@(3840×2160)                                             |                                                              |
|                 | Video Co<br>mpression         | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                               |                                                              |
|                 | Video Bit<br>Rate             | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                               |                                                              |
| Ne<br>tw<br>ork | Ethernet                      | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                               |                                                              |
|                 | Protocol                      | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                               |                                                              |



|                       |                               |                                                                                                                                     |
|-----------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Audio                 | Audio Compression             | G.711/AAC/G.722/G.726                                                                                                               |
|                       | Audio I/O                     | Built-in Microphone and 1 Audio Output interface                                                                                    |
| Intelligent Analytics | Video Analysis                | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed |
|                       | Face detection                | —                                                                                                                                   |
|                       | People Counting & Report      | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                |
| System                | Alarm I/O                     | 1/1                                                                                                                                 |
|                       | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                |
|                       | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|                       | Event Trigger                 | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                          |
|                       | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                        |
| General               | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                    |
|                       | Power Supply                  | PoE (802.3af) / DC 12V±10%                                                                                                          |

|                   |                      |
|-------------------|----------------------|
| Housing           | IP67/IK10            |
| Dimensions/Weight | Φ143mmX108.4mm/1100g |

### AI Motorized Pro Bullet Camera

| Model             | MS-C2962-R(T)F(I)PA(2MP)                                                          | MS-C2962-RF(I)PC(2MP)                                                             | MS-C5362-F(I)PA(5MP)                                                               | MS-C8162-F(I)PA(4K)                                                                 |
|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Appearance        |  |  |  |  |
| Image Sensor      | 1/2.8" Progressive Scan CMOS                                                      |                                                                                   |                                                                                    |                                                                                     |
| Min. Illumination | Color: <a href="#">0.005Lux@F1.4</a><br>B/W: 0Lux with IR on                      |                                                                                   | Color: <a href="#">0.008Lux@F1.4</a><br>B/W: 0Lux with IR on                       | Color: <a href="#">0.012Lux@F1.4</a><br>B/W: 0Lux with IR on                        |
| WDR               | 120dB Super WDR                                                                   | 140dB Super WDR                                                                   | 120dB Super WDR                                                                    |                                                                                     |
| Lens              | Motorized <a href="#">2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4</a><br>P-Iris(Optional)   |                                                                                   |                                                                                    | Motorized <a href="#">2.7~13.5mm@F1.4</a><br>P-Iris(Optional)                       |
| Field of View     | H92°~H32°/D107°~D37°/V51°~V18° (2.7~13.5mm)                                       |                                                                                   | H89°~H30°/D111°~D37°/V66°~V22° (2.7~13.5mm)                                        | H96°~H33°/ D112°~D37°/ 53°~V18°                                                     |
| Shutter Time      | 1/100000s~1s                                                                      |                                                                                   |                                                                                    |                                                                                     |
| IR Distance       | Up to 60m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)                               |                                                                                   |                                                                                    | Up to 60m                                                                           |

|                       |                          |                                                                                                                                                                    |                    |                    |                    |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
|                       | S/N                      | >55dB                                                                                                                                                              |                    |                    |                    |
| Video                 | Max. Image Resolution    | 60fps@ (1920×1080)<br>90fps@ (1920×1080) (Optional for T Series)                                                                                                   | 60fps@ (1920×1080) | 30fps@ (2592×1944) | 30fps@ (3840×2160) |
|                       | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                    |                    |                    |
|                       | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                    |                    |                    |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                    |                    |                    |
|                       | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                    |                    |                    |
| Audio                 | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                              |                    |                    |                    |
|                       | Audio I/O                | 1/1                                                                                                                                                                |                    |                    |                    |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                    |                    |                    |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |                    |                    |                    |
|                       | Alarm I/O                | 1/1                                                                                                                                                                |                    |                    |                    |
|                       | Storage                  | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256 G                                                                              |                    |                    |                    |
|                       |                          |                                                                                                                                                                    |                    |                    |                    |

|         |                               |                                                                                                                                     |                                                                                                                                                 |                                                                                                                                     |
|---------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| System  | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|         | Event Trigger                 | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                          |                                                                                                                                                 |                                                                                                                                     |
|         | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                        |                                                                                                                                                 |                                                                                                                                     |
| General | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                    |                                                                                                                                                 |                                                                                                                                     |
|         | Power Supply                  | PoE (802.3af) / DC 12V±10%                                                                                                          |                                                                                                                                                 |                                                                                                                                     |
|         | Housing                       | IP67                                                                                                                                |                                                                                                                                                 |                                                                                                                                     |
|         | Dimensions/Weight             | 134mmX126mmX285mm/1080g                                                                                                             |                                                                                                                                                 |                                                                                                                                     |

#### AI 4X/12X Pro Bullet Plus Camera

|  |              |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Model        | MS-C2866-X4R(T)P<br>A(2MP)                                                          | MS-C2866-X4RPC(2<br>MP)                                                             | MS-C2966-X12R(T)P<br>A(2MP)                                                          | MS-C2966-X12R(T)P<br>C(2MP)                                                           |
|  | Appearance   |  |  |  |  |
|  | Image Sensor | 1/2" Progressive Scan CMOS                                                          |                                                                                     | 1/2.8" Progressive Scan CMOS                                                         |                                                                                       |
|  |              |                                                                                     |                                                                                     |                                                                                      |                                                                                       |

|                 |                               |                                                                                                                                                                        |                   |                                                                   |                                                                        |
|-----------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------|------------------------------------------------------------------------|
| Ca<br>me<br>ra  | Min. Illumi<br>nation         | Color: <u>0.002Lux@F1.6</u><br>B/W: 0Lux with IR on                                                                                                                    |                   | Color: <u>0.005Lux@F1.6</u><br>B/W: 0Lux with IR on               |                                                                        |
|                 | WDR                           | 120dB Super WDR                                                                                                                                                        | 140dB Super WDR   | 120dB Super WDR                                                   | 140dB Super WDR<br>(Super WDR Pro is o<br>ptional for T Series)        |
|                 | Lens                          | 8~32mm, 4X Optical Zoom                                                                                                                                                |                   | 5.3~64mm, 12X Optical Zoom                                        |                                                                        |
|                 | Field of Vi<br>ew             | H44°~H13°/D51°~D15°/V25°~V7°                                                                                                                                           |                   | H44°~H13°/D51°~D15°/V25°~V7°                                      |                                                                        |
|                 | Shutter Ti<br>me              | 1/100000s~1s                                                                                                                                                           |                   |                                                                   |                                                                        |
|                 | IR Distan<br>ce               | Up to 180m                                                                                                                                                             |                   |                                                                   |                                                                        |
|                 | S/N                           | >55dB                                                                                                                                                                  |                   |                                                                   |                                                                        |
| Vi<br>de<br>o   | Max. Ima<br>ge Resolutio<br>n | 60fps@(1920×1080)<br>90fps@(1920×1080)(<br>Optional for T Series)                                                                                                      | 60fps@(1920×1080) | 60fps@(1920×1080)<br>90fps@(1920×1080)(<br>Optional for T Series) | 60fps@(1920×1080)<br>100fps@(1920×1080)<br>(Optional for T Series<br>) |
|                 | Video Co<br>mpression         | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                                  |                   |                                                                   |                                                                        |
|                 | Video Bit<br>Rate             | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                      |                   |                                                                   |                                                                        |
| Ne<br>tw<br>ork | Ethernet                      | 1*RJ45 10M/100M Ethernet Port                                                                                                                                          |                   |                                                                   |                                                                        |
|                 | Protocol                      | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FT<br>P, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |                                                                   |                                                                        |
| Au<br>dio       | Audio Co<br>mpression         | G.711/AAC/G.722/G.726                                                                                                                                                  |                   |                                                                   |                                                                        |
|                 |                               |                                                                                                                                                                        |                   |                                                                   |                                                                        |

|                       |                               |                                                                                                                                     |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|-----------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Audio I/O                     | 1/1                                                                                                                                 |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
| Intelligent Analytics | Video Analysis                | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|                       | Face Detection                | —                                                                                                                                   | Detect and capture faces, get real-time snapshots                                                                                               | —                                                                                                                                   | Detect and capture faces, get real-time snapshots                                                                                               |
|                       | People Counting & Report      | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
| System                | Alarm I/O                     | 1/1                                                                                                                                 |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|                       | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|                       | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|                       | Event Trigger                 | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                          |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|                       | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                        |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
| General               | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)<br>-60°C~60°C(Optional for Heater Version)/0~90%(Non-condensing)                                   |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |
|                       | Power Supply                  | PoE (802.3at) / DC 12V±10%                                                                                                          |                                                                                                                                                 |                                                                                                                                     |                                                                                                                                                 |

|  |                   |                         |
|--|-------------------|-------------------------|
|  | Housing           | IP67/IK10               |
|  | Dimensions/Weight | 320mmX134mmX126mm/1447g |

### AI Motorized Pro Bullet Plus Camera

|        |                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|--------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|        | Model             | MS-C2966- R(T)<br>F(I)PA(2MP)                                                     | MS-<br>C2966-RF(I)<br>PC(2MP)                                                     | MS-C5366-F(I)<br>PA(5MP)                                                          | MS-C8166-F(I)<br>PA(4K)                                                            | MS-C8266-F(I)PA(4K)                                                                 |
| Camera | Appearance        |  |  |  |  |  |
|        | Image Sensor      | 1/2.8" Progressive Scan CMOS                                                      |                                                                                   |                                                                                   |                                                                                    | 1/1.8" Progressive Scan CMOS                                                        |
|        | Min. Illumination | Color: 0.005Lux@F1.4<br>B/W: 0Lux with IR on                                      |                                                                                   | Color:<br>0.008Lux@F1.4<br>B/W: 0Lux with IR on                                   | Color: 0.012Lux@F1.4<br>B/W: 0Lux with IR on                                       | Color:<br>0.009Lux@F1.4<br>B/W: 0Lux with IR on                                     |
|        | WDR               | 120dB Super WDR                                                                   | 140dB Super WDR                                                                   | 120dB Super WDR                                                                   |                                                                                    |                                                                                     |
|        | Lens              | Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)                      |                                                                                   |                                                                                   | Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)                                         | Motorized 3.6~10mm@F1.4 P-Iris(Optional)                                            |
|        | Field of View     | H113°~H33°/D130°~D38°/V60°~V18° (2.7~13.5mm)                                      |                                                                                   | H113°~H33°/D138°~D42°/V83°~V25° (2.7~13.5mm)                                      | H110°~H33°/D118°~D38°/V60°~V18°                                                    | H116°~H48°/D134°~D55°/V65°~V27°                                                     |
|        | Shutter Time      | 1/100000s~1s                                                                      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |

|                       |                       |                                                                                                                                                              |                                                   |                   |                   |
|-----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------|-------------------|
|                       | IR Distance           | Up to 65m(3.0~10.5mm/2.7~13.5mm), Up to 100m(7~22mm)                                                                                                         |                                                   |                   | Up to 65m         |
|                       | S/N                   | >55dB                                                                                                                                                        |                                                   |                   |                   |
| Video                 | Max. Image Resolution | 60fps@(1920×1080)<br>90fps@(1920×1080)(Optional for T Series)                                                                                                | 60fps@(1920×1080)                                 | 30fps@(2592×1944) | 30fps@(3840×2160) |
|                       | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                        |                                                   |                   |                   |
|                       | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                            |                                                   |                   |                   |
| Network               | Ethernet              | 1*RJ45 10M/100M Ethernet Port                                                                                                                                |                                                   |                   |                   |
|                       | Protocol              | IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                   |                   |                   |
| Audio                 | Audio Compression     | G.711/AAC/G.722/G.726                                                                                                                                        |                                                   |                   |                   |
|                       | Audio I/O             | 1/1                                                                                                                                                          |                                                   |                   |                   |
| Intelligent Analytics | Video Analysis        | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                          |                                                   |                   |                   |
|                       | Face Detection        | —                                                                                                                                                            | Detect and capture faces, get real-time snapshots | —                 |                   |
|                       |                       |                                                                                                                                                              |                                                   |                   |                   |



|         |                                |                                                                                                                                     |                                                                                                                                                                                  |                                                                                                                                     |
|---------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|         | People Counting & Report       | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                |                                                                                                                                                                                  |                                                                                                                                     |
| System  | Alarm I/O                      | 1/1                                                                                                                                 |                                                                                                                                                                                  |                                                                                                                                     |
|         | Storage                        | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                |                                                                                                                                                                                  |                                                                                                                                     |
|         | Advanced Function              | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|         | Event Trigger                  | Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.                                                          |                                                                                                                                                                                  |                                                                                                                                     |
|         | Event Action                   | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                        |                                                                                                                                                                                  |                                                                                                                                     |
| General | Working Temperature / Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                    |                                                                                                                                                                                  |                                                                                                                                     |
|         | Power Supply                   | PoE (802.3af) / DC 12V±10%                                                                                                          |                                                                                                                                                                                  |                                                                                                                                     |
|         | Housing                        | IP67/IK10                                                                                                                           |                                                                                                                                                                                  |                                                                                                                                     |
|         |                                |                                                                                                                                     |                                                                                                                                                                                  |                                                                                                                                     |

|  |                       |                         |
|--|-----------------------|-------------------------|
|  | Dimension<br>s/Weight | 320mmx108mmx126mm/1630g |
|--|-----------------------|-------------------------|

## AI Pro Box Plus Camera

|        | Model                 | MS-C2852-RPA(2MP)                                                                 | MS-C2952-RPA(2MP)                                                                 | MS-C2952-RPC(2MP)                                                                 | MS-C5352-PA(5MP)                                                                    | MS-C8152-PA(4K)                                                                     |
|--------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Camera | Appearance            |  |  |  |  |  |
|        | Image Sensor          | 1/2" Progressive Scan CMOS                                                        | 1/2.8" Progressive Scan CMOS                                                      |                                                                                   | 1/2.8" Progressive Scan CMOS                                                        |                                                                                     |
|        | Min. Illumination     | Color: <a href="#">0.001Lux@F1.2</a><br>B/W: <a href="#">0.0005Lux@F1.2</a>       | Color: <a href="#">0.002Lux@F1.2</a><br>B/W: <a href="#">0.001Lux@F1.2</a>        |                                                                                   | Color: <a href="#">0.005Lux@F1.2</a><br>B/W: <a href="#">0.002Lux@F1.2</a>          | Color: <a href="#">0.01Lux@F1.2</a><br>W: <a href="#">0.005Lux@F1.2</a>             |
|        | WDR                   | 120dB Super WDR                                                                   |                                                                                   | 140dB Super WDR                                                                   | 120dB Super WDR                                                                     |                                                                                     |
|        | Iris                  | P-Iris/DC-Iris                                                                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|        | Shutter Time          | 1/100000s~1s                                                                      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|        | S/N                   | >55dB                                                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|        | Max. Image Resolution | 60fps@(1920×1080)                                                                 |                                                                                   | 60fps@(1920×1080)                                                                 | 30fps@(2592×1944)                                                                   | 30fps@(3840×2160)                                                                   |
| Video  | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|        | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |

|                       |                               |                                                                                                                                                                    |                                                                                                                                                 |                                                                                                                                     |
|-----------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Network               | Ethernet                      | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                                                                                                                 |                                                                                                                                     |
|                       | Protocol                      | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                                                                                                                 |                                                                                                                                     |
| Audio                 | Audio Compression             | G.711/AAC/G.722/G.726                                                                                                                                              |                                                                                                                                                 |                                                                                                                                     |
| Intelligent Analytics | Video Analysis                | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                                                                                                                 |                                                                                                                                     |
|                       | Face Detection                | —                                                                                                                                                                  | Detect and capture faces, get real-time snapshots                                                                                               | —                                                                                                                                   |
|                       | People Counting & Report      | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |                                                                                                                                                 |                                                                                                                                     |
| System                | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                                                                                                                 |                                                                                                                                     |
|                       | Advanced Function             | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                                | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark | Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|                       | Event Trigger                 | Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.                                                                                         |                                                                                                                                                 |                                                                                                                                     |
|                       | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.                                                                       |                                                                                                                                                 |                                                                                                                                     |
| General               | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                   |                                                                                                                                                 |                                                                                                                                     |
|                       |                               |                                                                                                                                                                    |                                                                                                                                                 |                                                                                                                                     |

|         |                   |                            |
|---------|-------------------|----------------------------|
| General | Power Supply      | PoE (802.3af) / DC 12V±10% |
|         | Dimensions/Weight | 130mmX75mmX66mm/366g       |



### AI PTZ Series

- 360° Endless Pan, 95° Tilt
- Up to 42X Optical Zoom
- 1/1.8" STARVIS Starlight Sensor
- 4K High Resolution
- 0.002Lux Starlight
- 3 in 1 Super WDR Pro – 140dB
- Up to 100fps High Frame Rate
- Smart IR II Technology Auto Tracking
- Intelligent 3D Positioning
- Smart Rain-sensing Wiper
- Versatile Interfaces



### AI 12X PTZ Bullet Camera

|  |       |                         |                     |
|--|-------|-------------------------|---------------------|
|  | Model | MS-C2961-X12R(T)PC(2MP) | MS-C5361-X12PC(5MP) |
|--|-------|-------------------------|---------------------|

|        |                          |                                                                                                                                                                      |                                                              |
|--------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Camera | Appearance               |   |                                                              |
|        | Image Sensor             | 1/2.8" Progressive Scan CMOS                                                                                                                                         |                                                              |
|        | Min. Illumination        | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                                                                                                         | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on |
|        | WDR                      | 140dB Super WDR (Super WDR Pro is optional for T Series)                                                                                                             | 120dB Super WDR                                              |
|        | Lens                     | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom, 16X Digital Zoom                                                                                                               |                                                              |
|        | Field of View            | H61°~H5°/D69°~D5°/V36°~V2°                                                                                                                                           | H57°~H4°/D69°~D5°/V44°~V1°                                   |
|        | Minimum Working Distance | 1000~1500mm (Wide/Tele)                                                                                                                                              |                                                              |
|        | Shutter Time             | 1/100000s~1s                                                                                                                                                         |                                                              |
|        | IR Distance              | Up to 140m                                                                                                                                                           |                                                              |
|        | S/N                      | >55dB                                                                                                                                                                |                                                              |
| PTZ    | Pan Range/Speed          | 360°endless; Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s                                                                                                   |                                                              |
|        | Tilt Range/Speed         | -45°~30°; Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/s                                                                                                    |                                                              |
|        | Preset Quantity          | 300                                                                                                                                                                  |                                                              |
|        | Patrol/Pattern           | 8 Patrols, up to 48 presets each patrol, 4 Patterns                                                                                                                  |                                                              |

|                       |                          |                                                                                                                                                              |                   |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Video                 | Max. Image Resolution    | 60fps@(1920×1080),<br>100fps@(1920×1080)(Optional for T Series)                                                                                              | 30fps@(2592×1944) |
|                       | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                        |                   |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                |                   |
|                       | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |
| Audio                 | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                        |                   |
|                       | Audio I/O                | 1/1 (Optional)                                                                                                                                               |                   |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                          |                   |
|                       | Face Detection           | Detect and capture faces, get real-time snapshots                                                                                                            |                   |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                         |                   |
| System                | Alarm I/O                | 1/1 (Optional)                                                                                                                                               |                   |
|                       | Storage                  | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                         |                   |
|                       | Advanced Function        | BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                                         |                   |
|                       | Event Trigger            | Motion Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional), etc.                                                             |                   |
|                       |                          |                                                                                                                                                              |                   |

|         |                                |                                                                                                                                |
|---------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|         | Event Action                   | FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc. |
| General | Working Temperature / Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                               |
|         | Power Supply                   | PoE (802.3at) / DC 12V/2A±10%                                                                                                  |
|         | Housing                        | IP66                                                                                                                           |
|         | Dimensions/Weight              | 160mmX273.5mmX210mm/2Kg (Wall Mount) 218mmX120mmX172mm/1.8Kg (Pestal Mount)                                                    |

### AI 12X PTZ Bullet Camera

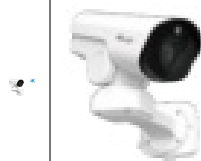
|        |                          |                                                                                     |                                                                                      |
|--------|--------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|        | Model                    | MS-C2961-X12R(T)(P)E(2MP)                                                           | MS-C5361-X12(P)E(5MP)                                                                |
| Camera | Appearance               |  |  |
|        | Image Sensor             | 1/2.8" Progressive Scan CMOS                                                        |                                                                                      |
|        | Min. Illumination        | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                        | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                         |
|        | WDR                      | 140dB Super WDR                                                                     | 120dB Super WDR                                                                      |
|        | Lens                     | 5.3~64mm, 12X Optical Zoom, 16X Digital Zoom                                        |                                                                                      |
|        | Field of View            | H61°~H5°/D69°~D5°/V36°~V2°                                                          | H57°~H4°/D69°~D5°/V44°~V1°                                                           |
|        | Minimum Working Distance | 1000/1500mm (Wide/Tele)                                                             |                                                                                      |

|         |                       |                                                                                                                                                                    |                   |
|---------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|         | Shutter Time          | 1/100000s~1s                                                                                                                                                       |                   |
|         | IR Distance           | Up to 140m                                                                                                                                                         |                   |
|         | S/N                   | >55dB                                                                                                                                                              |                   |
| PTZ     | Pan Range/Speed       | 360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s                                                                                                |                   |
|         | Tilt Range/Speed      | -45°~30° / Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/s                                                                                                 |                   |
|         | Preset Quantity       | 300                                                                                                                                                                |                   |
|         | Patrol/Pattern        | 8 Patrols, up to 48 presets each patrol, 4 Patterns                                                                                                                |                   |
| Video   | Max. Image Resolution | 60fps@(1920×1080), 90fps@(1920×1080)(Optional for T Series)                                                                                                        | 30fps@(2592×1944) |
|         | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                   |
| Network | Ethernet              | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                   |
|         | Protocol              | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |
| Audio   | Audio Compression     | G.711/AAC/G.722/G.726                                                                                                                                              |                   |
|         | Audio I/O             | 1/1 (Optional)                                                                                                                                                     |                   |
| Intelli | Video Analysis        | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                   |



|                                   |                                      |                                                                                                                                      |
|-----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| ge<br>nt<br>An<br>aly<br>tic<br>s | Face Detec<br>tion                   | —                                                                                                                                    |
|                                   | People Co<br>unting & R<br>eport     | Count the number of people entering or exiting, up to 4 detection areas for regional people c<br>ounting                             |
| Sy<br>ste<br>m                    | Alarm I/O                            | 1/1 (Optional)                                                                                                                       |
|                                   | Storage                              | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to<br>256G                                              |
|                                   | Advanced<br>Function                 | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti<br>-flicker, Corridor Mode, Deblur, Watermark |
|                                   | Event Trigg<br>er                    | Motion Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional),<br>etc.                                  |
|                                   | Event Actio<br>n                     | FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White<br>LED, PTZ Motion, HTTP Notification, etc.    |
| Ge<br>ne<br>ral                   | Working Te<br>mperature<br>/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                     |
|                                   | Power Sup<br>ply                     | PoE (802.3at) / DC 12V/2A±10%                                                                                                        |
|                                   | Housing                              | IP66                                                                                                                                 |
|                                   | Dimension<br>s/Weight                | 160mmX273.5mmX210mm/2Kg (Wall Mount) 218mmX120mmX172mm/1.8Kg (Pedestal Mo<br>unt)                                                    |

#### AI 5X/20X/23X PTZ Bullet Plus Camera

|                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   | Model                                                                             | MS-C2867- 20TPC(2MP)                                                              | MS-C2967-X23R(T)PC(2MP)                                                            | MS-C5367-X23PC(5MP)                                                                 | MS-C8267-X20PC(4K)                                                                  |
| Appearance        |  |  |  |  |  |
| Image Sensor      | 1/2" Progressive Scan CMOS                                                        | 1/2.8" Progressive Scan CMOS                                                      |                                                                                    |                                                                                     | 1/1.8" Progressive Scan CMOS                                                        |
| Min. Illumination | Color: 0.002Lux@F1.6<br>B/W: 0Lux with IR on                                      | Color: 0.005Lux@F1.5<br>B/W: 0Lux with IR on                                      | Color: 0.008Lux@F1.5<br>B/W: 0Lux with IR on                                       | Color: 0.009Lux@F1.7<br>B/W: 0Lux with IR on                                        | Color B/W: 0Lux with IR on                                                          |
| WDR               | 140dB Super WDR Pro                                                               | 140dB Super WDR<br>(Super WDR Pro is optional for T Series)                       | 120dB Super WDR                                                                    |                                                                                     |                                                                                     |
|                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

|                            |               |                                                         |                                                       |                                                                                                                                                                                                                        |                                                         |
|----------------------------|---------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| C<br>a<br>m<br>e<br>r<br>a | Lens          | 6.4~128mm@F1.6~F4.0, 20X Optical Zoom, 16X Digital Zoom | 5~117mm@F1.5~F3.5, 23X Optical Zoom, 16X Digital Zoom | 1<br>1<br>~<br>5<br>5<br>m<br>m<br>@<br>F<br>1.<br>7<br>~<br>F<br>2.<br>1,<br>5<br>X<br>O<br>p<br>t<br>i<br>c<br>a<br>l<br>Z<br>o<br>o<br>m<br>,<br>1<br>6<br>X<br>D<br>i<br>g<br>i<br>t<br>a<br>l<br>Z<br>o<br>o<br>m | 6.4~128mm@F1.6~F4.0, 20X Optical Zoom, 16X Digital Zoom |
|                            | Field of View | H60°~H3°/D67°~D4°/<br>V37°~V1°                          | H60°~H3°/D69°~D4°/<br>V35°~V2°                        | H<br>3<br>6°<br>~<br>8°<br>/D<br>4<br>1°<br>~<br>D<br>9°<br>/<br>V<br>2<br>1°<br>~<br>V<br>5°                                                                                                                          | H60°~H3°/D67°~D4°/<br>V37°~V1°                          |

|                                                                                                  |                          |                                                                                                                                                              |                         |                         |
|--------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|
|                                                                                                  | Minimum Working Distance | 1000~2000mm (Wide/Tele)                                                                                                                                      | 1000~1500mm (Wide/Tele) | 1000~2000mm (Wide/Tele) |
|                                                                                                  | Shutter Time             | 1/100000s~1s                                                                                                                                                 |                         |                         |
|                                                                                                  | IR Distance              | Up to 180m                                                                                                                                                   |                         |                         |
|                                                                                                  | S/N                      | >55dB                                                                                                                                                        |                         |                         |
| P<br>T<br>Z                                                                                      | Pan Range/Speed          | 360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s                                                                                          |                         |                         |
|                                                                                                  | Tilt Range/Speed         | -45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s                                                                                           |                         |                         |
|                                                                                                  | Preset Quantity          | 300                                                                                                                                                          |                         |                         |
|                                                                                                  | Patrol/Pattern           | 8 Patrols, up to 48 presets each patrol, 4 Patterns                                                                                                          |                         |                         |
| V<br>i<br>d<br>e<br>o                                                                            | Max. Image Resolution    | 60fps@(1920×1080), 100fps@(1920×1080)(Optional for T Series)                                                                                                 | 30fps@(2592×1944)       | 30fps@(3840×2160)       |
|                                                                                                  | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                        |                         |                         |
| N<br>e<br>t<br>w<br>o<br>r<br>k                                                                  | Ethernet                 | 1×RJ45 10M/100M Ethernet Port                                                                                                                                |                         |                         |
|                                                                                                  | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                         |                         |
| A<br>u<br>d<br>i<br>o                                                                            | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                        |                         |                         |
|                                                                                                  | Audio I/O                | 1/1                                                                                                                                                          |                         |                         |
| I<br>n<br>t<br>e<br>l<br>l<br>i<br>g<br>e<br>n<br>t<br>A<br>n<br>a<br>l<br>y<br>t<br>i<br>c<br>s | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                          |                         |                         |
|                                                                                                  | Face Detection           | Detect and capture faces, get real-time snapshots                                                                                                            |                         |                         |
|                                                                                                  | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                         |                         |                         |
|                                                                                                  | Alarm I/O                | 1/1                                                                                                                                                          |                         |                         |

|         |                              |                                                                                                                                       |
|---------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| System  | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                  |
|         | Advanced Function            | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |
|         | Event Trigger                | Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.                                                            |
|         | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.                   |
| General | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                      |
|         | Power Supply                 | PoE (802.3at) / DC 12V/3A±10%                                                                                                         |
|         | Housing                      | IP66                                                                                                                                  |
|         | Dimensions /Weight           | 110mmX337mmX220mm/2.9Kg                                                                                                               |

#### AI 12X/20X/23X PTZ Dome Camera

|            | Model             | MS-C2971-X12R(T)PC (2MP)                                     | MS-C2871-X20TPC(2MP)                                         | MS-C2971-X23R(T)PC(2MP)                                      | MS-C5371-X12PC(5MP)                                          |
|------------|-------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Appearance | Image Sensor      | 1/2.8" Progressive Scan CMOS                                 | 1/2" Progressive Scan CMOS                                   | 1/2.8" Progressive Scan CMOS                                 |                                                              |
|            | Min. Illumination | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on | Color: <a href="#">0.002Lux@F1.6</a><br>B/W: 0Lux with IR on | Color: <a href="#">0.005Lux@F1.5</a><br>B/W: 0Lux with IR on | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on |
|            | WDR               | 140dB Super WDR (Super WDR Pro is optional for T Series)     | 140dB Super WDR Pro                                          | 140dB Super WDR (Super WDR Pro is optional for T Series)     | 120dB Super WDR                                              |
|            |                   |                                                              |                                                              |                                                              |                                                              |
| Camera     |                   |                                                              |                                                              |                                                              |                                                              |

|        |                          |                                                                                |                                                         |                                                       |                                                        |
|--------|--------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| Camera | Lens                     | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom, 16X Digital Zoom                         | 6.4~128mm@F1.6~F4.0, 20X Optical Zoom, 16X Digital Zoom | 5~117mm@F1.5~F3.5, 23X Optical Zoom, 16X Digital Zoom | 5.3~64mm@F1.6~F2.8, 12X Optical Zoom, 16X Digital Zoom |
|        | Field of View            | H61°~H5°/D69°~D5°/V36°~V2°                                                     | H60°~H3°/D67°~D4°/V37°~V1°                              | H60°~H3°/D69°~D4°/V35°~V2°                            | H57°~H4°/D69°~D5°/V44°~V1°                             |
|        | Minimum Working Distance | 1000~1500mm (Wide/Tele)                                                        | 100~2000mm (Wide/Tele)                                  | 100~1500mm (Wide/Tele)                                |                                                        |
|        | Shutter Time             | 1/100000s~1s                                                                   |                                                         |                                                       |                                                        |
|        | IR Distance              | Up to 160m                                                                     |                                                         |                                                       |                                                        |
|        | S/N                      | >55dB                                                                          |                                                         |                                                       |                                                        |
| PTZ    | Pan Range/Speed          | 360° endless; Pan Manual Speed: 0.1°~450°/s, Pan Preset Speed: 450°/s          |                                                         |                                                       |                                                        |
|        | Tilt Range/Speed         | -5°~90° (Auto Flip); Tilt Manual Speed: 0.1°~360°/s, Tilt Preset Speed: 360°/s |                                                         |                                                       |                                                        |
|        | Preset Quantity          | 300                                                                            |                                                         |                                                       |                                                        |
|        | Patrol/Pattern           | 8 Patrols, up to 48 presets each patrol, 4 Patterns                            |                                                         |                                                       |                                                        |
| Video  | Max. Image Resolution    | 60fps@(1920×1080), 100fps@(1920×1080)(Optional for T Series)                   |                                                         |                                                       | 30fps@(2592×1944)                                      |
|        | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                          |                                                         |                                                       |                                                        |

|                       |                              |                                                                                                                                                                    |
|-----------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network               | Ethernet                     | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |
|                       | Protocol                     | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |
| Audio                 | Audio Compression            | G.711/AAC/G.722/G.726                                                                                                                                              |
|                       | Audio I/O                    | 1/1                                                                                                                                                                |
| Intelligent Analytics | Video Analysis               | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |
|                       | Face Detection               | Detect and capture faces, get real-time snapshots                                                                                                                  |
|                       | People Counting & Report     | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |
| System                | Alarm I/O                    | 1/1                                                                                                                                                                |
|                       | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |
|                       | Advanced Function            | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                              |
|                       | Event Trigger                | Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.                                                                                         |
|                       | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.                                                           |
|                       | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                   |

|         |                   |                               |
|---------|-------------------|-------------------------------|
| General | Power Supply      | PoE (802.3at) / DC 12V/3A±10% |
|         | Housing           | IP66/IK10                     |
|         | Surge Protection  | 4KV                           |
|         | Dimensions/Weight | Φ183mmX174.8mm/2Kg            |

#### AI 12X/20X/23X PTZ Dome Network Camera

|        | Model                    | MS-C2871-X20TPE(2MP)                                                               | MS-C2971-X12R(T)PE(2MP)                                                            | MS-C2971-X23R(T)PE(2MP)                                                             | MS-C5371-X12PE(5MP)                                                                  |
|--------|--------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera | Appearance               |  |  |  |  |
|        | Image Sensor             | 1/2" Progressive Scan CMOS                                                         | 1/2.8" Progressive Scan CMOS                                                       |                                                                                     |                                                                                      |
|        | Min. Illumination        | Color: <a href="#">0.002Lux@F1.6</a><br>B/W: 0Lux with IR on                       | Color: <a href="#">0.005Lux@F1.6</a><br>B/W: 0Lux with IR on                       | Color: <a href="#">0.005Lux@F1.5</a><br>B/W: 0Lux with IR on                        | Color: <a href="#">0.008Lux@F1.6</a><br>B/W: 0Lux with IR on                         |
|        | WDR                      | 140dB Super WDR                                                                    |                                                                                    |                                                                                     | 120dB Super WDR                                                                      |
|        | Lens                     | 6.4~128mm, 20X Optical Zoom, 16X Digital Zoom                                      | 5.3~64mm, 12X Optical Zoom, 16X Digital Zoom                                       | 5~117mm, 23X Optical Zoom, 16X Digital Zoom                                         | 5.3~64mm, 12X Optical Zoom, 16X Digital Zoom                                         |
|        | Field of View            | H60°~H3°/D67°~D4°/V37°~V1°                                                         | H61°~H5°/D69°~D5°/V36°~V2°                                                         | H60°~H3°/D69°~D4°/V35°~V2°                                                          | H57°~H4°/D69°~D5°/V44°~V1°                                                           |
|        | Minimum Working Distance | 100/2000mm(Wide/Tele)                                                              | 1000/1500mm(Wide/Tele)                                                             | 100/1500mm (Wide/Tele)                                                              | 1000/1500mm(Wide/Tele)                                                               |
|        | Shutter Time             | 1/1000000s~1s                                                                      |                                                                                    |                                                                                     |                                                                                      |
|        | IR Distance              | Up to 160m                                                                         |                                                                                    |                                                                                     |                                                                                      |
|        | S/N                      | >55dB                                                                              |                                                                                    |                                                                                     |                                                                                      |
|        | Pan Range/Speed          | 360° endless; Pan Manual Speed: 0.1°~450°/s, Pan Preset Speed: 450°/s              |                                                                                    |                                                                                     |                                                                                      |



|                       |                               |                                                                                                                                                                    |                                                             |                   |
|-----------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------|
| PTZ                   | Tilt Range/Speed              | -5°~90° (Auto Flip); Tilt Manual Speed: 0.1°~360°/s, Tilt Preset Speed: 360°/s                                                                                     |                                                             |                   |
|                       | Preset Quantity               | 300                                                                                                                                                                |                                                             |                   |
|                       | Patrol/Pattern                | 8 Patrols, up to 48 presets each patrol, 4 Patterns                                                                                                                |                                                             |                   |
| Video                 | Max. Image Resolution         | 90fps@(1920×1080)                                                                                                                                                  | 60fps@(1920×1080), 90fps@(1920×1080)(Optional for T Series) | 30fps@(2592×1944) |
|                       | Video Compression             | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                                                             |                   |
|                       | Ethernet                      | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                                                             |                   |
| Network               | Ethernet                      | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                                                             |                   |
|                       | Protocol                      | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                                                             |                   |
| Audio                 | Audio Compression             | G.711/AAC/G.722/G.726                                                                                                                                              |                                                             |                   |
|                       | Audio I/O                     | 1/1                                                                                                                                                                |                                                             |                   |
| Intelligent Analytics | Video Analysis                | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                                                             |                   |
|                       | Face Detection                | —                                                                                                                                                                  |                                                             |                   |
|                       | People Counting & Report      | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |                                                             |                   |
| System                | Alarm I/O                     | 1/1                                                                                                                                                                |                                                             |                   |
|                       | Storage                       | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                                               |                                                             |                   |
|                       | Advanced Function             | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark                                   |                                                             |                   |
|                       | Event Trigger                 | Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.                                                                                         |                                                             |                   |
|                       | Event Action                  | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.                                                           |                                                             |                   |
| General               | Working Temperature /Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                                                   |                                                             |                   |
|                       | Power Supply                  | PoE (802.3at) / DC 12V/3A±10%                                                                                                                                      |                                                             |                   |
|                       | Housing                       | IP66/IK10                                                                                                                                                          |                                                             |                   |

|  |                       |                    |
|--|-----------------------|--------------------|
|  | Dimension<br>s/Weight | Φ183mmX174.8mm/2Kg |
|--|-----------------------|--------------------|

## AI 23X/30X Speed Dome Camera

|        | Model                    | MS-C2941-X23R(T)<br>PC(2MP)                                                       | MS-C2941- X30R(T)<br>PC/W (2MP)                                                   | MS-C5341-X23PC(5<br>MP)                                                            | MS-C5341-X30PC/<br>W (5MP)                                                          |
|--------|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|        | Appearance               |  |  |  |  |
|        | Image Sensor             | 1/2.8" Progressive Scan CMOS                                                      |                                                                                   |                                                                                    |                                                                                     |
|        | Min. Illumination        | Color: <a href="#">0.005Lux@F1.5</a> , B/W: 0Lux with IR on                       |                                                                                   | Color: <a href="#">0.008Lux@F1.5</a> , B/W: 0Lux with IR on                        |                                                                                     |
|        | WDR                      | 140dB Super WDR (Super WDR Pro is optional for T Series)                          |                                                                                   | 120dB Super WDR                                                                    |                                                                                     |
| Camera | Lens                     | 5~117mm, 23X Optical Zoom, 16X Digital Zoom                                       | 4.7~141mm, 30X Optical Zoom, 16X Digital Zoom                                     | 5~117mm, 23X Optical Zoom, 16X Digital Zoom                                        | 4.7~141mm, 30X Optical Zoom, 16X Digital Zoom                                       |
|        | Field of View            | H60°~H3°/D69°~D4° / V35°~V2°                                                      | H62°~H3°/D70°~D3° / V37°~V1°                                                      | H55°~H3°/D68°~D4° /V42°~V2°                                                        | H58°~H3°/D71°~D3° /V44°~V2°                                                         |
|        | Minimum Working Distance | 100/1500mm (Wide/Tele)                                                            |                                                                                   |                                                                                    |                                                                                     |
|        | Shutter Time             | 1/100000s~1s                                                                      |                                                                                   |                                                                                    |                                                                                     |
|        | IR Distance              | Up to 200m                                                                        | Up to 200m / Up to 300m (Wiper Version)                                           | Up to 200m                                                                         | Up to 200m / Up to 300m (Wiper Version)                                             |
|        | S/N                      | >55dB                                                                             |                                                                                   |                                                                                    |                                                                                     |

|                       |                          |                                                                                                                                                                    |                   |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| PTZ                   | Pan Range/Speed          | 360°endless / Pan Manual Speed: 0.1°~400°/s, Pan Preset Speed: 400°/s                                                                                              |                   |
|                       | Tilt Range/Speed         | -5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~320°/s, Tilt Preset Speed: 320°/s                                                                                     |                   |
|                       | Preset Quantity          | 300                                                                                                                                                                |                   |
|                       | Patrol/Pattern           | 8 Patrols, up to 48 presets each patrol, 4 Patterns                                                                                                                |                   |
| Video                 | Max. Image Resolution    | 60fps@(1920×1080), 100fps@(1920×1080) (Optional for T Series)                                                                                                      | 30fps@(2592×1944) |
|                       | Video Compression        | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |                   |
|                       | Video Bit Rate           | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |                   |
| Network               | Ethernet                 | 1*RJ45 10M/100M Ethernet Port                                                                                                                                      |                   |
|                       | Protocol                 | IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL |                   |
| Audio                 | Audio Compression        | G.711/AAC/G.722/G.726                                                                                                                                              |                   |
|                       | Audio I/O                | 1/1                                                                                                                                                                |                   |
| Intelligent Analytics | Video Analysis           | Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed                                |                   |
|                       | Face Detection           | Detect and capture faces, get real-time snapshots                                                                                                                  |                   |
|                       | People Counting & Report | Count the number of people entering or exiting, up to 4 detection areas for regional people counting                                                               |                   |
|                       |                          |                                                                                                                                                                    |                   |

|         |                              |                                                                                                                                       |         |   |         |
|---------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|---|---------|
| System  | Alarm I/O                    | 4/2                                                                                                                                   |         |   |         |
|         | Storage                      | NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G                                                  |         |   |         |
|         | Advanced Function            | Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark |         |   |         |
|         | Event Trigger                | Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.                                                            |         |   |         |
|         | Event Action                 | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.                              |         |   |         |
| General | Wiper(Optional)              | —                                                                                                                                     | Support | — | Support |
|         | Working Temperature/Humidity | -40°C~60°C/0~90%(Non-condensing)                                                                                                      |         |   |         |
|         | Power Supply                 | PoE (802.3at) / AC 24V/3A±10%                                                                                                         |         |   |         |
|         | Housing                      | IP66/IK10(Optional)                                                                                                                   |         |   |         |
|         | Dimensions/Weight            | Φ205mmX308mm/4Kg                                                                                                                      |         |   |         |

## Documents / Resources

|                                                                                     |                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">Milesight NVR Multi Megapixel Network Camera</a> [pdf] User Manual<br>NVR Multi Megapixel Network Camera, NVR, Multi Megapixel Network Camera, Megapixel Network Camera, Network Camera |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## References

-  [Milesight | 5G, AI, IoT and LoRaWAN](#)