



# AI LPR Series


Datasheet

|        | Name                    | AI LPR Motorized Mini Bullet Network Camera  |  |
|--------|-------------------------|--|--|
| Camera | Appearance              |    |  |
|        | Model                   | MS-C2964-R(T)F(I)LPC<br>(2MP)  | MS-C5364-F(I)LPC<br>(5MP)  |
|        | Image Sensor            | 1/2.8" Progressive Scan CMOS   |  |
|        | Min. Illumination       | Color: 0.002Lux@F1.2<br>Color: 0.005Lux@F1.4<br>B/W: 0Lux with IR on   | Color: 0.005Lux@F1.2<br>Color: 0.008Lux@F1.4<br>B/W: 0Lux with IR on   |
|        | WDR                     | 140dB Super WDR<br><b>(Super WDR Pro is optional for T Series)</b>   | 120dB Super WDR  |
|        | Shutter Time            | 1/100000s~1s   |  |
|        | IR Distance             | Up to 50m  |  |
|        | Day/Night Mode          | Day/Night/Auto/Customize/Schedule  |  |
|        | S/N                     | >55dB  |  |
| Lens   | Lens                    | Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4<br>P-Iris(Optional)  |  |
|        | Field of View           | H111°~H34°/D130°~D39°/V60°~V19°(2.7~13.5mm)<br>H100°~H33°/D115°~D38°/V54°~V18°(3~10.5mm)<br>H42°~H17°/D48°~D19°/V24°~V9°(7~22mm)   | H99°~H31°/D124°~D38°/V72°~V23°(2.7~13.5mm)<br>H89°~H31°/D111°~D38°/V66°~V23°(3.0~10.5mm)<br>H37°~H15°/D46°~D19°/V28°~V11°(7~22mm)  |
|        | Mount                   | Φ14  |  |
|        | Focus Control           | Auto/Manual  |  |
|        | Iris Control            | Auto/Manual (Optional for I Series)  |  |
| LPR    | Max. Vehicle Speed      | 200km/h  |  |
|        | Recognition Accuracy    | >95%   |  |
|        | Coverage                | Support simultaneous detection of 4 regions  |  |
|        | White/Black List        | Up to 1000 records inside the camera   |  |
|        | Smart Traffic Detection | License Plate Recognition, Plate Type Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection   |  |
| Video  | Max. Image Resolution   | 1920x1080  | 2592x1944  |
|        | Primary Stream          | 60Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>50fps@(1920x1080, 1280x960, 1280x720, 704x576) | 60Hz: 30fps@(2592x1944), 45fps@(2048x1536),<br>60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 25fps@(2592x1944), 45fps@(2048x1536),<br>50fps@(1920x1080, 1280x960, 1280x720, 704x576) |
|        | Secondary Stream        | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)   | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)                               |
|        | Tertiary Stream         | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)                                       |  |
|        | Video Compression       | H.265 <sup>+</sup> /H.265(HEVC)/H.264 <sup>+</sup> /H.264/MJPEG  |  |
|        | Video Bit Rate          | 16Kbps~16Mbps(CBR/VBR Adjustable)  |  |
|        | Privacy Masking         | Up to 28 areas(24 mask areas and 4 mosaic areas)   |  |
|        | ROI                     | Up to 8 areas  |  |
|        | Image Setting           | Brightness/Contrast/Saturation/Sharpness   |  |


|                  |                      |  |
|------------------|----------------------|--|
| <b>Interface</b> | Ethernet             | 1*RJ45 10M/100M Ethernet Port  |
|                  | Audio I/O            | 1/1 (Multi-interface Version)  |
|                  | Alarm I/O            | 1/1 (Multi-interface Version)  |
| <b>Network</b>   | Network Storage      | NAS(Support NFS, SMB/CIFS), ANR  |
|                  | 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 |
| <b>Audio</b>     | Audio Compression    | G.711/AAC/G.722/G.726  |
|                  | Audio Sampling Rate  | 8/16/32/44.1/48KHz   |
|                  | Audio Bit Rate       | 16~256kbps   |
|                  | Two-way Audio        | Support  |
| <b>System</b>    | Storage              | 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   |
|                  | SIP/VoIP Support     | Yes, Voice & Video-over-IP   |
|                  | Event Trigger        | Black/White List, Motion Detection, Network Disconnection, etc.  |
|                  | Event Action         | FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.  |
|                  | System Compatibility | ONVIF Profile G & Q & S & T, API   |
| <b>General</b>   | Working Temperature  | -40°C~60°C   |
|                  | Working Humidity     | 0~90%(Non-condensing)  |
|                  | Power Supply         | PoE (802.3af) / DC 12V±10%   |
|                  | Power Consumption    | 7W MAX   |
|                  |                      | 9W MAX (With IR on)  |
|                  | Weather Proof        | Up to IP67-rated for Weather-resistant Performance   |
|                  | Housing              | Vandal-proof IK10-rated Metal Housing  |
|                  | Weight               | 825g   |
|                  | Dimensions           | Ø76mmX239.5mm  |
| Warranty         | 3/5 Years            |  |

|           | Name                    | AI LPR Motorized Pro Bullet Plus Network Camera  |  |
|-----------|-------------------------|--|--|
| Camera    | Appearance              |   |  |
|           | Model                   | MS-C2966-R(T)F(I)LPC<br>(2MP)  | MS-C5366-F(I)LPC<br>(5MP)  |
|           | Image Sensor            | 1/2.8" Progressive Scan CMOS   |  |
|           | Min. Illumination       | Color: 0.002Lux@F1.2<br>Color: 0.005Lux@F1.4<br>B/W: 0Lux with IR on   | Color: 0.005Lux@F1.2<br>Color: 0.008Lux@F1.4<br>B/W: 0Lux with IR on   |
|           | WDR                     | 140dB Super WDR<br><b>(Super WDR Pro is optional for T Series)</b>   | 120dB Super WDR  |
|           | Shutter Time            | 1/100000s~1s   |  |
|           | IR Distance             | Up to 65m(3.0~10.5mm/2.7~13.5mm)<br>Up to 100m(7~22mm)   |  |
|           | Day/Night Mode          | Day/Night/Auto/Customize/Schedule  |  |
|           | S/N                     | >55dB  |  |
| Lens      | Lens                    | Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4<br>P-Iris(Optional)  |  |
|           | Field of View           | H113°~H33°/D130°~D38°/V60°~V18° (2.7~13.5mm)<br>H104°~H34°/D120°~D39°/V57°~V19° (3.0~10.5mm)<br>H45°~H17°/D53°~D20°/V25°~V9° (7~22mm)  | H113°~H33°/D138°~D42°/V83°~V25° (2.7~13.5mm)<br>H94°~H33°/D116°~D42°/V71°~V25° (3.0~10.5mm)<br>H42°~H16°/D53°~D20°/V32°~V12° (7~22mm)  |
|           | Mount                   | Φ14  |  |
|           | Focus Control           | Auto/Manual  |  |
|           | Iris Control            | Auto/Manual (Optional for I Series)  |  |
| LPR       | Max. Vehicle Speed      | 200km/h  |  |
|           | Recognition Accuracy    | >95%   |  |
|           | Coverage                | Support simultaneous detection of 4 regions  |  |
|           | White/Black List        | Up to 1000 records inside the camera   |  |
|           | Smart Traffic Detection | License Plate Recognition, Plate Type Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection   |  |
| Video     | Max. Image Resolution   | 1920x1080  | 2592x1944  |
|           | Primary Stream          | 60Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>50fps@(1920x1080, 1280x960, 1280x720, 704x576) | 60Hz: 30fps@(2592x1944), 45fps@(2048x1536),<br>60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 25fps@(2592x1944), 45fps@(2048x1536),<br>50fps@(1920x1080, 1280x960, 1280x720, 704x576) |
|           | Secondary Stream        | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)   | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)                               |
|           | Tertiary Stream         | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)                                       |  |
|           | Video Compression       | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG  |  |
|           | Video Bit Rate          | 16Kbps~16Mbps(CBR/VBR Adjustable)  |  |
|           | Privacy Masking         | Up to 28 areas(24 mask areas and 4 mosaic areas)   |  |
|           | ROI                     | Up to 8 areas  |  |
|           | Image Setting           | Brightness/Contrast/Saturation/Sharpness   |  |
|           | Interface               | Ethernet   | 1*RJ45 10M/100M Ethernet Port  |
| Audio I/O |                         | 1/1  |  |
| Alarm I/O |                         | 1/1  |  |

|                |                           |  |                                  |
|----------------|---------------------------|--|----------------------------------|
| <b>Network</b> | Network Storage           | NAS(Support NFS, SMB/CIFS), ANR  |                                  |
|                | 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 |                                  |
| <b>Audio</b>   | Audio Compression         | G.711/AAC/G.722/G.726  |                                  |
|                | Audio Sampling Rate       | 8/16/32/44.1/48KHz   |                                  |
|                | Audio Bit Rate            | 16~256kbps   |                                  |
|                | Two-way Audio             | Support  |                                  |
| <b>System</b>  | Storage                   | 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   |                                  |
|                | SIP/VoIP Support          | Yes, Voice & Video-over-IP   |                                  |
|                | Event Trigger             | Black/White List, 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.   |                                  |
|                | License Plate Recognition | Support  |                                  |
|                | System Compatibility      | ONVIF Profile G & Q & S & T, API   |                                  |
| <b>General</b> | Working Temperature       | -40°C~60°C   |                                  |
|                | Working Humidity          | 0~90%(Non-condensing)  |                                  |
|                | Power Supply              | PoE (802.3af) / DC 12V±10%   |                                  |
|                | Power Consumption         | 8W MAX<br>16W MAX (With IR on)   | 9W MAX<br>12.5W MAX (With IR on) |
|                | Weather Proof             | Up to IP67-rated for Weather-resistant Performance   |                                  |
|                | Housing                   | Vandal-proof IK10-rated Metal Housing  |                                  |
|                | Weight                    | 1630g  |                                  |
|                | Dimensions                | 320mmX134mmX126mm  |                                  |
|                | Warranty                  | 3/5 Years  |                                  |


|                     | Name                        | (Radar) AI LPR 4X/12X Pro Bullet Plus Network Camera   |  |  |
|---------------------|-----------------------------|--|--|--|
| Camera              | Appearance                  |   |  |  |
|                     | Model                       | MS-C2866-X4TL(V)PC<br>(2MP)  | MS-C2966-X12R(T)L(V)PC<br>(2MP)                                      | MS-C5366-X12L(V)PC<br>(5MP)  |
|                     | Image Sensor                | 1/2" Progressive Scan CMOS   | 1/2.8" Progressive Scan CMOS   |  |
|                     | Min. Illumination           | Color: 0.001Lux@F1.2<br>Color: 0.002Lux@F1.6<br>B/W: 0Lux with IR on   | Color: 0.002Lux@F1.2<br>Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on | Color: 0.005Lux@F1.2<br>Color: 0.008Lux@F1.6<br>B/W: 0Lux with IR on |
|                     | WDR                         | 140dB Super WDR Pro  | 140dB Super WDR( <b>Super WDR Pro is optional for T Series</b> )     | 120dB Super WDR  |
|                     | Shutter Time                | 1/100000s~1s   |  |  |
|                     | IR Distance                 | Up to 180m   |  |  |
|                     | Day/Night Mode              | Day/Night/Auto/Customize/Schedule  |  |  |
|                     | S/N                         | >55dB  |  |  |
|                     | Lens                        | Lens   | 8~32mm, 4X Optical Zoom  | 5.3~64mm, 12X Optical Zoom   |
| Field of View       |                             | H44°~H13°/D51°~D15°/V25°~V7°   | H61°~H5°/D69°~D5°/V36°~V2°   | H57°~H4°/D69°~D5°/V44°~V1°   |
| Mount               |                             | Φ14  |  |  |
| Focus Control       |                             | Auto/Manual  |  |  |
| Aperture            |                             | F1.6~F1.7  | F1.6~F2.8  |  |
| Iris Control        |                             | Auto   |  |  |
| LPR                 | Max. Vehicle Speed          | 200km/h  |  |  |
|                     | Recognition Accuracy        | >95%   |  |  |
|                     | Coverage                    | Support simultaneous detection of 4 regions  |  |  |
|                     | White/Black List            | Up to 1000 records inside the camera   |  |  |
|                     | Smart Traffic Detection     | License Plate Recognition, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection, Speed Detection, Traffic Flow Detection |  |  |
| Radar<br>(Optional) | Working Frequency           | 60GHz, 61~62GHz  |  |  |
|                     | Capture Rate                | >99% (Traffic jam >95%)  |  |  |
|                     | Lane Coverage               | 1~4 Lanes (Recognition ≥95% individually)  |  |  |
|                     | Tracking Target             | Up to 32   |  |  |
|                     | Speed Detection Range       | ±5km/h~±200km/h  |  |  |
|                     | Speed Detection Accuracy    | ±0.36km/h  |  |  |
|                     | Detection Distance          | Up to 90m  |  |  |
|                     | Distance Detection Accuracy | ±0.4m  |  |  |
|                     | Angle Measurement Accuracy  | ±0.5°  |  |  |
|                     | Installation Height         | 2~7m   |  |  |

|                  |                       |  |  |
|------------------|-----------------------|--|--|
| <b>Video</b>     | Max. Image Resolution | 1920x1080  | 2592x1944  |
|                  | Primary Stream        | 60Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> , 60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> , 50fps@(1920x1080, 1280x960, 1280x720, 704x576) | 60Hz: 30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 25fps@(2592x1944), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576) |
|                  | Secondary Stream      | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)   | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)                               |
|                  | Tertiary Stream       | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)                                 |  |
|                  | Video Compression     | H.265*/H.265(HEVC)/H.264*/H.264/MJPEG  |  |
|                  | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)  |  |
|                  | Privacy Masking       | Up to 28 areas(24 mask areas and 4 mosaic areas)   |  |
|                  | ROI                   | Up to 8 areas  |  |
|                  | Image Setting         | Brightness/Contrast/Saturation/Sharpness   |  |
| <b>Interface</b> | Ethernet              | 1*RJ45 10M/100M Ethernet Port  |  |
|                  | Audio I/O             | 1/1  |  |
|                  | Alarm I/O             | 1/1  |  |
| <b>Network</b>   | Network Storage       | NAS(Support NFS, SMB/CIFS), ANR  |  |
|                  | 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   |  |
| <b>Audio</b>     | Audio Compression     | G.711/AAC/G.722/G.726  |  |
|                  | Audio Sampling Rate   | 8/16/32/44.1/48KHz   |  |
|                  | Audio Bit Rate        | 16~256kbps   |  |
|                  | Two-way Audio         | Support  |  |
| <b>System</b>    | Storage               | 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   |  |
|                  | SIP/VoIP Support      | Yes, Voice & Video-over-IP   |  |
|                  | Event Trigger         | Black/White List, 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.   |  |
|                  | System Compatibility  | ONVIF Profile G & Q & S & T, API   |  |
| <b>General</b>   | Working Temperature   | -40°C~60°C   |  |
|                  | Working Humidity      | 0~90%(Non-condensing)  |  |
|                  | Power Supply          | PoE (802.3at) / DC 12V±10%   |  |
|                  | Power Consumption     | 8W MAX<br>14W MAX (With IR on)   | 8W MAX<br>13W MAX (With IR on)   |
|                  | Weather Proof         | Up to IP67-rated for Weather-resistant Performance   |  |
|                  | Housing               | Vandal-proof IK10-rated Metal Housing (Without Radar Module)   |  |
|                  | Surge Protection      | 4KV  |  |
|                  | Weight                | 1445.8g<br>1623g (With radar module)   | 1447g<br>1625g (With radar module)   |
|                  | Dimensions            | 320mmX134mmX126mm<br>320mmX134mmX171mm (With radar module)   |  |
|                  | Warranty              | 3/5 Years  |  |

|                | Name  | AI LPR 12X Mini PTZ Bullet Network Camera  |  |
|----------------|---|--|--|
| Camera         | Appearance  |   |  |
|                | Model   | MS-C2961-X12R(T)LPC<br>(2MP)   | MS-C5361-X12LPC<br>(5MP)   |
|                | Image Sensor  | 1/2.8" Progressive Scan CMOS   |  |
|                | Min. Illumination   | Color: 0.002Lux@F1.2<br>Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on   | Color: 0.005Lux@F1.2<br>Color: 0.008Lux@F1.6<br>B/W: 0Lux with IR on   |
|                | WDR   | 140dB Super WDR<br><b>(Super WDR Pro is optional for T Series)</b>   | 120dB Super WDR  |
|                | Shutter Time  | 1/100000s~1s   |  |
|                | IR Distance   | Up to 140m   |  |
|                | Digital Zoom  | 16X  |  |
|                | Day/Night Mode  | Day/Night/Auto/Customize/Schedule  |  |
|                | S/N   | >55dB  |  |
| Lens           | Focal Length  | 5.3~64mm, 12X Optical Zoom   |  |
|                | Zoom Speed  | Approx 4s (Wide-Tele)  |  |
|                | Field of View   | H61°~H5°/D69°~D5°/V36°~V2°   | H57°~H4°/D69°~D5°/V44°~V1°   |
|                | Focus Control   | Auto/Semi-Auto/Manual  |  |
|                | Minimum Working Distance  | 1000/1500mm (Wide/Tele)  |  |
|                | Aperture  | F1.6~F2.8  |  |
|                | Iris Control  | Auto   |  |
| LPR            | Max. Vehicle Speed  | 200km/h  |  |
|                | Recognition Accuracy  | >95%   |  |
|                | Coverage  | Support simultaneous detection of 4 regions  |  |
|                | White/Black List  | Up to 1000 records inside the camera   |  |
|                | Smart Traffic Detection   | License Plate Recognition, Plate Type Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection   |  |
| PTZ            | Pan Range/Pan Speed   | 360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s  |  |
|                | Tilt Range/Tilt Speed   | -45°~30° / Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/s   |  |
|                | Proportional Zoom   | Support  |  |
|                | Preset Quantity   | 300  |  |
|                | Preset Freezing   | Support  |  |
|                | Patrol  | 8 Patrols, up to 48 presets each patrol  |  |
|                | Pattern   | 4 Patterns   |  |
|                | Auto Tracking   | Support  |  |
|                | Power Off Memory  | Support  |  |
| Other Function | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position |  |  |
| Video          | Max. Image Resolution   | 1920x1080  | 2592x1944  |
|                | Primary Stream  | 60Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: <b>100fps@(1920x1080)(Optional for T Series)</b> ,<br>50fps@(1920x1080, 1280x960, 1280x720, 704x576) | 60Hz: 30fps@(2592x1944),<br>45fps@(2048x1536),60fps@(1920x1080, 1280x960,<br>1280x720, 704x576)<br>50Hz: 25fps@(2592x1944),<br>45fps@(2048x1536),50fps@(1920x1080, 1280x960,<br>1280x720, 704x576) |
|                | Secondary Stream  | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)   | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288,<br>320x240, 320x192, 320x180)                                   |



|                  |                           |  |
|------------------|---------------------------|--|
| <b>Video</b>     | Tertiary Stream           | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) |
|                  | Video Compression         | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG  |
|                  | Video Bit Rate            | 16Kbps~16Mbps(CBR/VBR Adjustable)  |
|                  | Privacy Masking           | Up to 28 areas(24 mask areas and 4 mosaic areas)   |
|                  | ROI                       | Up to 8 areas  |
|                  | Image Setting             | Brightness/Contrast/Saturation/Sharpness   |
| <b>Interface</b> | Ethernet                  | 1*RJ45 10M/100M Ethernet Port  |
|                  | Audio I/O                 | 1/1 (Optional)   |
|                  | Alarm I/O                 | 1/1 (Optional)   |
| <b>Network</b>   | Network Storage           | NAS(Support NFS, SMB/CIFS), ANR  |
|                  | 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                 |
| <b>Audio</b>     | Audio Compression         | G.711/AAC/G.722/G.726  |
|                  | Audio Sampling Rate       | 8/16/32/44.1/48KHz   |
|                  | Audio Bit Rate            | 16~256kbps   |
|                  | Two-way Audio             | Support  |
| <b>System</b>    | Storage                   | Support microSD/SDHC/SDXC Card Local Storage, up to 256G   |
|                  | Advanced Function         | Auto Tracking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark  |
|                  | SIP/VoIP Support          | Yes, Voice & Video-over-IP   |
|                  | Event Trigger             | Black/White List, 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.   |
|                  | License Plate Recognition | Support  |
|                  | System Compatibility      | ONVIF Profile G & Q & S & T, API   |
| <b>General</b>   | Working Temperature       | -40°C~60°C   |
|                  | Working Humidity          | 0~90%(Non-condensing)  |
|                  | Power Supply              | PoE (802.3at) / DC 12V/2A±10%  |
|                  | Power Consumption         | 15W MAX / 20W MAX (With IR on)                                 14W MAX / 20W MAX (With IR on)  |
|                  | Weather Proof             | Up to IP66-rated for Weather-resistant Performance   |
|                  | Weight                    | 2Kg (Wall Mount) / 1.8Kg (Pedestal Mount)  |
|                  | Dimensions                | 160mmX273.5mmX210mm (Wall Mount) / 218mmX120mmX172mm (Pedestal Mount)  |
|                  | Warranty                  | 2 Years / 3 Years (Optional)   |

| Name                     |                         | AI LPR 20X/23X Mini PTZ Bullet Plus Network Camera   |  |
|--------------------------|-------------------------|--|--|
| Camera                   | Appearance              |   |  |
|                          | Model                   | MS-C2867-X20TLPC<br>(2MP)  | MS-C5367-X23LPC<br>(5MP)   |
|                          | Image Sensor            | 1/2" Progressive Scan CMOS   | 1/2.8" Progressive Scan CMOS   |
|                          | Min. Illumination       | Color: 0.001Lux@F1.2<br>Color: 0.002Lux@F1.7<br>B/W: 0Lux with IR on   | Color: 0.002Lux@F1.2<br>Color: 0.005Lux@F1.5<br>B/W: 0Lux with IR on |
|                          | WDR                     | 140dB Super WDR Pro  | 120dB Super WDR  |
|                          | Shutter Time            | 1/100000s~1s   |  |
|                          | IR Distance             | Up to 180m   |  |
|                          | Digital Zoom            | 16X  |  |
|                          | Day/Night Mode          | Day/Night/Auto/Customize/Schedule  |  |
|                          | S/N                     | >55dB  |  |
|                          | Lens                    | Lens   | 6.4~128mm, <b>20X</b> Optical Zoom                                   |
| Field of View            |                         | Approx 5s (Wide-Tele)  | Approx 6s (Wide-Tele)  |
| Zoom Speed               |                         | H60°~H3°/D67°~D4°/V37°~V1°   | H55°~H3°/D68°~D4°/V42°~V2°   |
| Focus Control            |                         | Auto/Semi-Auto/Manual  |  |
| Minimum Working Distance |                         | 1000/1500mm (Wide/Tele)  |  |
| Aperture                 |                         | F1.7~F2.1  | F1.5~F3.5  |
| Iris Control             |                         | Auto   |  |
| LPR                      | Max. Vehicle Speed      | 200km/h  |  |
|                          | Recognition Accuracy    | >95%   |  |
|                          | Coverage                | Support simultaneous detection of 4 regions  |  |
|                          | White/Black List        | Up to 1000 records inside the camera   |  |
|                          | Smart Traffic Detection | License Plate Recognition, Plate Type Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition, Vehicle Direction Detection |  |
| PTZ                      | Pan Range/Pan Speed     | 360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s  |  |
|                          | Tilt Range/Tilt Speed   | -45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s   |  |
|                          | Proportional Zoom       | Support  |  |
|                          | Preset Quantity         | 300  |  |
|                          | Patrol                  | 8 Patrols, up to 48 presets each patrol  |  |
|                          | Pattern                 | 4 Patterns   |  |
|                          | Auto Tracking           | Support  |  |
|                          | Power Off Memory        | Support  |  |
|                          | Other Function          | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position  |  |

|                |                           |  |  |
|----------------|---------------------------|--|--|
| <b>Video</b>   | Max. Image Resolution     | 1920x1080  | 2592x1944  |
|                | Primary Stream            | 60Hz: 100fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 100fps@(1920x1080, 1280x960, 1280x720, 704x576)   | 60Hz: 30fps@(2592x1944),<br>45fps@(2048x1536),60fps@(1920x1080, 1280x960, 1280x720, 704x576)<br>50Hz: 25fps@(2592x1944),<br>45fps@(2048x1536),50fps@(1920x1080, 1280x960, 1280x720, 704x576) |
|                | Secondary Stream          | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)                         | 60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)                                   |
|                | Tertiary Stream           | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) |  |
|                | Video Compression         | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG  |  |
|                | Video Bit Rate            | 16Kbps~16Mbps(CBR/VBR Adjustable)  |  |
|                | Privacy Masking           | Up to 28 areas(24 mask areas and 4 mosaic areas)   |  |
|                | ROI                       | Up to 8 areas  |  |
|                | Image Setting             | Brightness/Contrast/Saturation/Sharpness   |  |
|                | <b>Interface</b>          | Ethernet   | 1*RJ45 10M/100M Ethernet Port  |
| Audio I/O      |                           | 1/1  |  |
| Alarm I/O      |                           | 1/1  |  |
| <b>Network</b> | Network Storage           | NAS(Support NFS, SMB/CIFS), ANR  |  |
|                | 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                 |  |
| <b>Audio</b>   | Audio Compression         | G.711/AAC/G.722/G.726  |  |
|                | Audio Sampling Rate       | 8/16/32/44.1/48KHz   |  |
|                | Audio Bit Rate            | 16~256kbps   |  |
|                | Two-way Audio             | Support  |  |
| <b>System</b>  | Storage                   | 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   |  |
|                | SIP/VoIP Support          | Yes, Voice & Video-over-IP   |  |
|                | Event Trigger             | Black/White List, 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.   |  |
|                | License Plate Recognition | Support  |  |
|                | System Compatibility      | ONVIF Profile G & Q & S & T, API   |  |
| <b>General</b> | Working Temperature       | -40°C~60°C   |  |
|                | Working Humidity          | 0~90%(Non-condensing)  |  |
|                | Power Supply              | PoE (802.3at) / DC 12V/3A±10%  |  |
|                | Power Consumption         | 12W MAX / 23W MAX (With IR on)   |  |
|                | Weather Proof             | Up to IP66-rated for Weather-resistant Performance   |  |
|                | Housing                   | N/A  |  |
|                | Weight                    | 2.9Kg  |  |
|                | Dimensions                | 110mmX337mmX220mm  |  |
|                | Warranty                  | 2 Years / 3 Years (Optional)   |  |