# Road Traffic Management

DATASHEET

## INTRODUCTION

Milesight Road Traffic Management Camera combines video surveillance with AI, ANPR, 3D Radar and other cutting-edge technologies helps traffic management agencies systematically and intelligently monitor and understand road users' behavior and gain valuable insights based on real-time data to optimize traffic flow, minimize accident risks, and respond to emergencies more efficiently. It can be widely used in urban public security management systems, which can significantly improve management efficiency and make traffic smarter, safer and smoother.

### AI Road Traffic Pro Bullet Plus Camera

- 4X Optical Zoom
- 1/2.8” STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 30m Illumination Distance
- Smart IR II Technology
- IP67 & IK10
- Versatile Interfaces
- Integrated Cable Management

### AI Road Traffic Radar Pro Bullet Plus Camera

- Advanced 3D Radar Technology
- 4X Optical Zoom
- 1/2" STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 30m Illumination Distance
- Smart IR II Technology
- IP67
- Versatile Interfaces
- Easy Deployment and Compact Structure
- Integrated Cable Management

### AI Road Traffic Supplement Light Pro Bullet Plus Camera

- Integrated Supplement Light
- Wiegand Protocol Supported
- 4X Optical Zoom
- 1/2" STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 40m Illumination Distance
- Smart IR II Technology
- IP67
- Versatile Interfaces

### AI Road Traffic PTZ Bullet Camera

- Flexible Pan, Tilt and Zoom Tasks
- 12X Optical Zoom
- 1/2.8" STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 30m Illumination Distance
- Smart IR II Technology
- Intelligent White LED
- Smart PTZ Motion Detection
- IP66
- Keyboard Control

### AI Road Traffic PTZ Bullet Plus Camera

- New-generation PTZ Motor
- Flexible Pan, Tilt and Zoom Tasks
- 5X Optical Zoom
- 1/2" STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 30m Illumination Distance
- Smart IR II Technology
- Intelligent White LED
- Smart PTZ Motion Detection
- IP66
- Keyboard Control

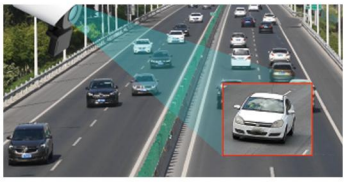
### AI Road Traffic Speed Dome Camera

- Smart Rain-Sensing Wiper (Optional)
- 36X Optical Zoom
- 1/2" STARVIS Starlight Sensor
- 100fps
- 3 in 1 Super WDR Pro - 140dB
- Up to 50m Illumination Distance
- Smart IR II Technology
- Smart PTZ Motion Detection
- IP66
- Keyboard Control
- Versatile Interfaces
- Exquisite Design

# Road Traffic Management

## Application of Milesight Traffic Solution

### Advanced AI LPR Algorithm Improves Road Safety



**No-plate Vehicle Capture**

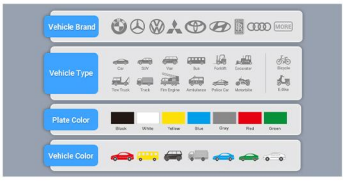
- Real-time Detection of Vehicles without License Plates.
- Capture Snapshot & Smart Search.

**Specific Lane Management**

- Detection of Cars and Trucks Traveling or Parking in Bus Lanes.
- Customize Permitted Vehicles & Residence Time.

**Parking Violation Detection**

- Real-time Capture of Violated Vehicles that Exceed the Set Time.
- Smart Parking Search.




**Vehicle Attributes Alarm based on Schedule**

- Various Vehicle Attributes Recognition to Search & Locate Target Vehicles Faster.
- Avoid Illegal Vehicles on the Road.
- Locate Stolen & Abnormal Vehicles.

**Speeding Detection**
(Only for Radar Models)

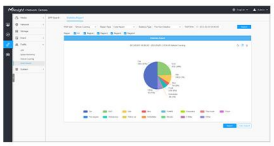
**Reverse Driving Detection**
(Only for Radar Models)

**Black/White List Management**

### Ideal for Traffic Flow Statistics and Analysis

**Vehicle Counting Based on Vehicle Type**

- Car/Motorcycle/Non-motor
- Small/Medium/Large Vehicle
- Various Vehicle Attributes.



**Intuitive Report**

- The Vehicle Counting Results are Visually Displayed in The Live View Interface.
- Multiple Report Types including Line Chart and Pie Chart.

### Evidence Capture Improves Enforcement Efficiency

**Evidence Camera Linkage**

- Linking LPR Camera and Regular Camera for Evidence Capture.
- LPR Camera for License Plate Recognition and Linkage Triggering.
- Regular Camera for Full Snapshot of the Scene.

**LPR Smart Search Function**

- Real-time detection results.
- Detected time, live screenshot, license plate.
- Search by Plate Color, Vehicle Type & Color, Speed, Direction, etc.
- Manual Export & Auto Export.

### Intelligent Plate Data Management Helps Enhance City Management

**Black/White List Management**

- Add the license plates & Batch Upload.
- Black List/White List/Visitor Mode.
- List Scheduling Management.
- Set the alarm action for the plates.

**Stand alone LPR Solution**

- Built-in AL LPR Algorithm.
- Embedded Black & White Lists.

**Closed-loop Back-end Integration**

- Full Compatibility with Milesight Back-ends.
- Completely Closed-loop ANPR Solutions.

**Open Integration with 3rd Party**

- Various CGI/APIs.
- Diverse Protocols Available to Reduce Extra Human Labour (Wiegand, TCP, HTTP, etc. ).
- Full Data Push.

## License Plates Administration Backed by Intelligence

### Improve Rode Safety and Enforcement Efficiency

**Embedded AI LPR Algorithm**

**AI-based Vehicle Attributes Recognition**

**Integrated 3D Radar Technology**

**Broad Range of Countries and Regions Supported**

# Road Traffic Management

## Superior Image Quality for 24/7 Traffic Monitoring

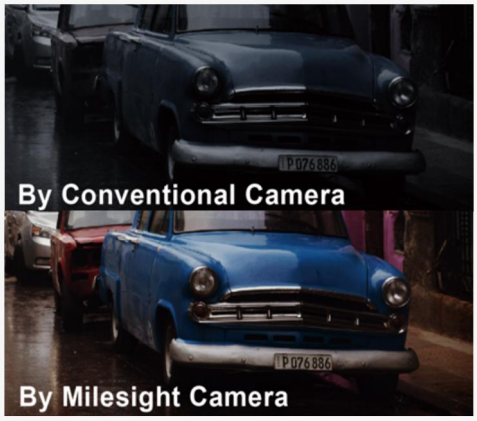
### Excellent Capture Performance

**Stunning Image Performance Even in the Night**

• LPR Image

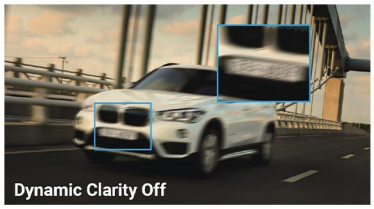
• Integrated Supplement Light

• HLC (Highlight Compensation)




• 0.002Lux Starlight

**Accurately Capture Plates of Fast Moving Vehicles**



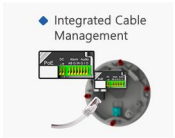
**Excellent Capture Performance at High Speed and**

| | | | |
|---|---|---|---|
| **200km/h** Recognizable Speed | **>95%** High Recognition Accuracy | License Plate Serial Format | **4** Detection Regions |

## Maximized Flexibility for Your Convenience

### Unique Design, Easy and Flexible Installation

**Integrated Junction**




**Clamshell Design & Integrated Cable Management**

**3-Axis Mechanical Design**

**Flexible Pan, Tilt and Zoom Tasks for ANPR**

SCAN ME!

**OBTAIN THE USER MANUAL**

# Road Traffic Management

| | Name | AI Road Traffic Pro Bullet Plus Camera | AI Road Traffic Radar Pro Bullet Plus Camera |
|---|---|---|---|
| **Camera** | Appearance | | |
| | Model | TS2866-X4TPC (2MP) | TS2866-X4TVPC (2MP) |
| | Image Sensor | 1/2" Progressive Scan CMOS | |
| | Min. Illumination | Color: 0.002Lux@F1.6<br>B/W: 0Lux with IR on | |
| | WDR | 140dB Super WDR Pro | |
| | Shutter Time | 1/100000s~1s | |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule | |
| | S/N | >55dB | |
| **Lens** | Lens | 8~32mm, 4X Optical Zoom | |
| | Field of View | H44°~H13°/D51°~D15°/V25°~V7° | |
| | Mount | Φ14 | |
| | Focus Control | Auto/Manual | |
| | Aperture | F1.6~F1.7 | |
| | Iris Control | Auto | |
| **Road Traffic Management** | Max. Vehicle Speed | 200km/h | |
| | Recognition Accuracy | >95% | |
| | Coverage | Support simultaneous detection of 4 regions | |
| | Country Region Supported | More than 80 countries and regions | |
| | Illumination Distance | Up to 30m | |
| | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection, Speed Detection, Traffic Flow Detection |
| | Smart Traffic Function | Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management | |
| | White/Black List | Up to 1000 records inside the camera | |
| | LPR Smart Search | Support | |
| **Radar** | 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 |

| | | | |
|---|---|---|---|
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port | |
| | Audio I/O | 1/1 | |
| | Alarm I/O | 1/1 | |
| **Video** | Max. Image Resolution | 1920x1080 | |
| | Primary Stream | 60Hz/50Hz: 100fps@(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) | |
| | 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 | |
| **Network** | 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 | |
| **Audio** | 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 | |
| **System** | System Compatibility | API, HTTP, TCP, ONVIF Profile G & Q & S & T | |
| | 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, Attributes Event, 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 | -40℃~60℃ | |
| | Working Humidity | 0~95%(Non-condensing) | 5~90%(Non-condensing) |
| | Power Supply | PoE (802.3at) / DC 12V±10% | |
| | Power Consumption | 8W MAX<br>14W MAX (With IR on) | |
| | Weather Proof | Up to IP67-rated for Weather-resistant Performance | |
| | Housing | Vandal-proof IK10-rated Metal Housing | Vandal-proof IK10-rated Metal Housing (Without Radar Module) |
| | Surge Protection | 4KV | |
| | Weight | 1445.8g | 1623g |
| | Dimensions | 320mmX134mmX126mm | 320mmX134mmX171mm |
| | Warranty | 3/5 Years | |

| | Name | AI Road Traffic Supplement Light Pro Bullet Plus Camera | |
|---|---|---|---|
| **Camera** | Appearance | | |
| | Model | TS2866-X4TWC /W (2MP) | TS2866-X4TWC /R (2MP) |
| | Image Sensor | 1/2” Progressive Scan CMOS | |
| | Min. Illumination | Color: 0.002Lux@F1.6<br>B/W: 0Lux with IR on | |
| | WDR | 140dB Super WDR Pro | |
| | Shutter Time | 1/100000s~1s | |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule | |
| | S/N | >55dB | |
| **Lens** | Lens | 8~32mm, 4X Optical Zoom | |
| | Field of View | H44°~H13°/D51°~D15°/V25°~V7° | |
| | Mount | Φ14 | |
| | Focus Control | Auto/Manual | |
| | Aperture | F1.6-F1.7 | |
| | Iris Control | Auto | |
| **Road Traffic Management** | Max. Vehicle Speed | 200km/h | |
| | Recognition Accuracy | >95% | |
| | Coverage | Support simultaneous detection of 4 regions | |
| | Country Region Supported | More than 80 countries and regions | |
| | Illumination Distance | Up to 40m | |
| | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture | |
| | Smart Traffic Function | Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management | |
| | White/Black List | Up to 1000 records inside the camera | |
| | LPR Smart Search | Support | |
| **Illuminator** | Supplement Light | White LED Light | IR LED Light |
| | Light Bead | 6 (For White LED Light) | 9 (For IR LED Light) |
| | Light Control | Auto/Always On/Off/Customize | |
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port | |
| | Audio I/O | 1/1 | |
| | Alarm I/O | 1/1 | |
| | Wiegand | Standard Wiegand 26-bit | |

# Road Traffic Management

| | | |
|---|---|---|
| **Video** | Max. Image Resolution | 1920x1080 |
| | Primary Stream | 60Hz/50Hz: 100fps@(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) |
| | 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 |
| **Network** | 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 |
| **Audio** | 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 |
| **System** | System Compatibility | API, HTTP, TCP, Wiegand Protocol, ONVIF Profile G & Q & S & T |
| | 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, Attributes Event, 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 | -40℃~60℃ |
| | Working Humidity | 5~90%(Non-condensing) |
| | Power Supply | DC 12V / 3A±10% (Non-PoE) |
| | Power Consumption | 4W MAX<br>30W MAX (For White LED Light)<br>4W MAX<br>31W MAX (For IR LED Light) |
| | Surge Protection | 4KV |
| | Weather Proof | Up to IP67-rated for Weather-resistant Performance |
| | Housing | Vandal-proof IK10-rated Metal Housing (Without Supplement Light) |
| | Surge Protection | 4KV |
| | Weight | 1445.8g<br>2100g (With Supplement Light) |
| | Dimensions | 282mmX108mmX120mm<br>282mmX108mmX225mm (With Supplement Light) |
| | Warranty | 3/5 Years |

# Road Traffic Management

| | Name | AI Road Traffic PTZ Bullet Camera | AI Road Traffic PTZ Bullet Plus Camera |
|---|---|---|---|
| **Camera** | Appearance | | |
| | Model | TS2961-X12TPC (2MP) | TS2867-X5TPC (2MP) |
| | Image Sensor | 1/2.8" Progressive Scan CMOS | 1/2" Progressive Scan CMOS |
| | Min. Illumination | Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on | Color: 0.002Lux@F1.7<br>B/W: 0Lux with IR on |
| | WDR | 140dB Super WDR Pro | |
| | Shutter Time | 1/100000s~1s | |
| | Digital Zoom | 16X | |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule | |
| | S/N | >55dB | |
| **Lens** | Focal Length | 5.3~64mm, 12X Optical Zoom | 11~55mm, 5X Optical Zoom |
| | Zoom Speed | Approx 4s (Wide-Tele) | Approx 3.5s (Wide-Tele) |
| | Field of View | H61°~H5°/D69°~D5°/V36°~V2° | H34°~H8°/D39°~D9°/V20°~V4° |
| | Focus Control | Auto/Semi-Auto/Manual | |
| | Minimum Working Distance | 1000/1500mm (Wide/Tele) | |
| | Aperture | F1.6~F2.8 | F1.7~F2.1 |
| | Iris Control | Auto | |
| **Road Traffic Management** | Max. Vehicle Speed | 200km/h | |
| | Recognition Accuracy | >95% | |
| | Coverage | Support simultaneous detection of 4 regions | |
| | Country Region Supported | More than 80 countries and regions | |
| | Illumination Distance | Up to 30m | |
| | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture | |
| | Smart Traffic Function | Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management | |
| | White/Black List | Up to 1000 records inside the camera | |
| | LPR Smart Search | Support | |
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port | |
| | Audio I/O | 1/1 (Optional) | 1/1 |
| | Alarm I/O | 1/1 (Optional) | 1/1 |
| **PTZ** | Pan Range/Pan Speed | 360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s | 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°~25°/s, Tilt Preset Speed: 25°/s | -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 | |

| | | | |
|---|---|---|---|
| **PTZ** | Pattern | 4 Patterns | |
| | Power Off Memory | Support | |
| | Other Function | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position | |
| **Video** | Max. Image Resolution | 1920x1080 | |
| | Primary Stream | 60Hz/50Hz: 100fps@(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) | |
| | 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 | |
| **Network** | 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 | |
| **Audio** | 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 | |
| **System** | System Compatibility | API, HTTP, TCP, ONVIF Profile G & Q & S & T | |
| | 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, Attributes Event, Motion Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional), etc. | Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. |
| | Event Action | FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc. | FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc. |
| **General** | Working Temperature | -40℃~60℃ | |
| | Working Humidity | 0~95%(Non-condensing) | |
| | Power Supply | PoE (802.3at) / DC 12V/2A±10% | PoE (802.3at) / DC 12V/3A±10% |
| | Power Consumption | 15W MAX<br>20W MAX (With IR on) | 12W MAX<br>28W MAX (With IR on) |
| | Weather Proof | Up to IP66-rated for Weather-resistant Performance | |
| | Weight | 2Kg (Wall Mount) / 1.8Kg (Pedestal Mount) | 2.9Kg |
| | Dimensions | 160mmX273.5mmX210mm (Wall Mount) /218mmX120mmX172mm (Pedestal Mount) | 110mmX337mmX220mm |
| | Warranty | 2 Years / 3 Years (Optional) | |

# Road Traffic Management

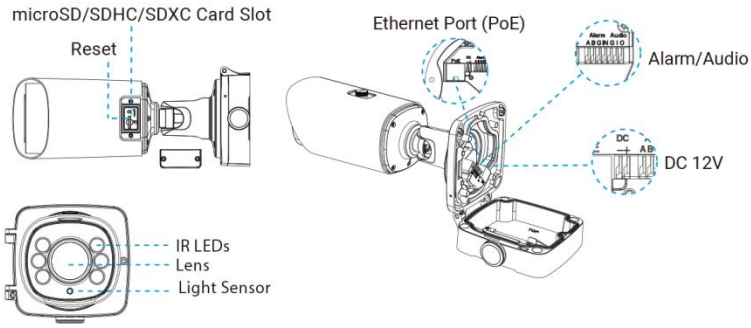
| | Name | AI Road Traffic Speed Dome Camera | |
|---|---|---|---|
| **Camera** | Appearance | | |
| | Model | TS2841-X36TPC<br>(2MP) | TS2841-X36TPC<br>/W<br>(2MP) |
| | Image Sensor | 1/2" Progressive Scan CMOS | |
| | Min. Illumination | Color: 0.002Lux@F1.55<br>B/W: 0Lux with IR on | |
| | WDR | 140dB Super WDR Pro | |
| | Shutter Time | 1/100000s~1s | |
| | Digital Zoom | 16X | |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule | |
| | S/N | >55dB | |
| **Lens** | Focal Length | 5.7~205.2mm, 36X Optical Zoom | |
| | Zoom Speed | Approx 7s (Wide-Tele) | |
| | Field of View | H63°~H3°/D69°~D3°/ V38°~V1° | |
| | Focus Control | Auto/Semi-Auto/Manual | |
| | Minimum Working Distance | 1500/1500mm (Wide/Tele) | |
| | Aperture | F1.55~F4.8 | |
| | Iris Control | Auto | |
| **Road Traffic Management** | Max. Vehicle Speed | 200km/h | |
| | Recognition Accuracy | >95% | |
| | Coverage | Support simultaneous detection of 4 regions | |
| | Country Region Supported | More than 80 countries and regions | |
| | Illumination Distance | Up to 50m | |
| | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture | |
| | Smart Traffic Function | Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type,<br>Specific Lane Management | |
| | White/Black List | Up to 1000 records inside the camera | |
| | LPR Smart Search | Support | |
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port | |
| | Audio I/O | 1/1 | |
| | Alarm I/O | 4/2 | |
| | RS485 | Support | |
| **PTZ** | Pan Range/Pan Speed | 360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s | |
| | Tilt Range/Tilt Speed | -5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s | |
| | Proportional Zoom | Support | |
| | Preset Quantity | 300 | |
| | Patrol | 8 Patrols, up to 48 presets each patrol | |

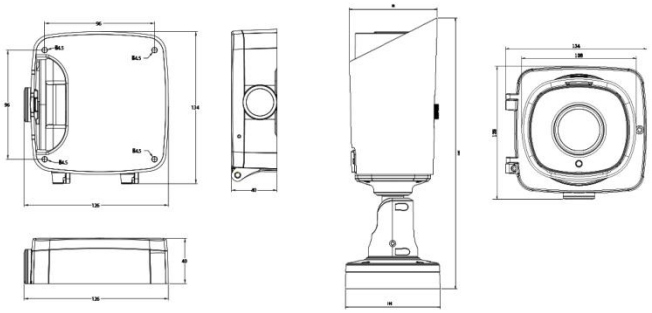
| | | |
|---|---|---|
| **PTZ** | Pattern | 4 Patterns |
| | Power Off Memory | Support |
| | Other Function | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position |
| **Video** | Max. Image Resolution | 1920x1080 |
| | Primary Stream | 60Hz/50Hz: 100fps@(1920x1080, 1280x960, 1280x720, 704x576) |
| | Secondary Stream | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) |
| | 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 |
| **Network** | 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 |
| **Audio** | 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 |
| **System** | System Compatibility | API, HTTP, TCP, ONVIF Profile G & Q & S & T |
| | 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, Attributes Event, 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 | -40℃~60℃ |
| | Working Humidity | 0~95%(Non-condensing) |
| | Power Supply | PoE (802.3at) / AC 24V/3A±10% |
| | Power Consumption | 13W MAX / 23W MAX (With IR on) |
| | Weather Proof | Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing(Optional) \| Up to IP66-rated for Weather-resistant Performance |
| | Heater | Support |
| | Wiper | - \| Support |
| | Surge Protection | 6KV |
| | Dimensions/Weight | Φ205mmX308mm/4Kg |
| | Warranty | 2 Years / 3 Years (Optional) |

V1.0

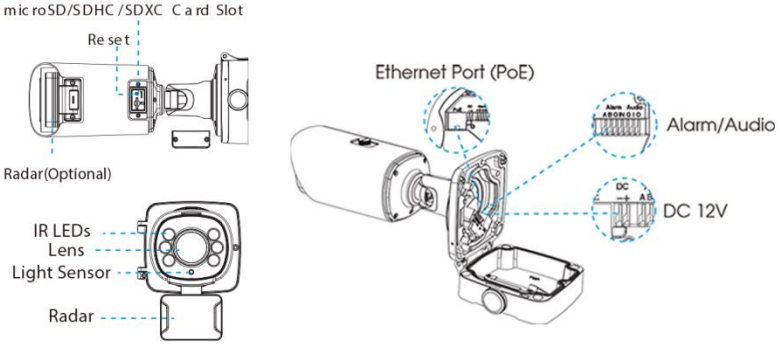
## Structure Diagrams

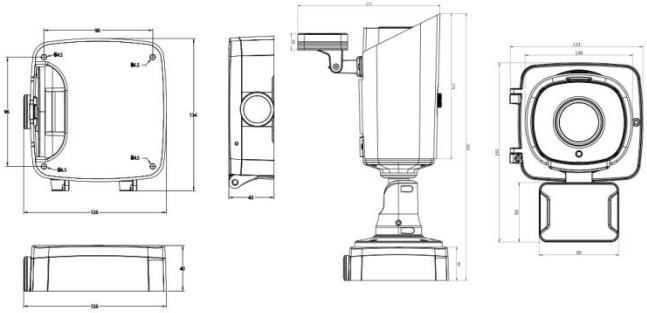
### AI Road Traffic Pro Bullet Plus Camera



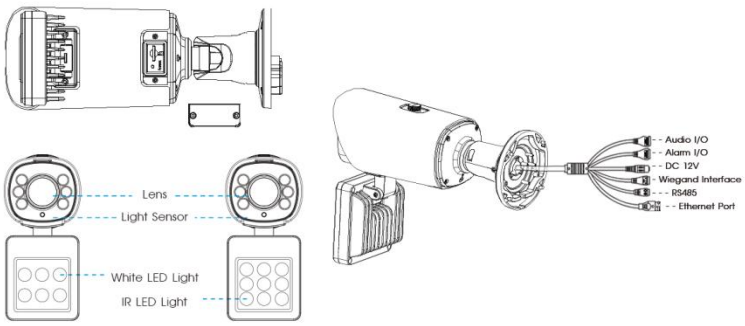



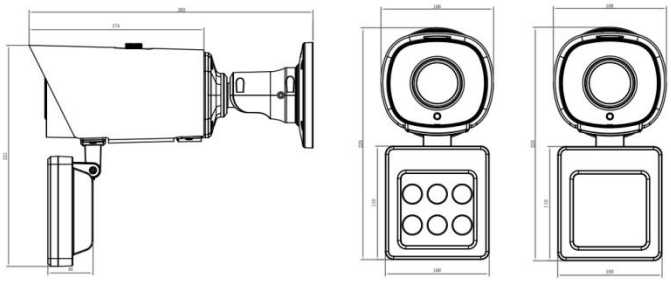
### AI Road Traffic Radar Pro Bullet Plus Camera



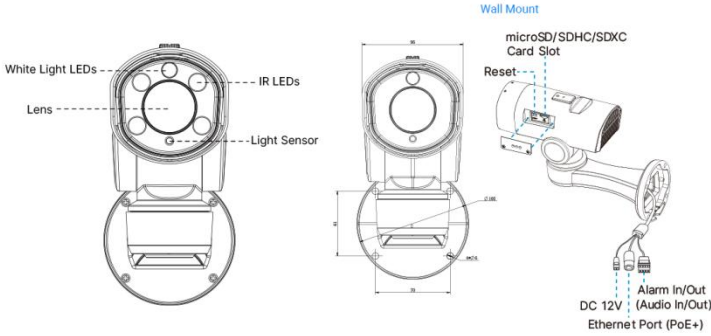



### AI Road Traffic Supplement Light Pro Bullet Plus Camera



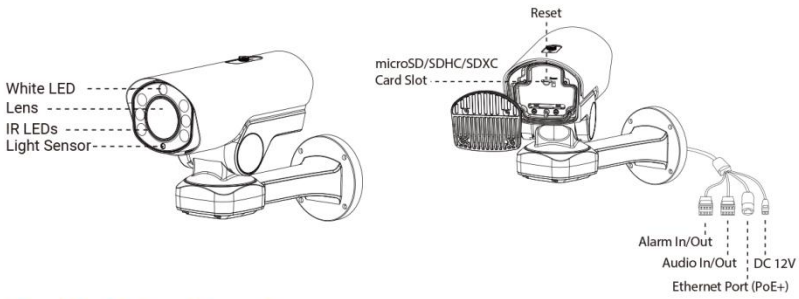



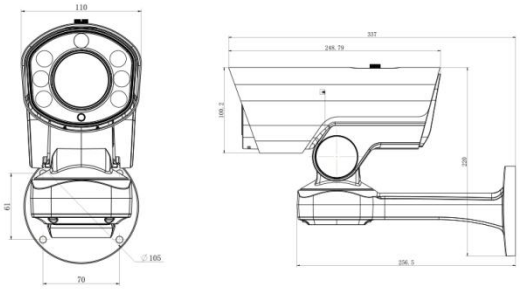
### AI Road Traffic PTZ Bullet Camera



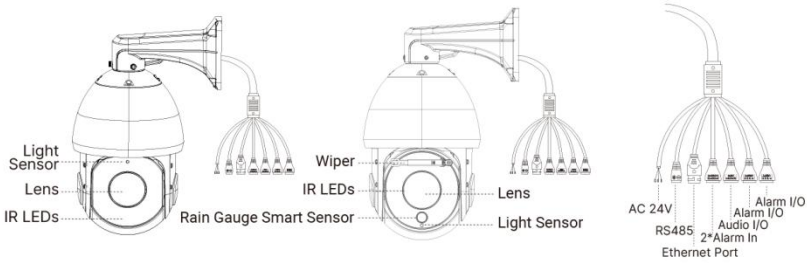
# Road Traffic Management

## AI Road Traffic PTZ Bullet Plus Camera



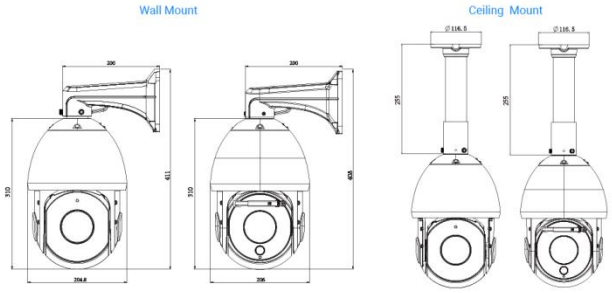



## AI Road Traffic Speed Dome Camera




Wall Mount

Ceiling Mount



Units: mm

# Accessories Support

## AI Road Traffic Pro Bullet Plus Camera /AI Road Traffic Radar Pro Bullet Plus Camera

A62 Junction Box(Default)

Weight: 510g
Dimensions: 134*126*40mm

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm

## AI Road Traffic Supplement Light Pro Bullet Plus Camera /AI Road Traffic PTZ Bullet Camera

A62 Junction Box

Weight: 510g
Dimensions: 134*126*40mm

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm

## AI Road Traffic PTZ Bullet Plus Camera

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm

A62 Junction Box

Weight: 510g
Dimensions: 134*126*40mm

## AI Road Traffic Speed Dome Camera

A41 Wall Mount (Default)

Weight: 400g
Dimensions: 200*129*100mm

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm

A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm

A42 Pendant Mount

Weight: 650g
Dimensions: 116.5*255mm

A42-L Extension Lever

Weight: 325g
Dimension: 57*255mm

A43 Junction Box

Weight: 1000g
Dimensions: 195*164*80mm

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