

# AI Road Traffic PTZ Bullet Camera



IP66

AF Lens



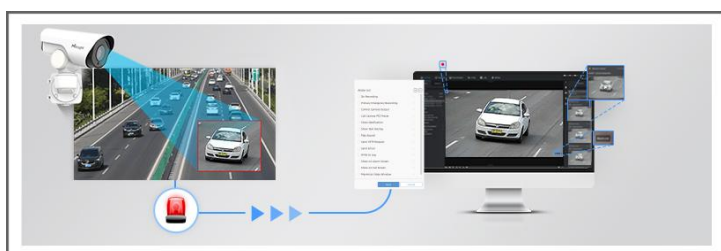
NDA

## KEY FEATURES

- ▶ Superior Image Quality (Starlight Sensor, Smart IR II Technology, 4K Video Viewing Experience and high frame rate are supported for an excellent image quality.)
- ▶ Evidence Camera Linkage (Link with any regular cameras to capture the overview snapshots as evidence.)
- ▶ LPR Smart Search (Relevant videos can be found quickly by searching for only a portion of the target suspect vehicle's features, such as vehicle type & color, plate color, plate number, direction and etc.)
- ▶ 60fps/90fps High Frame Rate (Camera can easily catch images with no latency despite of the high-speed movement.)

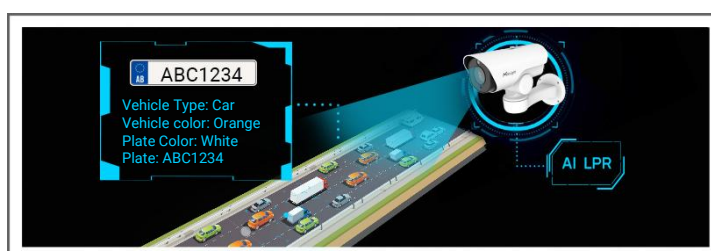
## Traffic Violation Detection

AI-based road traffic cameras accurately detect and alert violation events such as No-plate Vehicle Detection, Specific Lane Detection, Reverse Driving Detection, Black/White List Detection and Vehicle Event Detection based on recognized vehicle features.



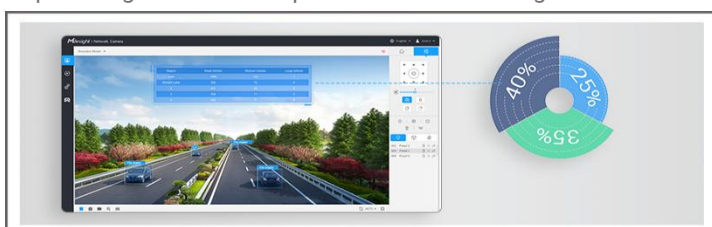
## Intelligent AI-powered LPR Algorithm

The AI Road Traffic PTZ Bullet Plus Camera can not only recognize vehicle plates in real time, but also identify more vehicle features, like vehicle type, color, etc., generating reliable traffic insights to improve safety and mobility.



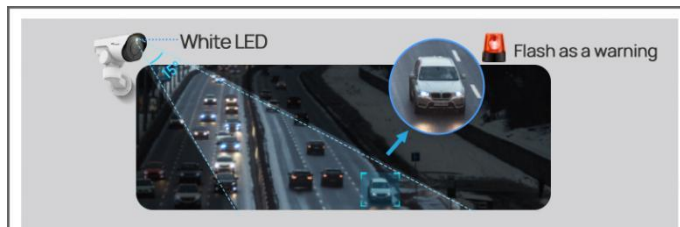
## Traffic Flow Statistics

Traffic flow statistics greatly enhance traffic management capabilities. The vehicle counting result based on vehicle type, vehicle make and various vehicle features can be shown intuitively in camera's live view and the camera can also generate useful report insights to aid in improved decision-making.



## Intelligent White LED

With the 15° viewing angle, the White LED can be turned on as a supplementary light source and warning signal at night. Its brightness can be adjusted on the basis of the zoom level to satisfy the actual project requirement.



# AI Road Traffic PTZ Bullet Camera



| Camera                  | Name                      | AI Road Traffic PTZ Bullet Camera                                                                                 |
|-------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|
|                         | Appearance                |                                 |
|                         | Model                     | <b>TS2961-X12TPE<br/>(2MP)</b>                                                                                    |
|                         | Image Sensor              | 1/2.8" Progressive Scan CMOS                                                                                      |
|                         | Min. Illumination         | Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on                                                                      |
|                         | Shutter Time              | 1/100000s~1s                                                                                                      |
|                         | Digital Zoom              | 16X                                                                                                               |
|                         | Day/Night Mode            | Day/Night/Auto/Customize/Schedule                                                                                 |
|                         | Illumination Distance     | Up to 50m                                                                                                         |
|                         | 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°                                                                                        |
|                         | Focus Control             | Auto/Semi-Auto/Manual                                                                                             |
|                         | Minimum Working Distance  | 1000/1500mm (Wide/Tele)                                                                                           |
|                         | Aperture                  | F1.6~F2.8                                                                                                         |
|                         | Iris Control              | Auto                                                                                                              |
| Road Traffic Management | Max. Vehicle Speed        | 120km/h                                                                                                           |
|                         | Recognition Accuracy      | >95%                                                                                                              |
|                         | Coverage                  | 2 lanes                                                                                                           |
|                         | Country Region Supported  | More than 80 countries and regions                                                                                |
|                         | ANPR Distance             | Up to 40m                                                                                                         |
|                         | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand,<br>No-plate Vehicle Capture, Vehicle Direction Detection |
|                         | Smart Traffic Function    | Evidence Camera Linkage, Specific Lane Management                                                                 |
|                         | White/Black List          | Up to 20,000 records inside the camera                                                                            |
|                         | LPR Smart Search          | Support                                                                                                           |
| Interface               | Ethernet                  | 1*RJ45 10M/100M Ethernet Port                                                                                     |
|                         | Audio I/O                 | 1/1 (Optional)                                                                                                    |
|                         | Alarm I/O                 | 1/1 (Optional)                                                                                                    |
| 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                                                                                                               |
|                         | Patrol                    | 8 Patrols, up to 48 presets each patrol                                                                           |
|                         | Pattern                   | 4 Patterns                                                                                                        |
|                         | Power Off Memory          | Support                                                                                                           |

# AI Road Traffic PTZ Bullet Camera



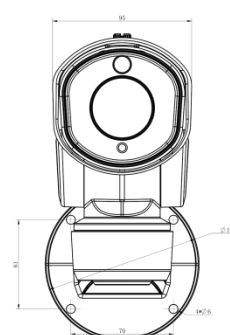
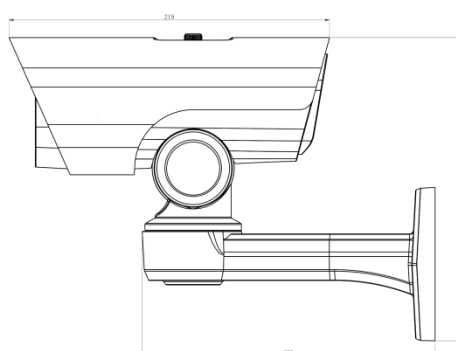
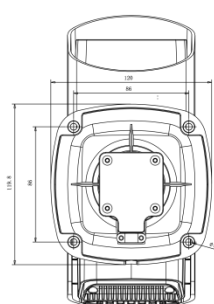
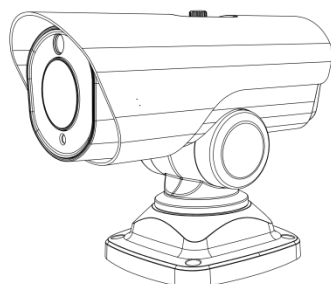
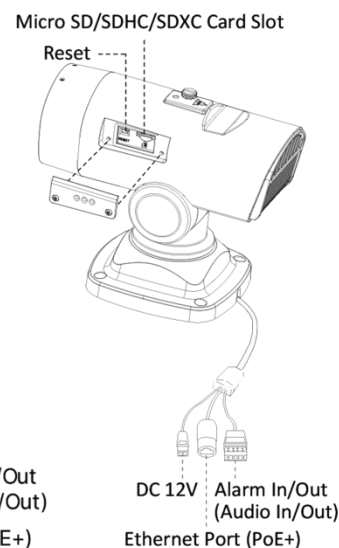
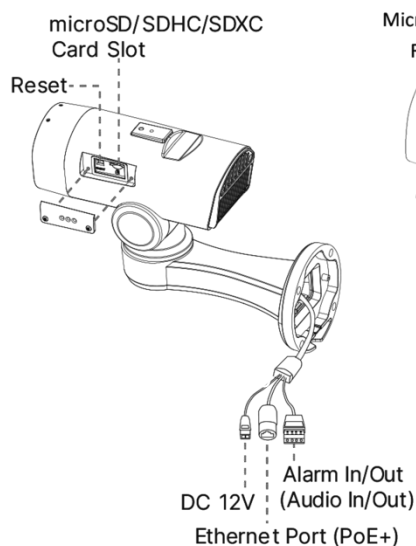
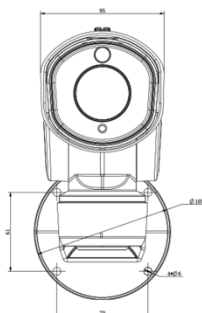
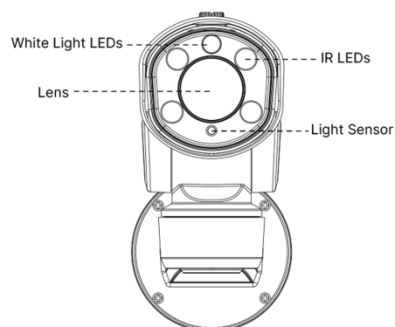
|         |                       |                                                                                                                                                                    |
|---------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Other Function        | Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position                                                                                |
| Video   | Max. Image Resolution | 1920x1080                                                                                                                                                          |
|         | Primary Stream        | 60Hz/50Hz: 90fps@(1920x1080, 1280x960, 1280x720, 704x576)                                                                                                          |
|         | Secondary Stream      | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)                                             |
|         | Tertiary Stream       | 60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)                     |
|         | Video Compression     | H.265+/H.265(HEVC)/H.264+/H.264/MJPEG                                                                                                                              |
|         | Video Bit Rate        | 16Kbps~16Mbps(CBR/VBR Adjustable)                                                                                                                                  |
|         | Privacy Masking       | Up to 8 Areas (Mask Area and Mosaic Area are optional)                                                                                                             |
|         | 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, MQTT, HTTP, TCP, ONVIF Profile G & M & S & T                                                                                                                  |
|         | Storage               | Support microSD/SDHC/SDXC Card Local Storage, up to 1TB                                                                                                            |
|         | Advanced Function     | BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, 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.                               |
|         | Event Action          | FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.                                     |
| General | Working Temperature   | -40°C~60°C                                                                                                                                                         |
|         | Working Humidity      | 0~95% (Non-condensing)                                                                                                                                             |
|         | Power Supply          | PoE (802.3at) / DC 12V/2A±10%                                                                                                                                      |
|         | Power Consumption     | Min.: 11.5W (DC 12V), 13.3W(PoE)<br>Max.: 17.8W (DC 12V), 18.9W(PoE)                                                                                               |
|         | Weather Proof         | Up to IP66-rated for Weather-resistant Performance                                                                                                                 |
|         | Weight                | 2Kg (Wall Mount) / 1.8Kg (Pedestal Mount)                                                                                                                          |
|         | Dimensions            | 160mmX273.5mmX210mm (Wall Mount)<br>/218mmX120mmX172mm (Pedestal Mount)                                                                                            |
|         | Warranty              | 2 Years / 3 Years (Optional)                                                                                                                                       |

# AI Road Traffic PTZ Bullet Camera



|                |             |                                                       |
|----------------|-------------|-------------------------------------------------------|
| Certifications | EMC         | CE-EMC (EN 55032, EN 55035), FCC (PART 15B)           |
|                | Safety      | CE-LVD (EN IEC 62368-1)                               |
|                | Environment | CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU) |

## Structure Diagrams



## Accessories Support



### A62 Junction Box

Weight: 510g

Dimensions:

134\*126\*40mm



### A02 V2 Pole Mount

Weight: 1kg

Dimensions:

180\*136\*46mm



### A03 External Corner Bracket

Weight: 900g

Dimensions:

170\*152.5\*76.3mm

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