# AI Road Traffic Radar Pro Bullet Plus Camera



AF Lens

DATASHEET

3D Radar | AI | H.265+ HEVC | Starlight | Super WDR | IR | 3-Axis | SD HC | GMST Onvif | PoE | Weather Proof

NDAA

## 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, speed, direction and etc.)
- Traffic Flow Statistics (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.)

### Traffic Violation Detection

AI-based road traffic cameras accurately detect and alert violation events such as No-plate Vehicle Detection, Specific Lane Detection, Speeding 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 Radar Pro 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.and ensuring the safety of public transport.




### Advanced Radar Technology

Verified by radar and AI-powered LPR algorithm, the AI Road Traffic Radar Pro Bullet Plus Camera can precisely provide real-time information of detection distance, speed capture and flow control, greatly optimizing traffic monitoring, and ensuring the safety of public transport.




### Easy Deployment and Compact Structure

As an all-in-one radar camera, the radar module is directly integrated in the camera, which is easy to deploy for the users. And the well-designed integrated junction box and versatile interfaces ensure installation efficiency.



# AI Road Traffic Radar Pro Bullet Plus Camera



| | Name | TS4466-X4RIVPG1(TS)<br>(4MP) |
|---|---|---|
| **Camera** | Image Sensor | 1/1.8” Progressive Scan CMOS |
| | Min. Illumination | Color: 0.005Lux@F1.6<br>B/W: 0Lux with IR on |
| | WDR | Support |
| | Shutter Time | 1/100000s~1s |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule |
| | IR Wave Length | 850nm |
| | Illumination Distance | Up to 50m |
| | S/N | >55dB |
| **Lens** | Lens | Motorized 8~32mm, 4X Optical Zoom |
| | Field of View | H44°~H13°/D51°~D15°/V25°~V7° |
| | Mount | Φ14 |
| | Focus Control | Auto/ Semi-Auto/ Manual |
| | Aperture | F1.6~F1.7 |
| | P-Iris | Support |
| | Iris Control | Auto |
| **Road Traffic Management** | Max. Vehicle Speed | 160km/h |
| | Capture Rate | 99% |
| | Recognition Accuracy | 98% |
| | 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, Speed Detection<br>* Vehicle Color and Plate Color identification are not supported in low-light or night conditions. |
| | Smart Traffic Function | Evidence Camera Linkage, Specific Lane Management, Vehicle Classification & Counting |
| | White/Black List | Up to 20,000 records inside the camera |
| | LPR Smart Search | Support |
| **Radar** | Working Frequency | 60GHz, 61~62GHz |
| | Capture Rate | >99% (Traffic jam >95%) |
| | Lane Coverage | 1~2 Lanes (Recognition ≥95% individually) |
| | Tracking Target | Up to 32 |
| | Speed Detection Range | 5km/h~160km/h |
| | Speed Detection Accuracy | ±2km/h |
| | Distance Detection Accuracy | ±0.4m |
| | Angle Measurement Accuracy | ±0.5° |

# AI Road Traffic Radar Pro Bullet Plus Camera



| | | |
|---|---|---|
| **Interface** | Ethernet | 1*RJ45 10M/100M Ethernet Port |
| | Audio I/O | 1/1 |
| | Alarm Input | 2 |
| | Alarm Output | 2 (1 relay output; 1 open collector output, max. 12V DC/10mA) |
| | Wiegand | 1 |
| | RS485 | 1 |
| **Video** | Max. Image Resolution | 2688x1520 |
| | Primary Stream | 60Hz: 60fps@(2688x1520, 2304x1296, 1920x1080, 1280x720)<br>50Hz: 50fps@(2688x1520, 2304x1296, 1920x1080, 1280x720) |
| | 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, 352x288, 320x240)<br>50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288, 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/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, EIS, 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) |
| | Power Supply | PoE (802.3at) / DC 12V±10% |
| | Power Consumption | Min.: 7.2W (DC 12V), 8.3W(PoE)<br>Max.: 17.4W (DC 12V), 21W(PoE) |



| | | |
|---|---|---|
| | Weather Proof | Up to IP67-rated for Weather-resistant Performance |
| | Surge Protection | 4KV |
| | Weight | 2300g |
| | Dimensions | 346mmX134mmX181mm |
| | Warranty | 3/5 Years |
| **Certifications** | EMC | CE-EMC (EN 55032, EN 55035), FCC (PART 15B), RCM-EMC (AS/NZS CISPR 32:2015+A1(2020)) |
| | Safety | CE-LVD (EN IEC 62368-1), RCM-LVD (IEC 62368-1:2018) |
| | Environment | CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU) |

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| | Min. Illumination | Color: 0.009Lux@F1.6<br>B/W: 0Lux with IR on |
| | Shutter Time | 1/100000s~1s |
| | Day/Night Mode | Day/Night/Auto/Customize/Schedule |
| | IR Wave Length | 850nm |
| | Illumination Distance | Up to 60m |
| | S/N | >55dB |
| **Lens** | Lens | 8~32mm, 4X Optical Zoom |
| | Field of View | H44°~H13°/D51°~D15°/V25°~V7° |
| | Mount | Φ14 |
| | Focus Control | Auto/ Semi-Auto/ Manual |
| | Aperture | F1.6~F1.7 |
| | P-Iris | Support |
| | Iris Control | Auto |
| **Road Traffic Management** | Max. Vehicle Speed | 120km/h |
| | Capture Rate | 99% |
| | Recognition Accuracy | 98% |
| | Coverage | 3 lanes |
| | Country Region Supported | More than 80 countries and regions |
| | ANPR Distance | Up to 50m |
| | Attributes Identification | Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand,<br>No-plate Vehicle Capture, Vehicle Direction Detection, Speed Detection<br>* Vehicle Color and Plate Color identification are not supported in low-light or night conditions. |
| | Smart Traffic Function | Evidence Camera Linkage, Specific Lane Management, Vehicle Classification & Counting |
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| | Alarm Output | 2 (1 relay output; 1 open collector output, max. 12V DC/10mA) |
| | Wiegand | 1 |
| | RS485 | 1 |
| **Video** | Max. Image Resolution | 3840x2160 |
| | Primary Stream | 60Hz: 60fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720)<br>50Hz: 50fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720) |
| | Secondary Stream | 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240)<br>50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240) |
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| | 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/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 |
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| | 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, EIS, Anti-flicker, Corridor Mode, Deblur, Watermark |
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| | 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) |
| | Power Supply | PoE (802.3at) / DC 12V±10% |
| | Power Consumption | Min.: 8W (DC 12V), 9.6W(PoE)<br>Max.: 19.2W (DC 12V), 21.6W(PoE) |
| | Weather Proof | Up to IP67-rated for Weather-resistant Performance |
| | Surge Protection | 4KV |

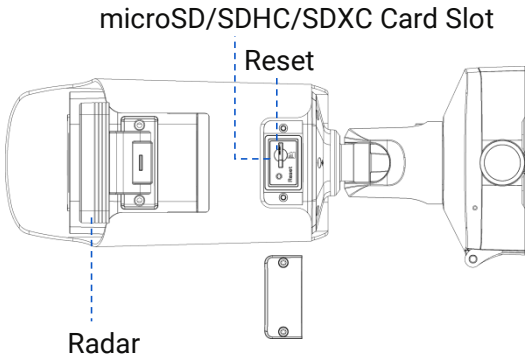


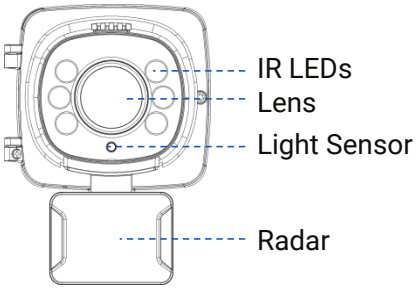
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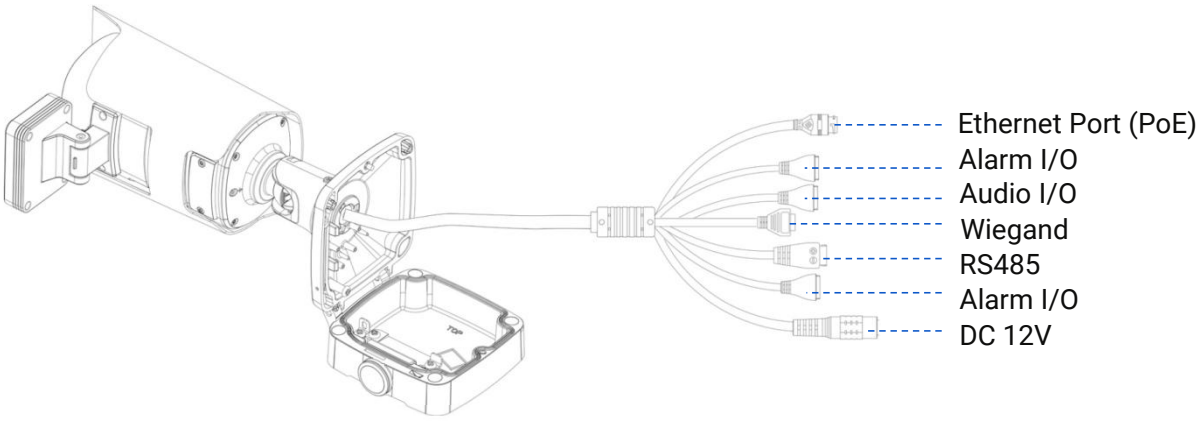
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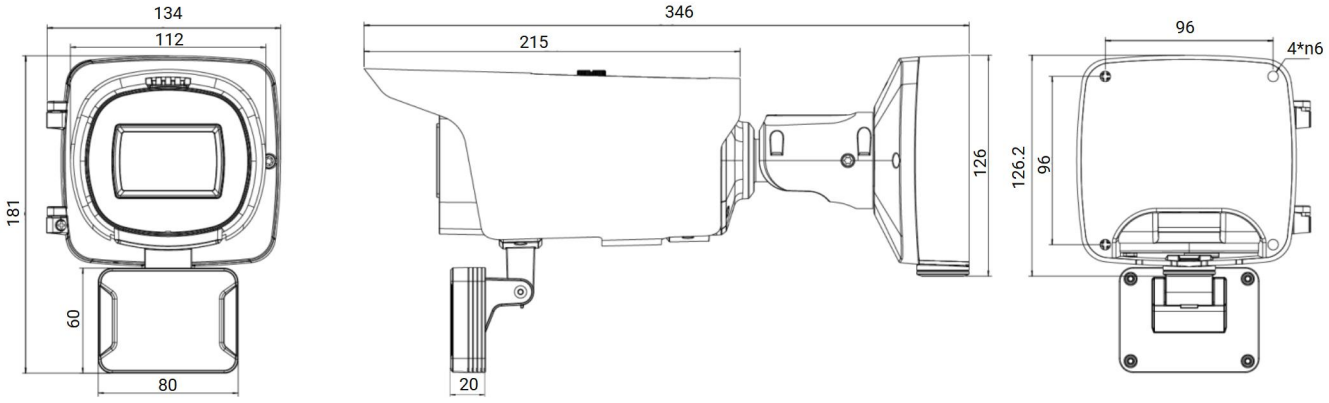


## Structure Diagrams




Units: mm

## Accessories Support

**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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