

# AI Road Traffic Speed Dome Camera

IP66

AF Lens



DATASHEET



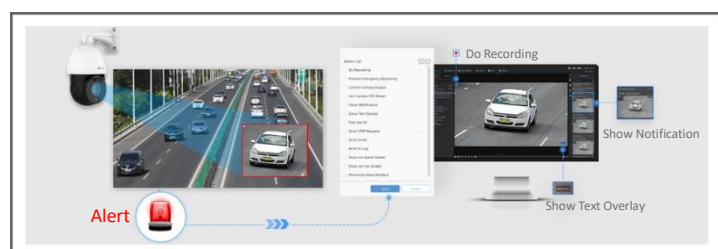
NDAA

## KEY FEATURES

- ▶ Superior Image Quality (Starlight Sensor, Smart IR II Technology 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.)

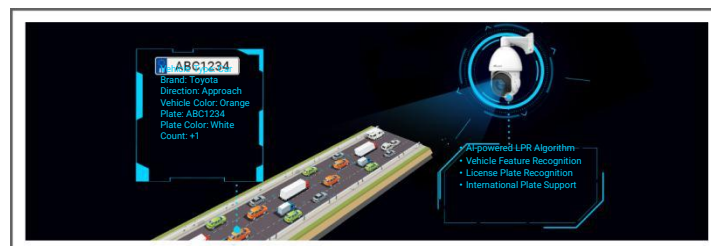
## Traffic Violation Detection

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.



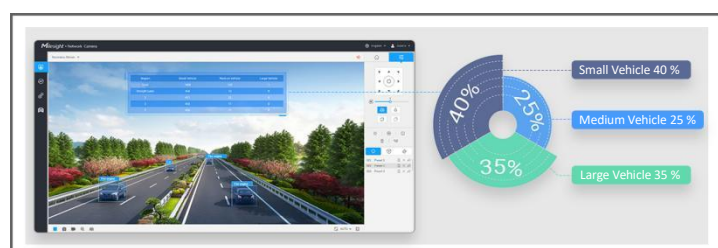
## Intelligent AI-powered LPR Algorithm

The AI Road Traffic Speed Dome 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.



## Smart Rain-Sensing Wiper (Optional)

The rain sensor is used to detect the rain, realizing a smarter control of the wiper function. The speed and frequency of the wiper are intelligently adjusted according to the rain. By smart rain-sensing wiper, AI Road Traffic Speed Dome Camera can clear rainwater automatically, providing sharp images even in rainy days.



# AI Road Traffic Speed Dome Camera



|                         | Name                      | TS4441-X36RPE<br>(4MP)                                                                    | TS4441-X36RPE<br>/W<br>(4MP) | TS4441-X36RE<br>(4MP) |
|-------------------------|---------------------------|-------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| Camera                  | Image Sensor              | 1/1.8" Progressive Scan CMOS                                                              |                              |                       |
|                         | Min. Illumination         | Color: 0.002Lux@F1.55<br>B/W: 0Lux with IR on                                             |                              |                       |
|                         | Shutter Time              | 1/100000s~1s                                                                              |                              |                       |
|                         | Digital Zoom              | 16X                                                                                       |                              |                       |
|                         | Day/Night Mode            | Day/Night/Auto/Customize/Schedule                                                         |                              |                       |
|                         | IR Wave Length            | 850nm                                                                                     |                              | 740nm                 |
|                         | Illumination Distance     | Up to 180m                                                                                |                              | Up to 120m            |
|                         | 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        | 120km/h                                                                                   |                              |                       |
|                         | Capture Rate              | 99%                                                                                       |                              |                       |
|                         | Recognition Accuracy      | 98%                                                                                       |                              |                       |
|                         | Coverage                  | 2 lanes                                                                                   |                              |                       |
|                         | Country Region Supported  | More than 80 countries and regions                                                        |                              |                       |
|                         | ANPR Distance             | Up to 120 m (PoE); Up to 180 m (AC/DC power)                                              |                              | Up to 100m            |
|                         | 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 20,000 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            |                              |                       |

# AI Road Traffic Speed Dome Camera



|         |                       |                                                                                                                                                                    |                              |
|---------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|         | Proportional Zoom     | Support                                                                                                                                                            |                              |
|         | Preset Quantity       | 300                                                                                                                                                                |                              |
|         | Patrol                | 8 Patrols, up to 48 presets each patrol                                                                                                                            |                              |
|         | 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 | 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@(1280x720, 704x576, 640x480, 640x360, 320x240)<br>50Hz: 25fps@(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 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, 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, 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%) / DC 24V                                                                                                                           | AC 24V (3A±10%) / DC 24V     |
|         | Power Consumption     | Min.: 13.4W (AC 24V/ DC 24V), 15.1W(PoE)                                                                                                                           | Min.: 13.4W (AC 24V/ DC 24V) |
|         |                       | Max.: 24.5W (AC 24V/ DC 24V), 26.8W(PoE)                                                                                                                           | Max.: 24.5W (AC 24V/ DC 24V) |

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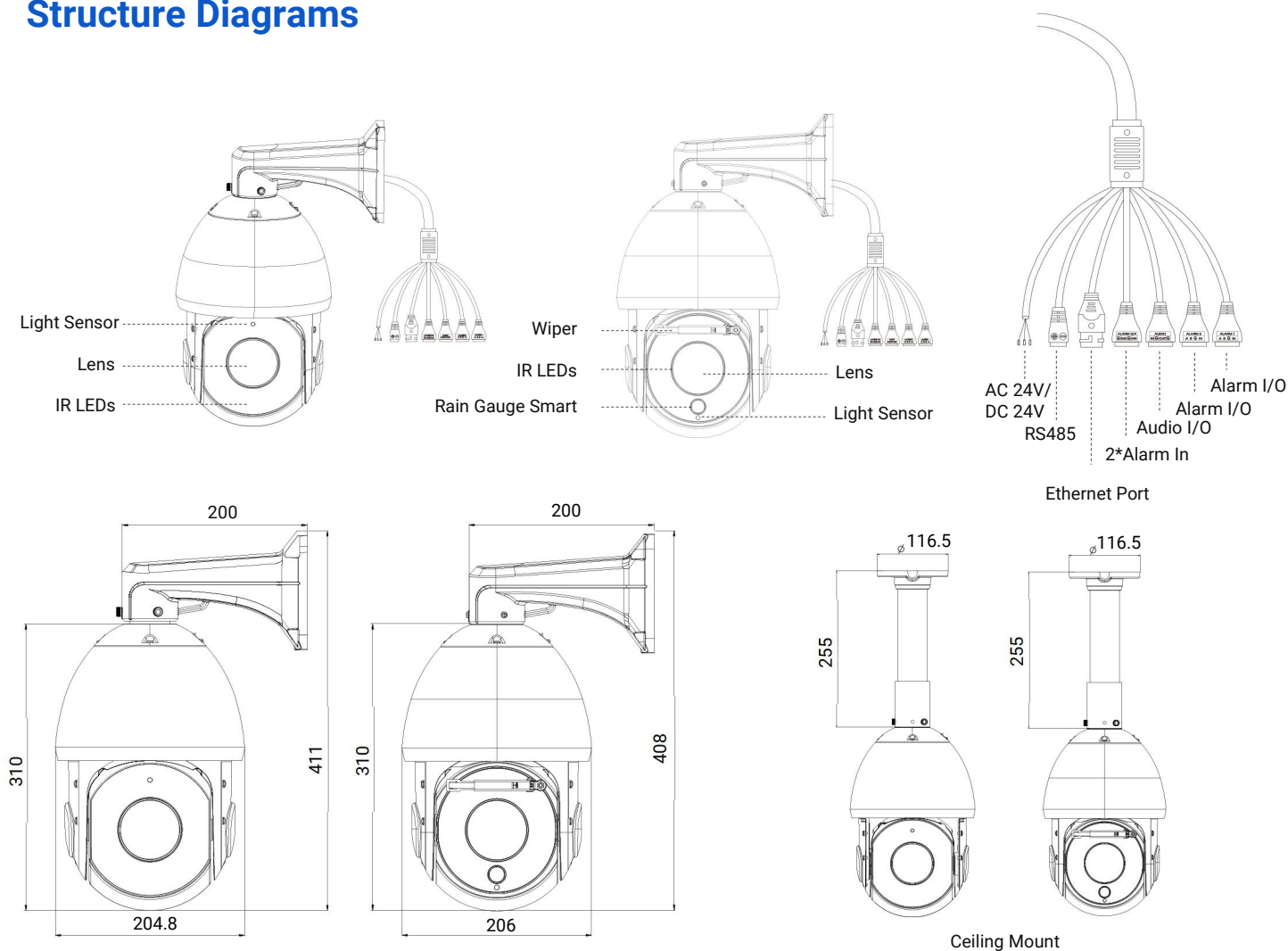
|                       |                   |                                                                                                      |                                                    |                                                                                                      |
|-----------------------|-------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                       | 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 | Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing(Optional) |
|                       | Heater            | Support                                                                                              |                                                    |                                                                                                      |
|                       | Wiper             | -                                                                                                    | Support                                            | -                                                                                                    |
|                       | Surge Protection  | 6KV                                                                                                  |                                                    |                                                                                                      |
|                       | Dimensions/Weight | Φ205mmX308mm/4Kg                                                                                     |                                                    |                                                                                                      |
|                       | Warranty          | 2 Years / 3 Years (Optional)                                                                         |                                                    |                                                                                                      |
| <b>Certifications</b> | 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)                                                |                                                    |                                                                                                      |

V1.3

# AI Road Traffic Speed Dome Camera



## Structure Diagrams



Units: mm

## Accessories Support

### A41 Wall Mount(Default)

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



### A02 V2 Pole Mount

Weight: 1kg  
Dimensions: 180\*136\*46mm



### 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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