



# Vehicle video evidence.

## AI Traffic Series: Motorised Lens 4.0MP bullet camera with AI-enhanced ANPR

Specially designed for number plate enhancement, Traffic AI Series number plate cameras are designed to obtain video evidence with vehicle identification in controlled environments with challenging lighting conditions. Enhanced with AI, this series has superior plate recognition compared to earlier ANPR models and additional smart features.

- Stream beyond HD 4.0MP (2688 x 1520) at 25fps
- Up to 8~32mm motorised lens (40 ~15°) focal length
- Automatic number-plate recognition (ANPR)
- AI-enhanced plate capture and vehicle detection
- Edge enhancement for number plate detail & legibility
- Supports shutter speed windowing; set min/max speed
- Highlight compensation removes headlight glare
- Capture number plates for vehicles going up to 120km
- Identify vehicle size, colour & direction with AI
- IP67 weather & vandal resistant metal housing



**Automatic Number Plate Recognition**



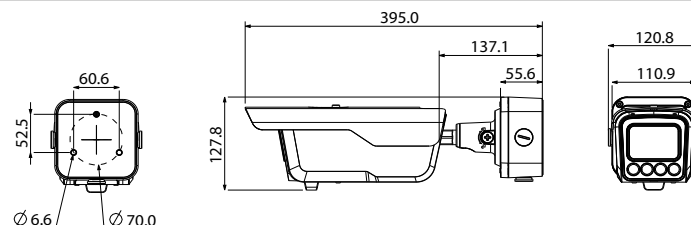
**Detailed OSD Configuration**



**Vehicle Data Structuring with AI**

| Specifications       |                        | 4.0MP Number Plate Bullets + AI Enhanced ANPR                                                                                                                                                                                    |                                                                                  |
|----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Ordering Information |                        | VSIPNP-4BIRM-13                                                                                                                                                                                                                  | VSIPNP-4BIRM-13-Z                                                                |
| Camera               | Image Sensor           | 1/1.8" 2.0MP Progressive Scan CMOS                                                                                                                                                                                               |                                                                                  |
|                      | Effective Pixels       | 2688 (H) x 1520 (V)                                                                                                                                                                                                              |                                                                                  |
|                      | RAM / ROM              | 1 GB / 4 GB                                                                                                                                                                                                                      |                                                                                  |
|                      | Min Illumination       | 0.001 Lux/F1.4 (Color), 0.0002 Lux/F1.4 (IR on)                                                                                                                                                                                  | 0.001 Lux/F1.6 (Color), 0.0002 Lux/F1.6 (IR on)                                  |
|                      | S/N Ratio              | >56 dB                                                                                                                                                                                                                           |                                                                                  |
|                      | LED Illumination       | 1x Red/Blue Indicators                                                                                                                                                                                                           |                                                                                  |
| Lens                 | Infrared System        | 4 x Infrared LED, 10m range (ANPR) 30m range (video), Auto/manual on/off control                                                                                                                                                 | 4 x Infrared LED, 30m range (ANPR) 60m range (video), Auto/manual on/off control |
|                      | Lens / Iris            | 2.7 ~ 12mm F1.4 Motorised Varifocal Lens with Auto Iris                                                                                                                                                                          | 8 ~ 32mm F1.3 Motorised Varifocal Lens with Auto Iris                            |
|                      | Field of View          | Horizontal: 92°~46°, Vertical: 49°~26°, Diagonal: 109°~ 53°                                                                                                                                                                      | Horizontal: 40°~15°, Vertical: 22°~9°, Diagonal: 47°~ 17°                        |
| DORI                 | Focus                  | Auto / Manual / Area Focus                                                                                                                                                                                                       |                                                                                  |
|                      | Detect (25px/m)        | 60m (W), 129m (T)                                                                                                                                                                                                                | 160m (W), 407m (T)                                                               |
|                      | Observe (63px/m)       | 24m (W), 52m (T)                                                                                                                                                                                                                 | 64m (W), 163m (T)                                                                |
|                      | Recognise (125px/m)    | 12m (W), 26m (T)                                                                                                                                                                                                                 | 32m (W), 81m (T)                                                                 |
|                      | Identify (250px/m)     | 6m (W), 13m (T)                                                                                                                                                                                                                  | 16m (W), 41m (T)                                                                 |
| Video                | Resolution             | 4.0MP (1920 x 1080) to CIF (352 x 288, 352 x 240)                                                                                                                                                                                |                                                                                  |
|                      | Frame Rate             | Main                                                                                                                                                                                                                             | 4.0MP (1 ~ 25fps)                                                                |
|                      |                        | Sub                                                                                                                                                                                                                              | 720p (1 ~ 25fps)                                                                 |
|                      |                        | Third                                                                                                                                                                                                                            | N/A                                                                              |
|                      | Video Compression      | H.265 / H.264M / H.264H / H.264B / H.265 / MJPEG / H.264M                                                                                                                                                                        |                                                                                  |
|                      | Bit Rate               | H.264B / H.264M / H.264H / H.265: 2,179 kbps~13,074 kbps, MJPEG: 6,537 kbps~39,223 kbps                                                                                                                                          |                                                                                  |
|                      | Bit Rate Control       | Constant bit rate (CBR) / Variable bit rate (VBR)                                                                                                                                                                                |                                                                                  |
|                      | Day/Night              | Auto (ICR) / Color / B&W / IR filter                                                                                                                                                                                             |                                                                                  |
|                      | Lighting Compensation  | BLC / HLC / WDR (140dB)                                                                                                                                                                                                          |                                                                                  |
|                      | Smart Scene Adaptive   | Yes                                                                                                                                                                                                                              |                                                                                  |
|                      | Gain Control           | Auto / Manual                                                                                                                                                                                                                    |                                                                                  |
|                      | White Balance          | Auto / Manual / Regional Custom / Outdoor / Natural / Street Lamp                                                                                                                                                                |                                                                                  |
|                      | Noise Reduction        | 3D DNR                                                                                                                                                                                                                           |                                                                                  |
|                      | Picture Control        | N/A                                                                                                                                                                                                                              |                                                                                  |
| IVS                  | Intelligent Functions  | Number Plate Edge Enhancement, Number Plate Recognition, Video Detection, I/O Coil, Snapshot, OSD (Time, Location, Number Plate, Lane No.), Barrier Control (1ch Relay Out), Vehicle Data Structuring (Speed, Colour, Type etc.) |                                                                                  |
|                      | Vehicle Recognition    | Vehicle Type, Speed, Logo, Series, Color, Number Plate, Size, Features of Driver and Front-seat Passenger, Vehicles without Plate. Vehicle recognition rate ≥96%                                                                 |                                                                                  |
|                      | Detection Range / Rate | Capture Range: 3 ~ 8m / Lane Width: 3 ~ 4m / Detection Rate: ≥99%                                                                                                                                                                | Capture Range: 8 ~ 30m / Lane Width: 6 ~ 8m / Detection Rate: ≥99%               |
|                      | Max. Detection Speed   | 80km/h                                                                                                                                                                                                                           | 120km/h                                                                          |
|                      | Max. Passed Vehicles   | 10,000                                                                                                                                                                                                                           |                                                                                  |
| Network              | Whitelist/Blacklist    | Whitelist: 110,000 / Blacklist: 110,000                                                                                                                                                                                          |                                                                                  |
|                      | Ethernet               | RJ-45 (10/100/1000 Base-T)                                                                                                                                                                                                       |                                                                                  |
|                      | Protocol               | HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPv4/v6; NTP; SFTP; DDNS; SNMP; PPPoE                                                                                                                 |                                                                                  |
| Interface            | Max. User Access       | 20                                                                                                                                                                                                                               |                                                                                  |
|                      | Video Interface        | N/A                                                                                                                                                                                                                              |                                                                                  |
|                      | Audio Interface        | Built-in Mic (3m Pick-up Distance) & Built-in Speaker                                                                                                                                                                            |                                                                                  |
|                      | Alarm Interface        | 2 Input / 2 Output                                                                                                                                                                                                               |                                                                                  |
|                      | RS485                  | 2x ports                                                                                                                                                                                                                         |                                                                                  |
| Environmental        | Edge Storage           | MicroSD Card Slot (up to 256GB)                                                                                                                                                                                                  |                                                                                  |
|                      | Interoperability       | ONVIF / ITSAPI / CGI / P2P                                                                                                                                                                                                       |                                                                                  |
|                      | Power Supply           | 12VDC / PoE+ (802.3at)                                                                                                                                                                                                           |                                                                                  |
|                      | Power Consumption      | <6W (standby), <12W (light), <17W (Speaker and Red/Blue lights)                                                                                                                                                                  |                                                                                  |
|                      | Operating Conditions   | -30° ~ +65° C / 10 ~ 90% RH                                                                                                                                                                                                      |                                                                                  |
|                      | Ingress Protection     | IP67                                                                                                                                                                                                                             |                                                                                  |
|                      | Vandal Resistance      | K10                                                                                                                                                                                                                              |                                                                                  |
|                      | Housing                | Aluminum alloy + Plastic                                                                                                                                                                                                         |                                                                                  |
|                      | Pan/Tilt/Rotation      | N/A                                                                                                                                                                                                                              |                                                                                  |
|                      | Dimensions             | 395 x 121 x 128mm                                                                                                                                                                                                                |                                                                                  |
|                      | Net Weight             | 2.3kg                                                                                                                                                                                                                            |                                                                                  |

## Application



Pole Mount

VSIBKTA150

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