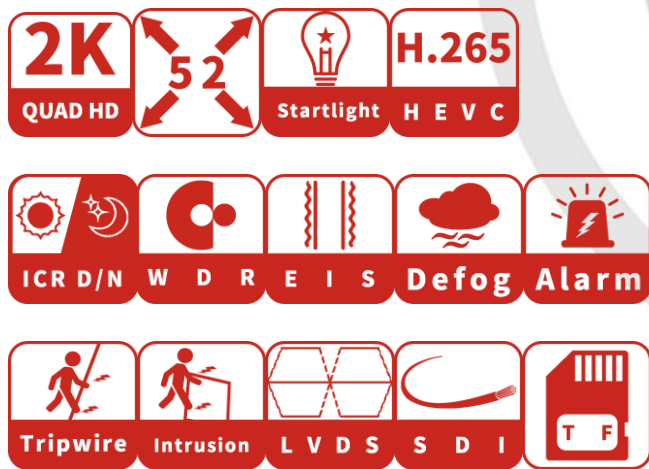


4MP 52×ZOOM ULTRA LONG-RANGE LOW LIGHT FULL COLOR AI CAMERA MODULE | VS-SCZ4052VIM-8



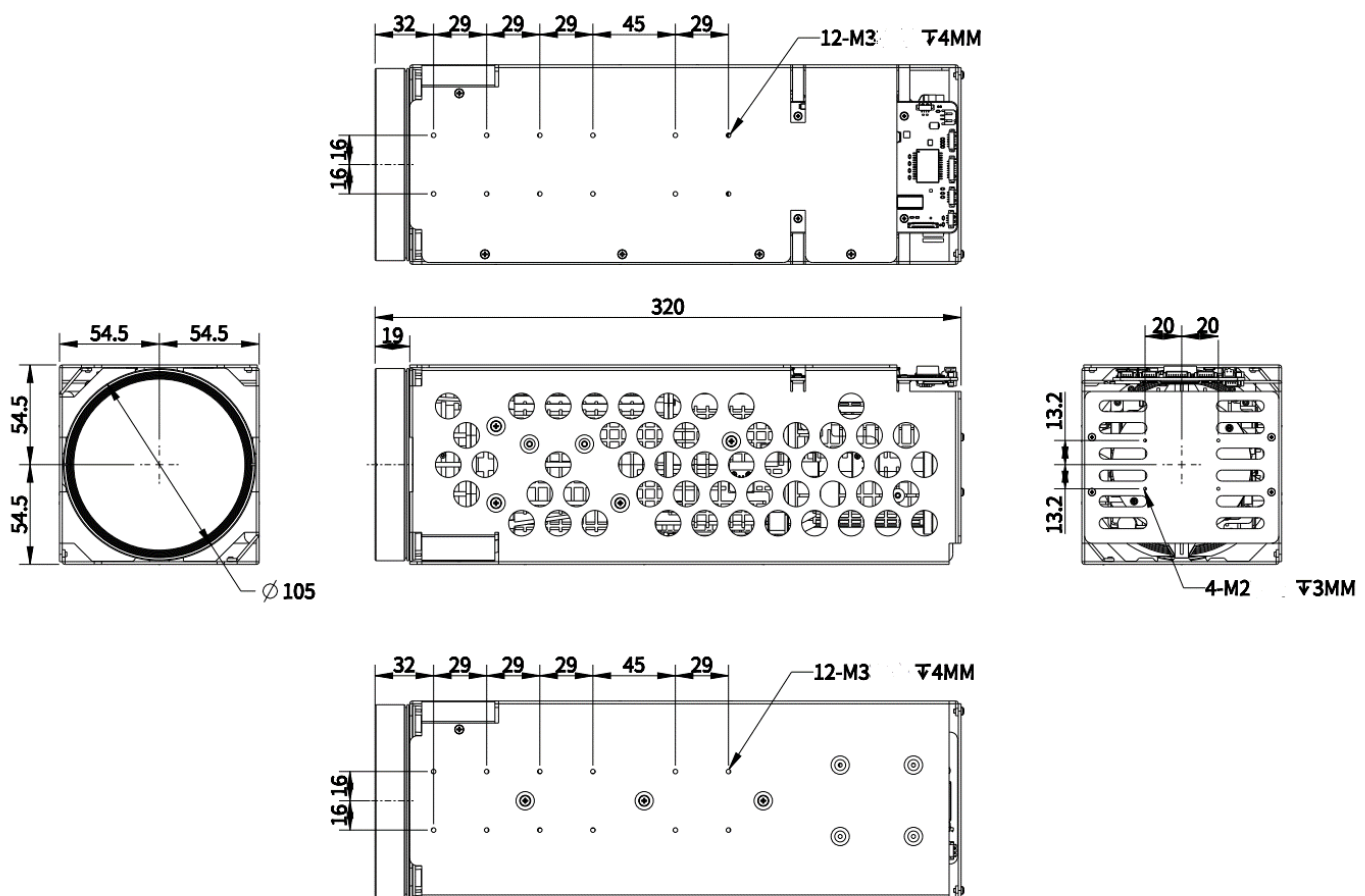
- **AI ISP:** Powerful AI noise reduction enables the camera to obtain pure full-color images even in low illumination environments.
- **Clearer:** Multiple pieces of aspherical optical glass, up to 1300 TV Lines, approximately 30% clearer than comparable products.
- **Fast and accurate autofocus:** Fast and accurate focus with stepper motors drive for multiple applications such as fast tracking.
- **Better environmental adaptability:** Supports Optical-Defog, Optical heat haze Reduction, adaptable to multiple application scenarios.
- **More compact:** The length is only 32 cm, a 30% reduction in length compared to the same specification bullet camera + C-mount telephoto lens solution, reducing the size of the PTZ housing requirement.
- **Lightweight design:** Weighs only 3.1kg, a 50% weight reduction compared to the same specification bullet camera + C-mount telephoto lens solution, reducing the load requirements on the PTZ and reducing the cost of the PTZ and installation costs.

Specification

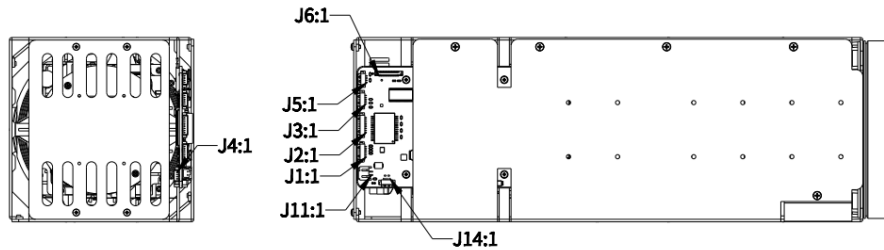
| Camera | | |
|-----------------------|----------------------|---|
| Sensor | Type | 1/1.8" Sony Progressive Scan CMOS |
| | Total Pixels | 4.17 M Pixels |
| Lens | Focal Length | 15 ~ 775mm |
| | Zoom | 52× |
| | Aperture | FNo: 2.8 ~ 8.2 |
| | HFOV (°) | 29.1° ~ 0.5° |
| | VFOV (°) | 16.7° ~ 0.3° |
| | DFOV (°) | 33.2° ~ 0.6° |
| | Close Focus Distance | 1m ~ 10m (Wide ~ Tele) |
| | Zoom Speed | 7 Sec (Optics, Wide ~ Tele) |
| Video & Audio Network | Compression | H.265/H.264/H.264H/MJPEG |
| | Resolution | Main Stream: 2688*1520@25/30fps; 1920*1080@25/30fps Sub Stream1: D1@25/30fps; CIF@25/30fps Sub Stream2: 1920*1080@25/30fps; 1280*720@25/30fps; D1@25/30fps LVDS: 1920*1080@25/30fps |
| | Video Bit Rate | 32kbps ~ 16Mbps |
| | Audio Compression | AAC/MP2L2 |
| | Storage Capabilities | TF card, up to 256GB |
| | Network Protocols | ONVIF, HTTP, RTSP, RTP, TCP, UDP |
| | General Events | Motion Detection, Tamper Detection, Scene Changing, Audio Detection, SD Card, Network, Illegal Access |
| | IVS | Tripwire, Intrusion, Loitering, etc. |
| Upgrade | | Support |
| Min Illumination | | Colour: 0.0005Lux@ (F2.8, AGC ON) |
| Intelligent Functions | | Person/Car/Fire/Smoke |
| Shutter Speed | | 1/1 ~ 1/30000 Sec |
| Noise Reduction | | 2D / 3D |
| Image Settings | | Saturation, Brightness, Contrast, Sharpness, Gamma, etc. |
| Flip | | Support |
| Exposure Model | | Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority |
| Exposure Comp | | Support |
| WDR | | Support |
| BLC | | Support |
| HLC | | Support |
| S/N Ratio | | ≥ 55dB (AGC Off, Weight ON) |
| AGC | | Support |

| | |
|--------------------------------|---|
| White Balance (WB) | Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/Natural/Street Lamp/One Push |
| Day/Night | Auto (ICR)/Manual (Colour, B/W) |
| Digital Zoom | 16× |
| Focus Model | Auto/Manual/Semi-Auto |
| Defog | Electronic-Defog / Optical-Defog |
| Image Stabilisation | Electronic Image Stabilisation (EIS) |
| External Control | 2× TTL3.3V, Compatible with VISCA and PELCO protocols |
| Video Output | Network & LVDS |
| Baud Rate | 9600 (Default) |
| Operating Conditions | -30°C ~ +60°C; 20% to 80% RH |
| Storage Conditions | -40°C ~ +70°C; 20% to 95% RH |
| Weight | 3100g |
| Power Supply | +9 ~ +12V DC |
| Power Consumption | Static:4W; Max:9.5W |
| Dimensions (mm) | Length * Width * Height: 320*109*109 |
| Install the positive direction | The main board of the camera is facing down |

Dimensions (mm)



Interface



| J1 (A1251-06A 1.25MM) | |
|-----------------------|-------------------------|
| 1 | +12V |
| 2 | GND |
| 3 | UART2_RX(TTL3.3V,Pelco) |
| 4 | UART2_TX(TTL3.3V,Pelco) |
| 5 | UART1_RX(TTL3.3V,Visca) |
| 6 | UART1_TX(TTL3.3V,Visca) |

| J2 (A1251-08A 1.25MM) | |
|-----------------------|--------|
| 1 | TX_D1+ |
| 2 | TX_D1- |
| 3 | RX_D2+ |
| 4 | RX_D2- |
| 5 | BI_D3+ |
| 6 | BI_D3- |
| 7 | BI_D4+ |
| 8 | BI_D4- |

| J3 (A1251-05A 1.25MM) | |
|-----------------------|-----------|
| 1 | AUDIO_OUT |
| 2 | GND |
| 3 | AUDIO_IN |
| 4 | GND |
| 5 | CVBS |

| J4 (A1251-04A 1.25MM) | |
|-----------------------|----------|
| 1 | +VDD_USB |
| 2 | USB_DP |
| 3 | USB_DM |
| 4 | GND |

| J5 (A1251-04A 1.25MM) | |
|-----------------------|----------|
| 1 | +12V |
| 2 | GND |
| 3 | UART3_TX |
| 4 | UART3_RX |

| J6 (USL00-30L 0.4MM) | |
|----------------------|-------------------------|
| 1-8 | NC |
| 9-12 | GND |
| 13-17 | +12V |
| 18 | UART1_RX(TTL3.3V,Visca) |
| 19 | UART1_TX(TTL3.3V,Visca) |
| 20 | GND |
| 21 | TXOUT0- |
| 22 | TXOUT0+ |
| 23 | TXOUT1- |
| 24 | TXOUT1+ |
| 25 | TXOUT2- |
| 26 | TXOUT2+ |
| 27 | TXOUTCLK- |
| 28 | TXOUTCLK+ |
| 29 | TXOUT3- |
| 30 | TXOUT3+ |

| J11 (A2001AWR-02 2.0MM) | |
|-------------------------|------|
| 1 | +12V |
| 2 | GND |

| J14 (A1251-04A 1.25MM) | |
|------------------------|----------|
| 1 | +VDD_USB |
| 2 | USB2_DP |
| 3 | USB2_DM |
| 4 | GND |

Accessories



TTL to 485 Alarm Tail Board



LVDS to SDI Adapter Board



LVDS Wire