**SG-ZCM8052NDK-O**

**- 8Megapixel 52x Long Range Zoom Starlight NDAA Network and Digital Dual Output Camera Module**



**1. Features**

> 1/1.8” Sony Exmor CMOS Sensor.

> Powerful 52x optical zoom (15-775mm).

> Max. 8Mp(3840x2160) Resolution

> Support various IVS functions

> Support EIS and Optical Defog

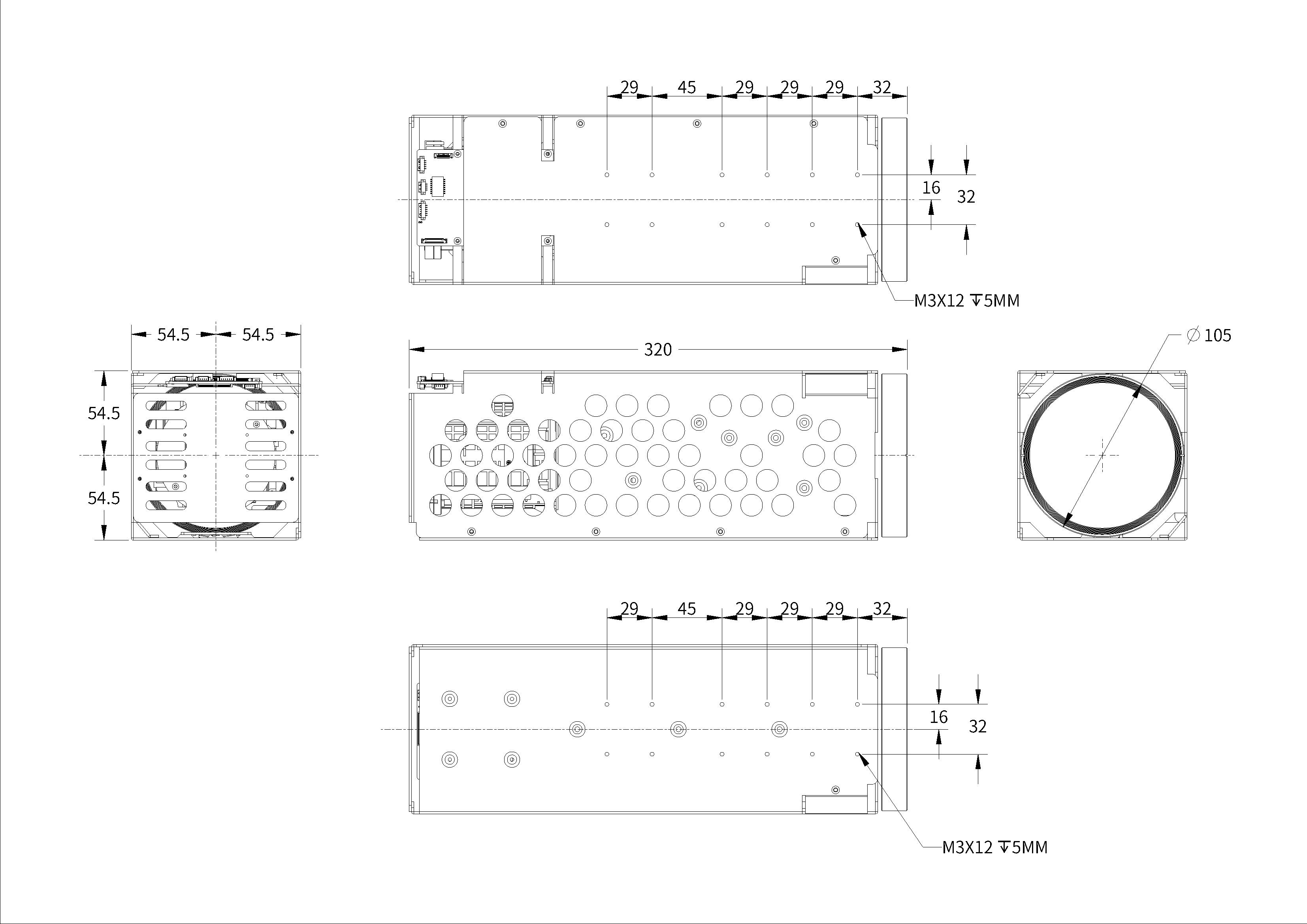
**> Support LVDS digital video output synchronously**

**>** **With NOVATEK high performance chip**

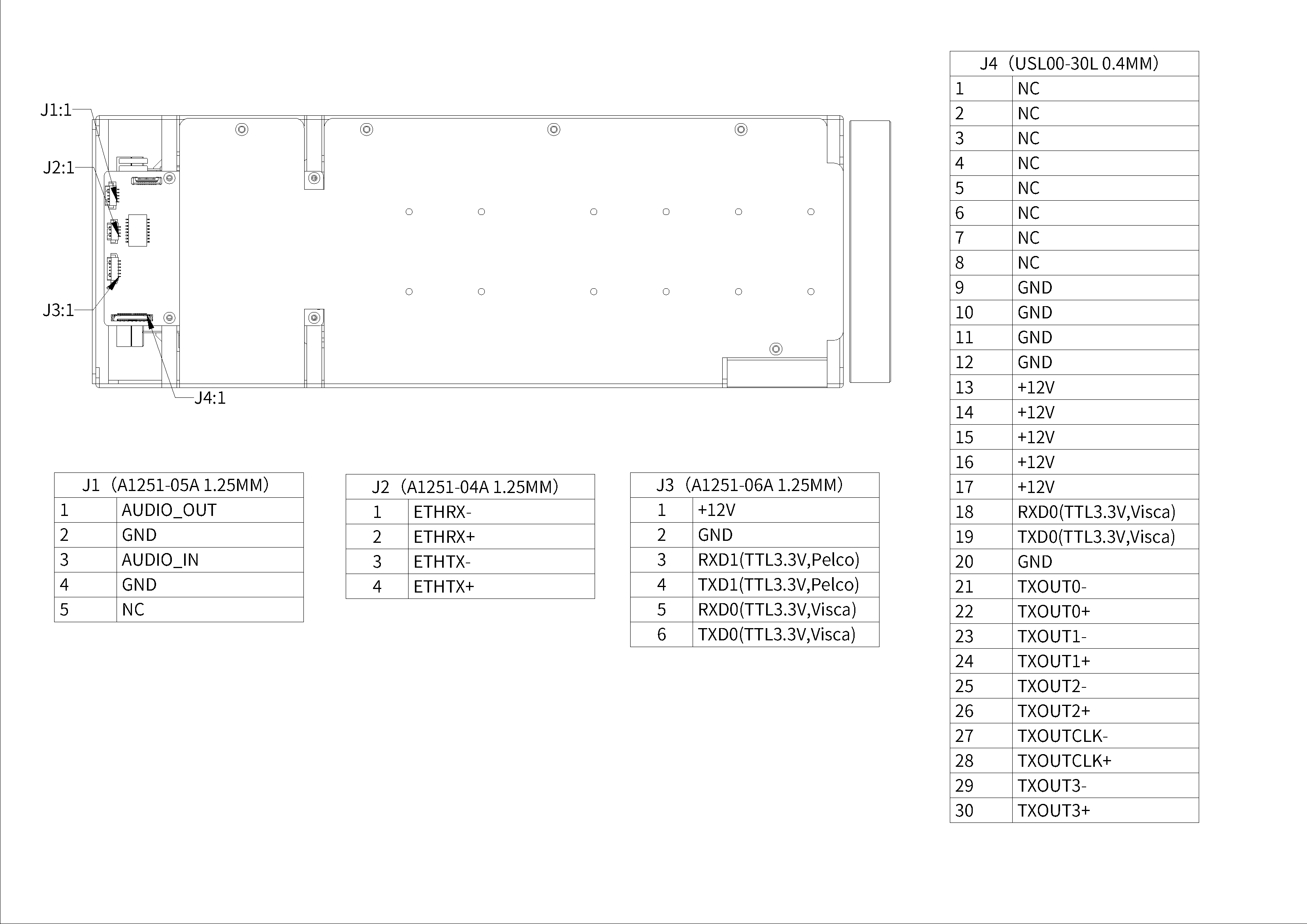
**2. Specification**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model** | | **SG-ZCM8052NDK-O** | | | |
| Sensor | Image Sensor | 1/1.8” Sony Starvis progressive scan CMOS | | | |
| Effective Pixels | Approx. 8.41 Megapixel | | | |
| Lens | Focal Length | 15mm~775mm, 52x Optical Zoom | | | |
| Aperture | F2.8~F8.2 | | | |
| Field of View | H: 28.7°~0.6°, V: 16.3°~0.3°, D: 32.7°~0.7° | | | |
| Close Focus Distance | 1m~10m (Wide~Tele) | | | |
| Zoom Speed | Approx. 7s (Optical Wide~Tele) | | | |
| DORI Distance  (Human) | Detect | Observe | Recognize | Identify |
| 14,667m | 5,820m | 2,933m | 1,466m |
| Video | Compression | H.265/H.264/H.264H/MJPEG | | | |
| Streaming Capability | 3 streams | | | |
| Resolution | 50Hz: 25fps@8MP(3840×2160)  60Hz: 30fps@8MP(3840×2160) | | | |
| Video Bit Rate | 32kbps~16Mbps | | | |
| Audio | AAC / MP2L2 | | | |
| LVDS Video | 50Hz: 25fps@2MP(1920×1080)  60Hz: 30fps@2MP(1920×1080) | | | |
| Network | Storage | TF card (256 GB), FTP, NAS | | | |
| Network Protocol | Onvif, HTTP, HTTPS, IPv4, IPv6, RTSP, DDNS, RTP, TCP, UDP | | | |
| Multicast | Support | | | |
| **Firmware Upgrade (LVDS)** | | **Only can upgrade the firmware via Network port.** | | | |
| General Events | | Motion, Tamper, SD Card, Network | | | |
| IVS | | Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection. | | | |
| S/N Ratio | | ≥55dB (AGC Off, Weight ON) | | | |
| Minimum Illumination | | Color: 0.05Lux/F2.8; B/W: 0.005Lux/F2.8 | | | |
| Noise Reduction | | 2D/3D | | | |
| Exposure Mode | | Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual | | | |
| Exposure Compensation | | Support | | | |
| Shutter Speed | | 1/1~1/30000s | | | |
| BLC | | Support | | | |
| HLC | | Support | | | |
| WDR | | Support | | | |
| White Balance | | Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push | | | |
| Day/Night | | Electrical, ICR(Auto/Manual) | | | |
| Focus Mode | | Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF | | | |
| Electronic Defog | | Support | | | |
| Optical Defog | | Support, 750nm~1100nm channel is Optical Defog | | | |
| Heat Haze Reduction | | Support | | | |
| Flip | | Support | | | |
| EIS | | Support | | | |
| Digital Zoom | | 16x | | | |
| External Control | | TTL | | | |
| Interface | | 4pin Ethernet port, 6pin Power & UART port, 5pin Audio port.  30pin LVDS | | | |
| Communication Protocol | | SONY VISCA, Pleco D/P | | | |
| Operating Conditions | | -30°C~+60°C/20% to 80%RH | | | |
| Storage Conditions | | -40°C~+70°C/20% to 95%RH | | | |
| Power Supply | | DC 12V | | | |
| Power Consumption | | Static power: 4W, Sports power: 9.5W | | | |
| Dimensions(L\*W\*H) | | 320mm\*109mm\*109mm | | | |
| Weight | | 3100g | | | |

**3. Dimension**



**4. Interface Definition**



**Network Interface**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **PIN Number** | **PIN Name** | **Description** |
| J2\_4pin Ethernet Interface | 1 | ETHRX- | Adaptive Ethernet port, Internet RX- |
| 2 | ETHRX+ | Adaptive Ethernet port, Internet RX+ |
| 3 | ETHTX- | Adaptive Ethernet port, Internet TX- |
| 4 | ETHTX+ | Adaptive Ethernet port, Internet TX+ |
| J3\_6pin Power & UART Interface | 1 | DC\_IN | DC12V |
| 2 | GND | GND |
| 3 | RXD1 | TTL Level 3.3V, Pelco Protocol |
| 4 | TXD1 | TTL Level 3.3V, Pelco Protocol |
| 5 | RXD0 | TTL Level 3.3V, Visca Protocol |
| 6 | TXD0 | TTL Level 3.3V, Visca Protocol |
| J1\_5pin Audio Interface | 1 | AUDIO\_OUT | Audio Out (Line Out) |
| 2 | GND | GND |
| 3 | AUDIO\_IN | Audio In (Line In) |
| 4 | GND | GND |
| 5 | NC | NC |

**LVDS Interface**

|  |  |  |  |
| --- | --- | --- | --- |
| **Port** | **Number** | **PIN Name** | **Description** |
| J4\_30pin LVDS Interface (Similar to SONY 30pin Digital Interface) | 1 | NC | NC |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | NC |
| 6 | NC |
| 7 | NC |
| 8 | NC |
| 9 | GND | GND |
| 10 | GND |
| 11 | GND |
| 12 | GND |
| 13 | DC\_IN | DC power input (DC+7V~+12V) |
| 14 | DC\_IN |
| 15 | DC\_IN |
| 16 | DC\_IN |
| 17 | DC\_IN |
| 18 | UART1\_TX | TTL level 3.3V, VISCA protocol, the same to TXD0 on J3\_6pin Port. But cannot connect at the same time. |
| 19 | UART1\_RX | TTL level 3.3V, VISCA protocol, the same to RXD0 on J3\_6pin Port. But cannot connect at the same time. |
| 20 | GND | GND |
| 21 | TXOUT0- |  |
| 22 | TXOUT0+ |  |
| 23 | TXOUT1- |  |
| 24 | TXOUT1+ |  |
| 25 | TXOUT2- |  |
| 26 | TXOUT2+ |  |
| 27 | TXOUTCLK- |  |
| 28 | TXOUTCLK+ |  |
| 29 | TXOUT3- |  |
| 30 | TXOUT3+ |  |

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\*Design and specifications are subject to change without prior notification.

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