

# PXL-ZCM0258-IFND

2Mp 58x Long Range Zoom NDAA  
Network and Digital Dual Output  
OIS Camera Module



## | Key Features

- > 1/1.8" Sony Exmor CMOS Sensor.
- > Powerful 58x optical zoom (6.3~365mm).
- > Max. 2Mp(1920×1080) Resolution.
- > Support various IVS functions.
- > Support Defog and Optical Defog.
- > Support OIS function (Optical Image Stabilization).
- > Support LVDS digital video output synchronously.
- > With NOVATEK high performance chip.

# | TECHNICAL SPECIFICATION

| Model                   |                       | PXL-ZCM0258-IFND                                                                                                                              |         |           |          |
|-------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|----------|
| Sensor                  | Image Sensor          | 1/1.8" Sony Starvis progressive scan CMOS                                                                                                     |         |           |          |
|                         | Effective Pixels      | Approx. 4.17 Megapixel                                                                                                                        |         |           |          |
| Lens                    | Focal Length          | 6.3mm~365mm, 58x Optical Zoom                                                                                                                 |         |           |          |
|                         | Aperture              | F1.5~F6.4                                                                                                                                     |         |           |          |
|                         | Field of View         | H: 63.4°~1.2°, V: 38.5°~0.7°, D: 70.8°~1.4°                                                                                                   |         |           |          |
|                         | Close Focus Distance  | 5m~10m (Wide~Tele)                                                                                                                            |         |           |          |
|                         | Zoom Speed            | Approx. 8s (Optical Wide~Tele)                                                                                                                |         |           |          |
|                         | DORI Distance (Human) | Detect                                                                                                                                        | Observe | Recognize | Identify |
|                         |                       | 3,666m                                                                                                                                        | 1,455m  | 733m      | 366m     |
| Video                   | Compression           | H.265/H.264/H.264H/MJPEG                                                                                                                      |         |           |          |
|                         | Streaming Capability  | 3 streams                                                                                                                                     |         |           |          |
|                         | Resolution            | 50Hz: 50fps@2MP(1920×1080), 25fps@1MP(1280×720)<br>60Hz: 60fps@2MP(1920×1080), 30fps@1MP(1280×720)                                            |         |           |          |
|                         | Video Bit Rate        | 32kbps~16Mbps                                                                                                                                 |         |           |          |
|                         | Audio                 | AAC / MP2L2                                                                                                                                   |         |           |          |
|                         | LVDS Video            | 50Hz: 25fps@2MP(1920×1080)<br>60Hz: 30fps@2MP(1920×1080)                                                                                      |         |           |          |
| Network                 | Network Protocol      | IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour |         |           |          |
|                         | API                   | ONVIF, HTTP API, SDK                                                                                                                          |         |           |          |
|                         | Web Browser           | IE, Edge, Firefox, Chrome                                                                                                                     |         |           |          |
|                         | User                  | Up to 20 users, 2 level: Administrator, User                                                                                                  |         |           |          |
|                         | Storage               | Micro SD/SDHC/SDXC card (Up to 1TB) edge storage, FTP, NAS                                                                                    |         |           |          |
|                         | Multicast             | Support                                                                                                                                       |         |           |          |
| Firmware Upgrade (LVDS) |                       | Only can upgrade the firmware via Network port.                                                                                               |         |           |          |
| General Events          |                       | Motion, Tamper, SD Card, Network                                                                                                              |         |           |          |

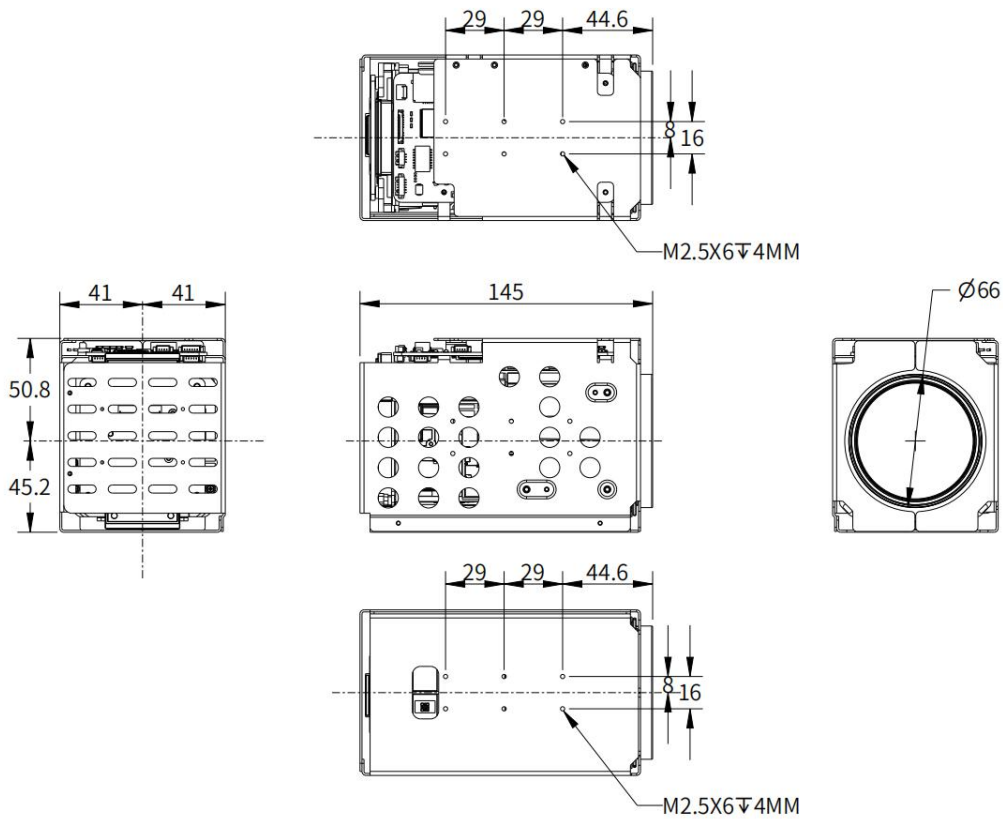
\* Technical specifications and images are subject to changes

## | TECHNICAL SPECIFICATION

|                        |                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 0.005Lux/F1.5; B/W: 0.001Lux/F1.5                                                                                                                       |
| 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                                                                                                                 |
| Flip                   | Support                                                                                                                                                        |
| OIS                    | Support                                                                                                                                                        |
| Digital Zoom           | 16x                                                                                                                                                            |
| External Control       | TTL                                                                                                                                                            |
| Interface              | 4pin Ethernet port, 6pin Power & UART port, 5pin Audio port.<br>30pin LVDS                                                                                     |
| Communication Protocol | SONY VISCA, Pelco 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: 3.5W, Sports power: 7.1W                                                                                                                         |
| Dimensions(L*W*H)      | 145mm*82mm*96mm                                                                                                                                                |
| Weight                 | 930g                                                                                                                                                           |

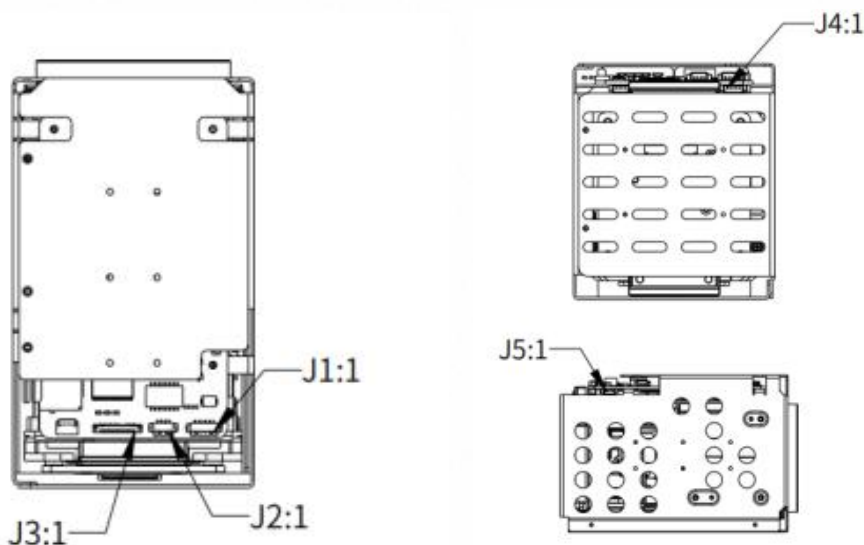
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### Dimension



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### Interface Definition



### Network Interface

| Type          | PIN Number | PIN Name  | Description          |
|---------------|------------|-----------|----------------------|
| J1_5pin Audio | 1          | AUDIO_OUT | Audio Out (Line Out) |

|                                |   |          |                                      |
|--------------------------------|---|----------|--------------------------------------|
| Interface                      | 2 | GND      | GND                                  |
|                                | 3 | AUDIO_IN | Audio In (Line In)                   |
|                                | 4 | GND      | GND                                  |
|                                | 5 | NC       | NC                                   |
| 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       |

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## LVDS Interface

| Port                                                                 | Number | PIN Name  | Description                                                                                            |
|----------------------------------------------------------------------|--------|-----------|--------------------------------------------------------------------------------------------------------|
| J3_30pin LVDS Interface<br>(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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