

# A Series

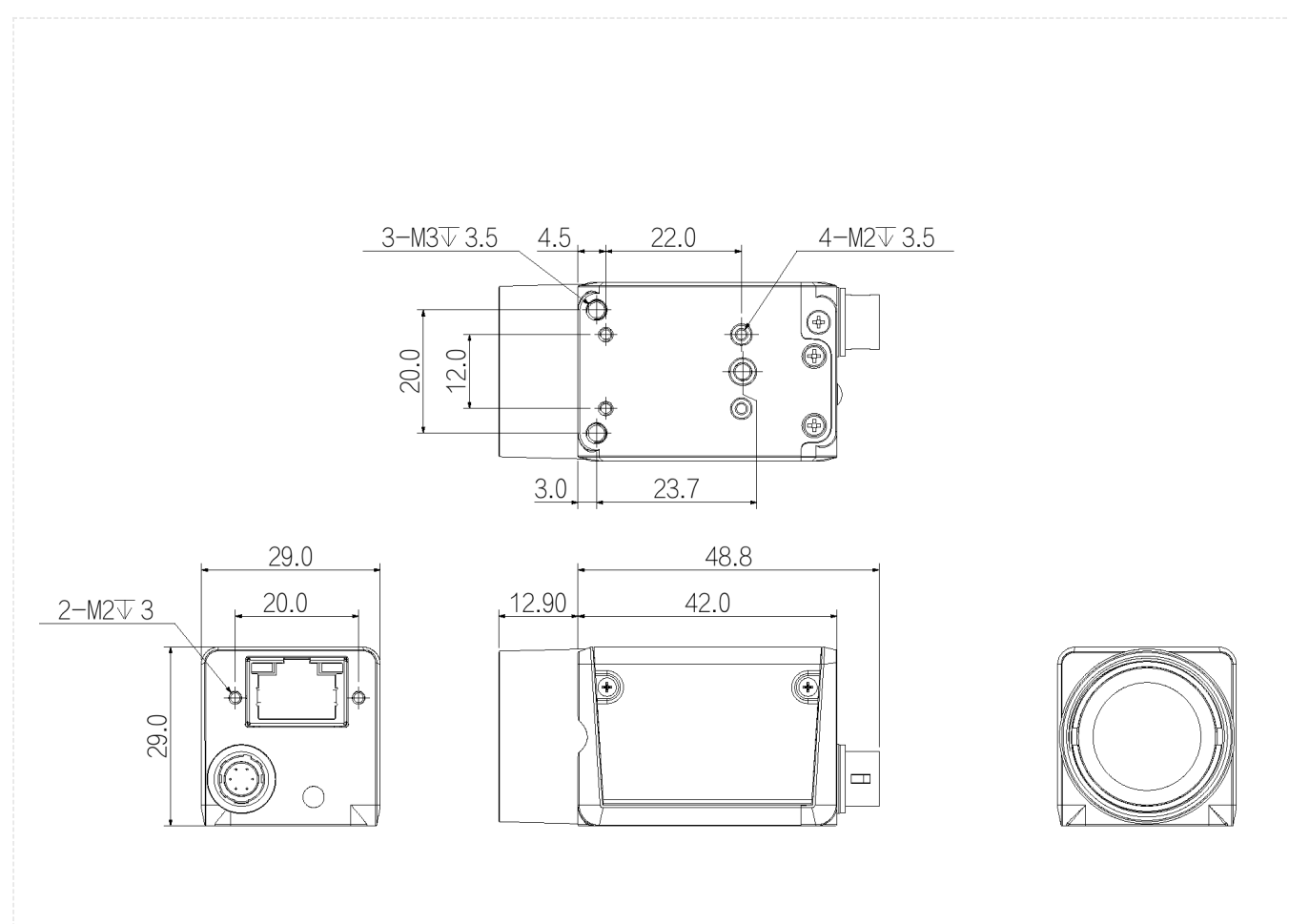
## A3131MG000E



### Features

- Gigabit Ethernet interface, providing 1Gbps bandwidth with a maximum transmission distance of 100m;
- 256MB on-board cache for data transmission or image resend;
- Support Software Trigger/Hardware Trigger/Free Run Mode;
- Support ISP functions including Sharpness/Denoising/Gamma/LUT/BlackLevel Correction/TargetBrightness/Contrast etc.;
- Color cameras support interpolation, white balance, color conversion matrix, chroma, saturation, etc.;
- Support multiple image data formats output/ROI/Mirror, etc.;
- Conform to GigE Vision V2.0 protocol and GenICam standard;
- Support PoE power supply, DC 9V~24V wide voltage power supply;
- Conform to CE, FCC, RoHS;

### Dimensions (mm)



Specification

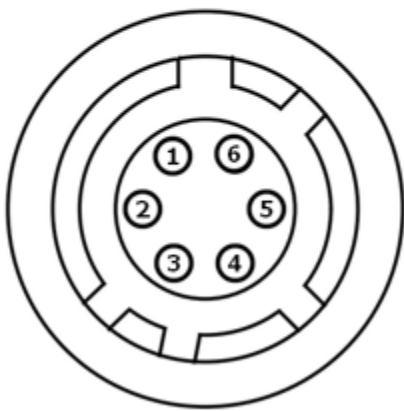
|             |                       |                                                                  |
|-------------|-----------------------|------------------------------------------------------------------|
| Model       |                       | A3131MG000E                                                      |
| Basic       | Sensor                | PYTHON 1300                                                      |
|             | Image Sensor          | 1/2"CMOS                                                         |
|             | Shutter               | Global                                                           |
|             | Resolution            | 1280 × 1024                                                      |
|             | Frame Rate            | 60 fps                                                           |
|             | Bit Depth             | 10                                                               |
|             | Mono/Color            | 黑白                                                               |
|             | Pixel Size            | 4.8 μm × 4.8 μm                                                  |
| Image       | Pixel                 | 1.3MP                                                            |
|             | S/N Ratio             | >38dB                                                            |
|             | Dynamic Range         | 60dB                                                             |
|             | Image Format          | Mono8/10/10Packed                                                |
|             | Binning               | Support                                                          |
|             | Decimation            | Support                                                          |
|             | ROI                   | Support                                                          |
|             | Gain                  | 1~32                                                             |
|             | Gamma                 | From 0 to 4 , support LUT                                        |
|             | Exposure Time         | 1μS~1S                                                           |
|             | Trigger Mode          | Software Trigger/Hardware Trigger/Free Run Mode                  |
|             | SPC                   | Support                                                          |
|             | FPN                   | Support                                                          |
| Performance | User Setting          | Support two sets of user-defined configurations                  |
|             | Image Buffer          | 256MB                                                            |
| Port        | Port                  | GigE, PoE                                                        |
|             | GPIO Interface        | 1x 6 pin Hirose: 1x Opto-isolated input, 1x Opto-isolated output |
|             | Lens Mount            | C-mount                                                          |
| Power       | Power Supply          | PoE/ DC 9V~24V power supply via Hirose interface                 |
|             | Power Consumption     | 12V≈3.4W                                                         |
| Structure   | Product Dimensions    | 29mm×29mm×42mm                                                   |
|             | Net Weight            | 88 g                                                             |
| Environment | Storage Temperature   | -30℃~+80℃                                                        |
|             | Operating Temperature | 0℃~+50℃                                                          |

Connector Pin-out

Definitions of camera 6-pin ports:

| Pin | Description | Features                                                            |
|-----|-------------|---------------------------------------------------------------------|
| 1   | -           | +9VDC to 24VDC power supply                                         |
| 2   | Line1       | Opto-isolated input                                                 |
| 3   | Line2       | GPIO (I/O can be configured for non-isolated software) <sup>1</sup> |
| 4   | Lineo       | Opto-isolated output                                                |
| 5   | -           | Opto-isolated signal ground (ISO_GND)                               |
| 6   | -           | Camera DC power ground and GPIO signal ground (GND)                 |

Definition of 6-pin power port



Spectrogram

