

5000 Series

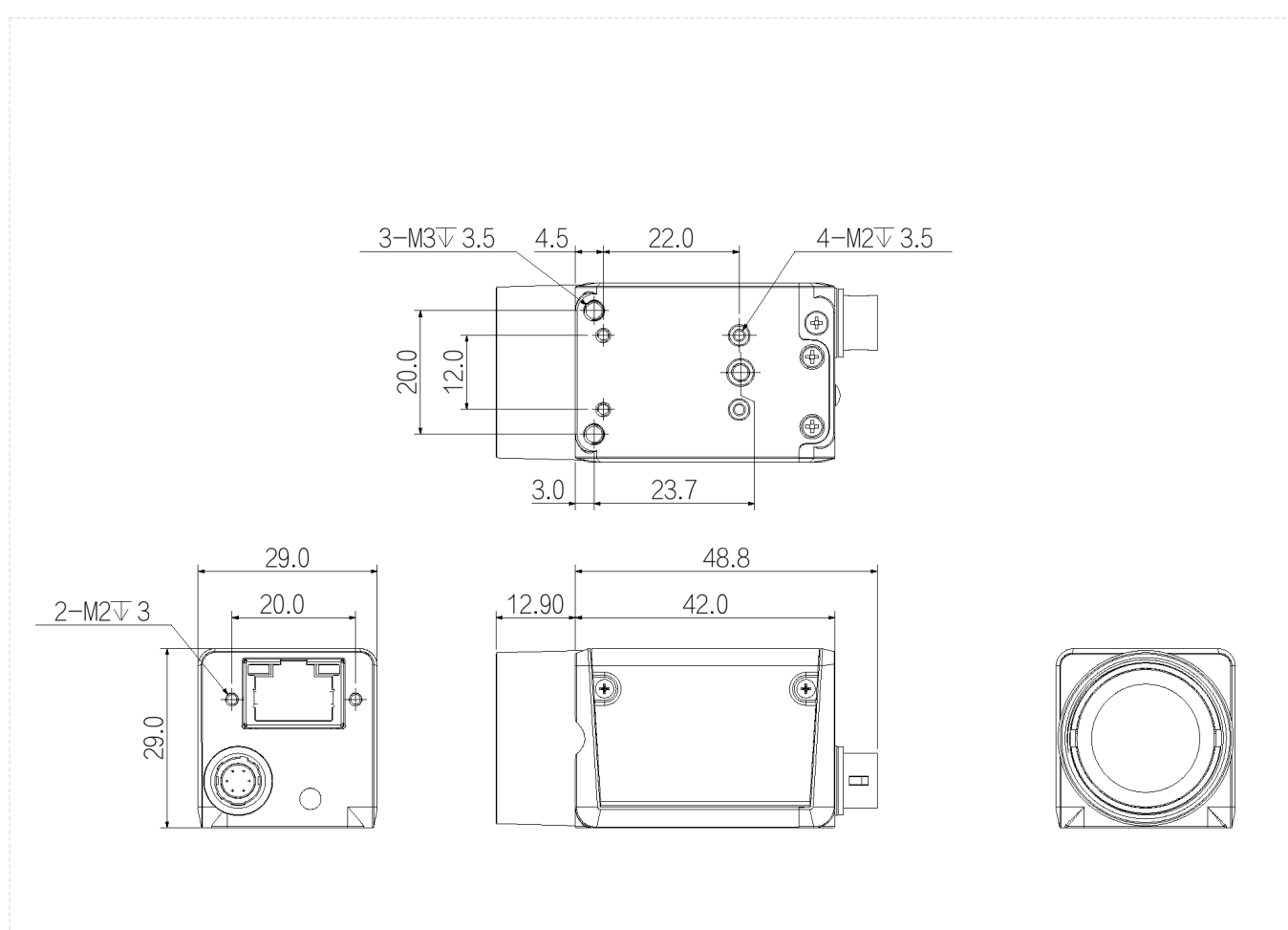
A5131CG75E



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 | | A5131CG75E |
| Basic | Sensor | PYTHON 1300 |
| | Image Sensor | 1/2"CMOS |
| | Shutter | Global |
| | Resolution | 1280 × 1024 |
| | Frame Rate | 90 fps |
| | Bit Depth | 10 |
| | Mono/Color | Color |
| | Pixel Size | 4.8 μm × 4.8 μm |
| Image | Pixel | 1.3MP |
| | S/N Ratio | >38dB |
| | WDR | 60dB |
| | Image Format | Mono8 , BayerRGB/10/10Packed , BayerGB8/10/10Packed , YUV422Packed |
| | Decimation | Support |
| | ROI | Support |
| | X Flip | Support |
| | Y Flip | Support |
| | Gain | 1~32 |
| | White Balance | Automatic white balance |
| | 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, 1 configurable input and 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 (not including lens mount and rear case connector) |
| | Net Weight | 88 g |

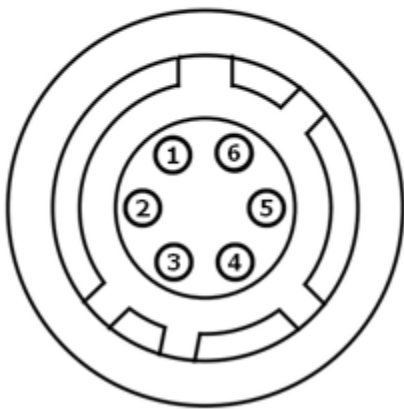
| | | |
|-------------|-----------------------|------------|
| Model | | A5131CG75E |
| Environment | Storage Temperature | - 30℃~+80℃ |
| | Operating Temperature | - 30℃~+50℃ |

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) ¹ |
| 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

