

# Large Area Scan Series

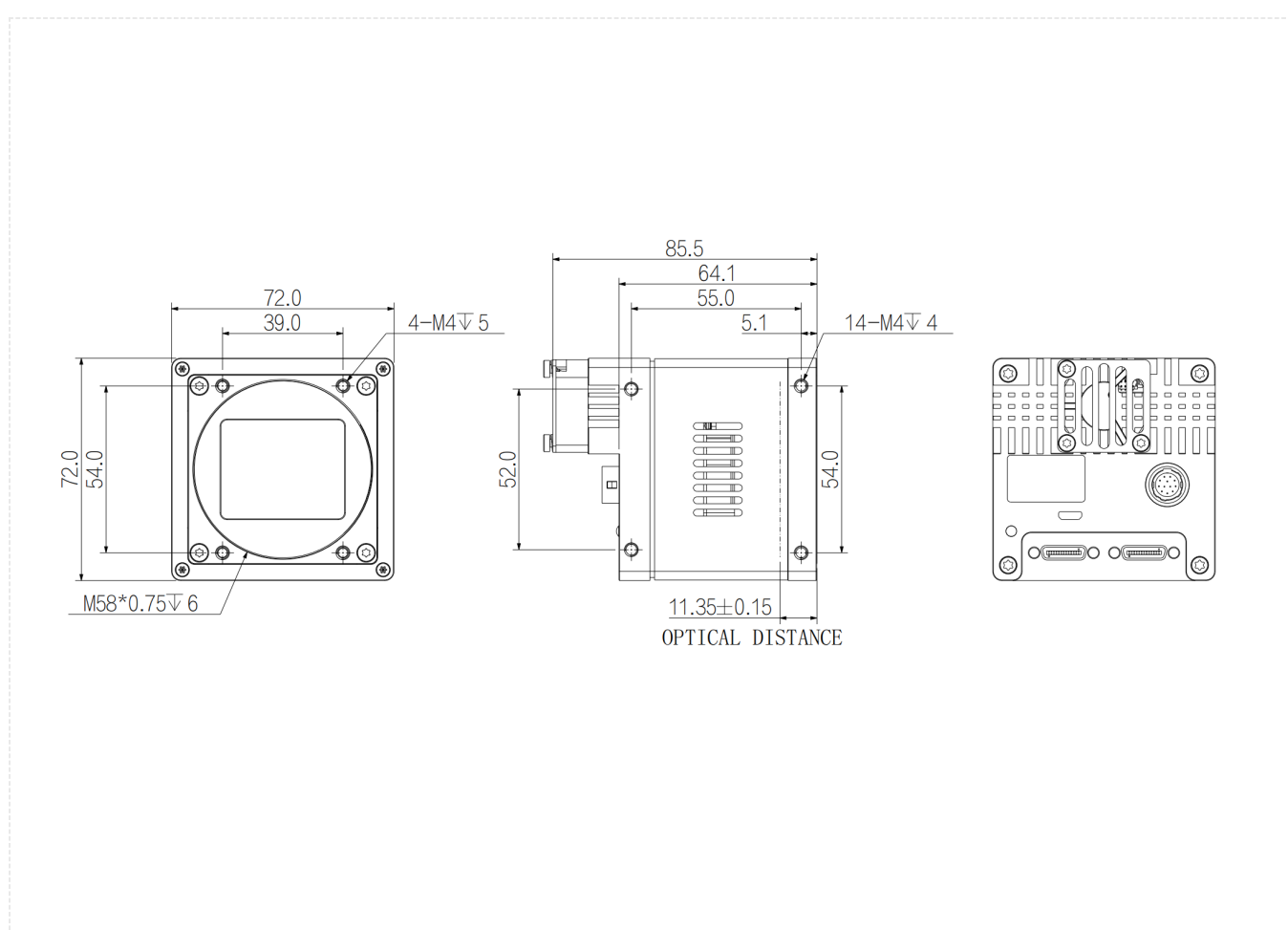
## AX7C10MK250E



### Features

- Sony CMOS sensor, global shutter, APS-C image size;
- Patented flatness adjustment scheme to prevent partial defocusing;
- Excellent heat dissipation design, precise temperature control and constant temperature maintenance;
- Support Software Trigger/Hardware Trigger/Free Run Model, support trigger via CameraLink acquisition board;
- Support user-defined ROI, horizontal mirror and vertical mirror;
- Support ISP functions including Auto Exposure/Auto Gain/Gamma Correction/LUT etc.;
- Mono cameras support contrast adjustment;
- Support for FFC function to provide more uniform picture quality;
- Support mutil-frame average function, up to 16 frames averaging;
- Support fan speed adaptive function for setting the target temperature of the sensor;

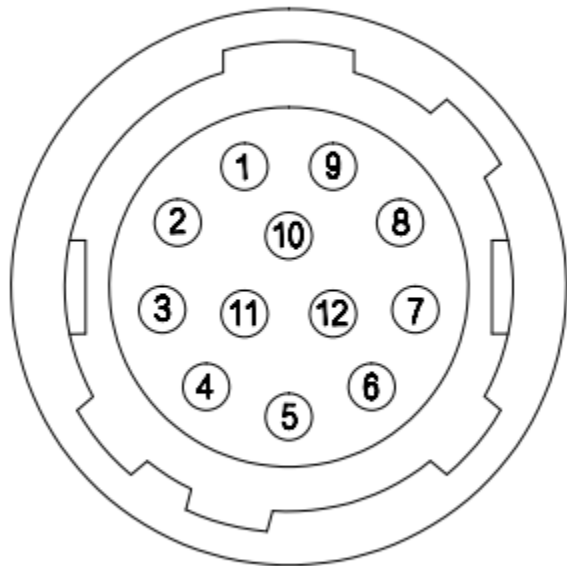
### Dimensions (mm)



 Specification

|             |                       |                                                             |
|-------------|-----------------------|-------------------------------------------------------------|
| Model       |                       | AX7C10MK250E                                                |
| Basic       | Sensor                | IMX342                                                      |
|             | Image Sensor          | 22.3 mm x 16.7 mm CMOS                                      |
|             | Shutter               | Global                                                      |
|             | Resolution            | 6240 × 4848                                                 |
|             | Frame Rate            | 24.8 fps                                                    |
|             | Bit Depth             | 10 bit                                                      |
|             | Mono/Color            | Mono                                                        |
|             | Pixel Size            | 3.45 μm × 3.45 μm                                           |
| Image       | Pixel                 | 31 MP                                                       |
|             | S/N Ratio             | 40 dB                                                       |
|             | Dynamic Range         | 73 dB                                                       |
|             | Image Format          | Mono8/10/12                                                 |
|             | ROI                   | Support                                                     |
|             | X Flip                | Support                                                     |
|             | Y Flip                | Support                                                     |
|             | Gain                  | 1 ~ 32                                                      |
|             | Gamma                 | 0 ~ 4 , Support LUT                                         |
|             | Exposure Time         | 3 μs ~ 15 s                                                 |
|             | Trigger Mode          | Software Trigger/Hardware Trigger/Free Run Mode             |
|             | SPC                   | Support                                                     |
| Performance | User Setting          | Support two sets of user-defined configurations             |
| Port        | Port                  | CameraLink                                                  |
|             | GPIO Interface        | 3x Opto-isolated input, 3x Opto-isolated output;1x RS232    |
|             | Lens Mount            | M58 x 0.75                                                  |
| Power       | Power Supply          | DC 24V power supply via 12 Hirose interface                 |
|             | Power Consumption     | 24 V ≈ 16.8 W                                               |
| Structure   | Product Dimensions    | 72 mm x 72 mm x 64.1 mm (Non including rear case connector) |
|             | Net Weight            | 500 g                                                       |
| Environment | Storage Temperature   | -30℃ ~ 80℃                                                  |
|             | Operating Temperature | -30℃ ~ 50℃                                                  |

Connector Pin-out



| Pin | Signal      | Description              |
|-----|-------------|--------------------------|
| 1   | GND         | Power and signal GND     |
| 2   | Power       | Power supply             |
| 3   | RXD RS232   | Serial receive           |
| 4   | TXD RS232   | Serial send              |
| 5   | Line3       | Opto-isolated input      |
| 6   | Line4       | Opto-isolated input      |
| 7   | Line5       | Opto-isolated input      |
| 8   | OPT_IN_GND  | Opto-isolated input GND  |
| 9   | Line0       | Opto-isolated output     |
| 10  | Line1       | Opto-isolated output     |
| 11  | Line2       | Opto-isolated output     |
| 12  | OPT_OUT_GND | Opto-isolated output GND |

Spectrogram

