

## ▲ A7500M/CK200E

- 6.8Gbps (maximum) bandwidth CameraLink interface
- 512MB on-board cache for data retransmission
- Support multiple image data formats
- Conform to CE, FCC, RoHS certifications
- Software trigger/Hardware trigger/Free run mode
- Conforms to CameraLink V2.0 protocol and GenICam standard



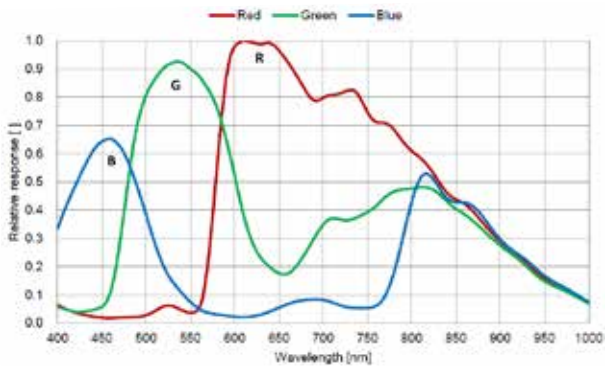
### Specification

| Model       | Sensor | Sensor type | Shutter | Resolution | Frame rate (fps) | Bit depth | Interface  | Mono/Color | Pixel size (μm) | Sensor size |
|-------------|--------|-------------|---------|------------|------------------|-----------|------------|------------|-----------------|-------------|
| A7500MK200E | IMX250 | CMOS        | Global  | 2448x2048  | 160              | 8         | CameraLink | Mono       | 3.45 x 3.45     | 2/3"        |
| A7500CK200E | IMX250 | CMOS        | Global  | 2448x2048  | 160              | 8         | CameraLink | Color      | 3.45 x 3.45     | 2/3"        |

| Model             | A7500MK200E  | A7500CK200E        |
|-------------------|--|--------------------|
| Effective Pixels  | 5.0MP  |                    |
| SNR               | >38dB  |                    |
| Dynamic Range     | 70dB   |                    |
| GPIO              | CameraLink interface: camera control and image transmission; support base/medium/Full/Deca mode<br>6 pin Hirose: 1 Opto-isolated input, 1 Opto-isolated output, 1 configurable input/output without opto isolation |                    |
| Image Format      | Mono8  | BayerRG8, BayerGB8 |
| Binning           | Support  | --                 |
| Gain              | X1~X32   |                    |
| Gamma             | Range from 0 to 4, support LUT   |                    |
| Exposure Time     | 8μs~1s   |                    |
| Trigger Mode      | Software trigger/Hardware trigger/Free run mode  |                    |
| Image Buffer      | --   |                    |
| User Setting      | Support two sets of user-defined configurations  |                    |
| Dimensions        | 29mmx44mmx57.5mm( not including lens mount and rear case connector)  |                    |
| Weight            | 100g   |                    |
| Power Supply      | Power supply via CameraLink connector /DC power supply by Hirose connector, with voltage range from 6V to 26V  |                    |
| Power Consumption | 12V~3W   |                    |
| Lens Mount        | C  |                    |
| Temperature       | Storage temperature:-30° C~ + 80° C; Operation temperature:-30° C~+50° C   |                    |

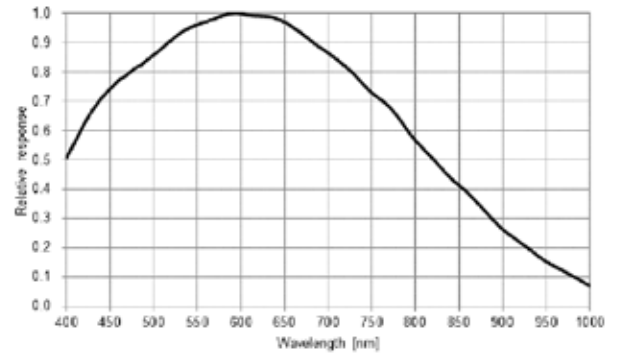
## Spectrogram

**A7500CK200E**



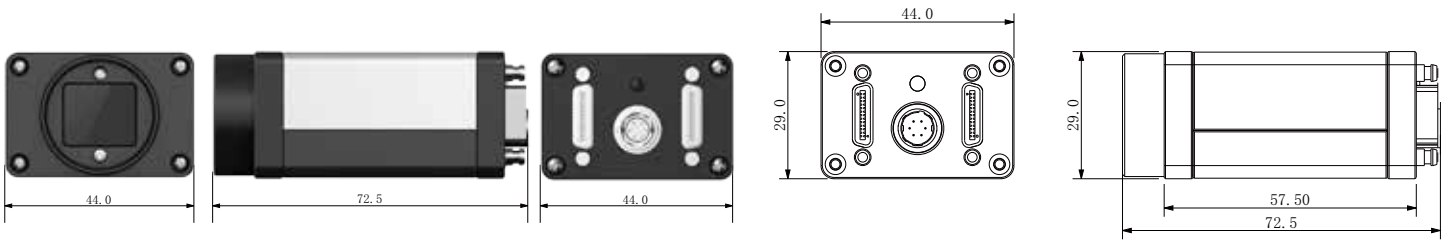
Quantum Efficiency Curve for Mono and Color Sensor

**A7500MK200E**

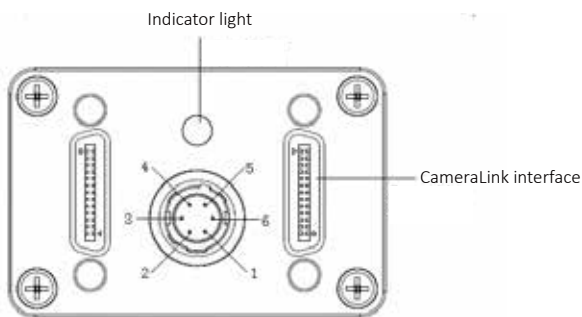


Quantum Efficiency Curve for Mono Sensor

## Dimensions



## IO Interface Instruction



| Pin | Signal | Description                  |
|-----|--------|------------------------------|
| 1   | Power  | DC 6V-26V input              |
| 2   | Line1  | Opto-isolated input          |
| 3   | Line2  | Configurable IO input/output |
| 4   | Line0  | Opto-isolated output         |
| 5   | IO GND | Opto-isolated ground         |
| 6   | GND    | Ground                       |