

## ▲ AX7B96MK060/1E

- CCD, Global shutter, 35mm optical size
- CameraLink interface, support Base/Medium/Full/Deca mode
- Pixel defect correction to support user-defined defect data import
- Conform to cameraink protocol and GenICam standard
- Support PoCL / DC 14-24V power supply
- Conform to CE, FCC, UL and RoHS certifications



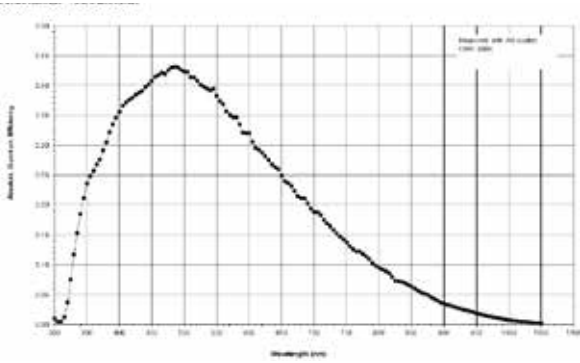
### Specification

| Model        | Sensor   | Sensor type | Shutter | Resolution  | Frame rate ( fps ) | Bit depth | Interface  | Mono/ Color | Pixel size ( μ m ) | Sensor size |
|--------------|----------|-------------|---------|-------------|--------------------|-----------|------------|-------------|--------------------|-------------|
| AX7B96MK060E | KAI29050 | CCD         | Global  | 6576 x 4384 | 4                  | 14        | Cameralink | Mono        | 5.5 x 5.5          | 35mm        |
| AX7B96MK061E | KAI29050 | CCD         | Global  | 6576 x 4384 | 4                  | 14        | Cameralink | Mono        | 5.5 x 5.5          | 35mm        |

| Model                 | AX7B96MK060E   | AX7B96MK061E |
|-----------------------|--|--------------|
| Effective Pixels      | 29MP   |              |
| SNR                   | >41dB  |              |
| Dynamic Range         | 60dB   |              |
| GPIO                  | 12 pin Hirose: 3 configurable input/output without opto isolation; 1 RS232 serial port |              |
| Image Format          | Mono8/10/10Packed  |              |
| Binning               | --   |              |
| Decimation            | --   |              |
| ROI                   | support  |              |
| Gain                  | x1~x16   |              |
| Gamma                 | Range from 0 to 4, support LUT   |              |
| Exposure Time         | 30μS~1S  |              |
| Flat field correction | --   |              |
| Defective pixel       | Support  |              |
| Trigger Mode          | Software trigger/Hardware trigger/Free run mode  |              |
| Dimensions            | 72mmx72mmx54mm( not including lens mount and rear case connector)                      |              |
| Weight                | 390g   |              |
| Power Supply          | PoCL/ DC 14V~24V via Hirose connector  |              |
| Power Consumption     | 24V≈8W   |              |
| Lens Mount            | F  |              |
| Temperature           | Storage temperature:-30° C~ + 80° C; Operation temperature:-30° C~+50° C               |              |

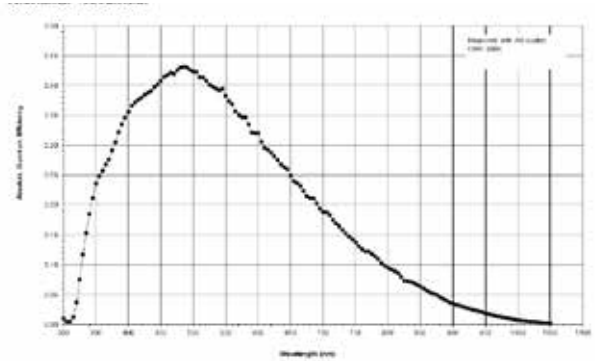
## Spectrogram

AX7B96MK060E



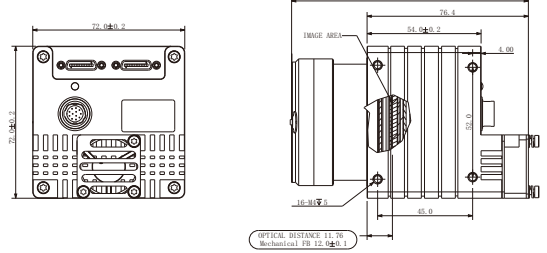
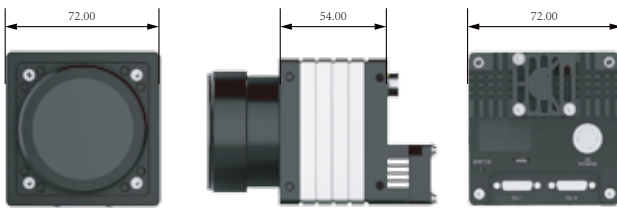
Quantum Efficiency Curve for Mono and Color Sensor

AX7B96MK061E

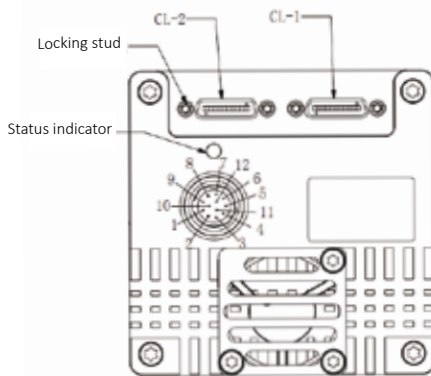


Quantum Efficiency Curve for Mono and Color Sensor

## Dimensions



## IO Interface Instruction



| Pin | Signal      | Description                 |
|-----|-------------|-----------------------------|
| 1   | GND         | Camera Power Ground         |
| 2   | Power       | Camera power                |
| 3   | RXD RS232   | Serial port receiver        |
| 4   | TXD RS232   | Serial port transmitter     |
| 5   | Line3       | Opto-isolated input         |
| 6   | Line4       | Opto-isolated input         |
| 7   | Line5       | Opto-isolated input         |
| 8   | OPT_IN_GND  | Opto-isolated input ground  |
| 9   | Line0       | Opto-isolated output        |
| 10  | Line1       | Opto-isolated output        |
| 11  | Line2       | Opto-isolated output        |
| 12  | OPT_OUT_GND | Opto-isolated output ground |