



# Prometheus

## Line Scan Camera

### PR16KCL-17KC2

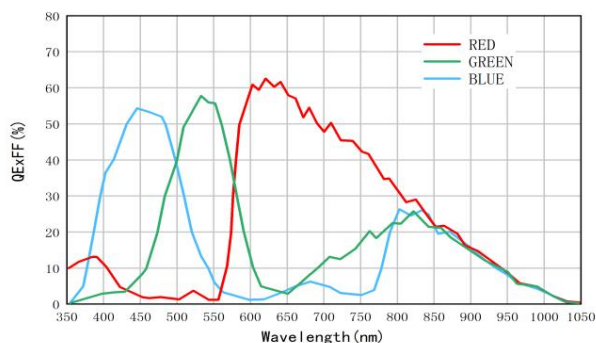
#### Features

- ◎ Global Shutter CMOS
- ◎ 16384 \* 6pixels, 5 $\mu$ m \* 5 $\mu$ m
- ◎ Up to 17kHz Line Rate
- ◎ High sensitivity and low noise
- ◎ 8/10 bit output
- ◎ Camera Link interface
- ◎ Rich exposure control modes (external trigger, free-run)
- ◎ Binning / LUT / FFC / Automatic White Balance
- ◎ Spatial Correction / Parallax Correction
- ◎ Scanning direction configurable
- ◎ Real-time temperature monitoring



#### Applications

- ◎ Printed circuit board inspection
- ◎ Flat panel display inspection
- ◎ Lithium battery / Solar panel inspection
- ◎ Semiconductor inspection
- ◎ Food and medicine inspection



**Spectral response**

## Specifications

|                       |                                                |
|-----------------------|------------------------------------------------|
| <b>Model</b>          | <b>PR16KCL-17KC2</b>                           |
| Image Sensor          | Global Shutter CMOS                            |
| Image Mode            | Color                                          |
| Optical Size          | 81.92 mm                                       |
| Resolution            | 16384 * 6                                      |
| Pixel Size            | 5 $\mu$ m * 5 $\mu$ m                          |
| Max Line Rate         | 17.0kHz@8bit, 10.2kHz@10bit                    |
| Bit Depth             | 8/10bit                                        |
| Dynamic Range         | $\geq 64.8$ dB                                 |
| Data Rate             | 835 MB/s                                       |
| Trigger Mode          | Free-Run / External Pulse / External PWM       |
| Exposure Control      | External PWM, Timed                            |
| Exposure Time         | 3 $\mu$ s - 63997 $\mu$ s(Step:0.0125 $\mu$ s) |
| Analog Gain           | 1/2x                                           |
| Digital Gain          | 0.01-8.00x                                     |
| Lens Interface        | M90 * 1                                        |
| Data Interface        | Camera Link                                    |
| Power Interface       | Hirose HR10A-7R-6PB(Male)                      |
| Power Supply          | DC12-24V( $\pm 10\%$ ) 2A                      |
| Power Dissipation     | 12.0 W                                         |
| Dimensions            | 99.0mm(W) x 99.0mm(H) x 73.0mm(D)              |
| Operating Temperature | 0-55 $^{\circ}$ C                              |
| Storage Temperature   | -20-75 $^{\circ}$ C                            |

## Mechanical Dimensions(mm)

