



Prometheus

Line Scan Camera

PR16KCXP10-40KC

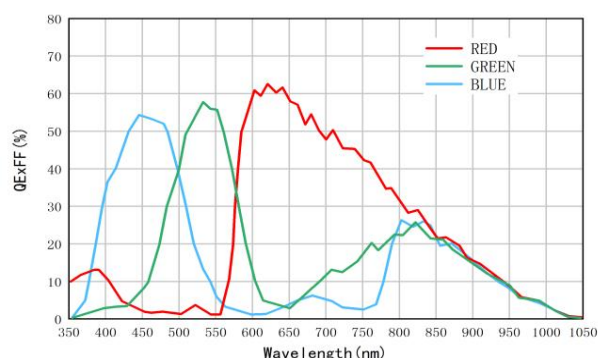
Features

- ◎ Global Shutter CMOS
- ◎ 16384 * 6pixels, 5 μ m * 5 μ m
- ◎ Up to 40kHz Line Rate
- ◎ High sensitivity and low noise
- ◎ RGB/BGR@8/10bit
- ◎ CoaXPress10 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
- ◎ Semiconductor inspection
- ◎ Print and package inspection
- ◎ Food and medicine inspection
- ◎ Plate and web inspection



Spectral response

Specifications

Model	PR16KCXP10-40KC
Image Sensor	Global Shutter CMOS
Image Mode	Color
Optical Size	81.92 mm
Resolution	16384 * 6
Pixel Size	5μm * 5μm
Max Line Rate	39.8kHz@8bit, 31.9kHz@10bit
Bit Depth	RGB/BGR@8/10bit
Dynamic Range	≥64.8 dB
Data Rate	1900 MB/s
Trigger Mode	Line Trigger / Frame Trigger
Exposure Control	External PWM, Timed
Exposure Time	2.125μs - 63997μs(Step:0.0125μs)
Analog Gain	1/2/4/8x
Digital Gain	0.1-8.0x
Lens Interface	M90 * 1
Data Interface	CoaXPress10
Power Interface	Hirose HR10A-7R-6PB(Male)
Power Supply	DC12-24V(±10%) 2A
Power Dissipation	16.0 W
Dimensions	99.0mm(W) x 99.0mm(H) x 73.0mm(D)
Operating Temperature	0-55°C
Storage Temperature	-20-75°C

Mechanical Dimensions(mm)

