



Prometheus

Line Scan Camera

PR16KCL-51KT

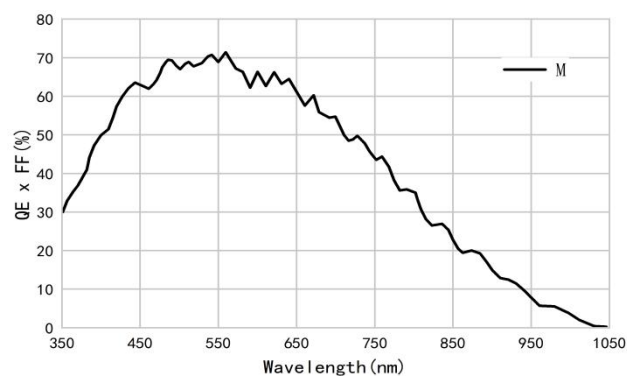
Features

- ◎ Global Shutter CMOS
- ◎ 16384 * 2pixels, 5 μ m * 5 μ m
- ◎ Up to 51kHz 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
- ◎ 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

Model	PR16KCL-51KT
Image Sensor	Global Shutter CMOS
Image Mode	Mono
Optical Size	81.92 mm
Resolution	16384 * 2
Pixel Size	5 μ m * 5 μ m
Max Line Rate	51.0kHz@8bit,40.8kHz@10bit
Bit Depth	8/10bit
Dynamic Range	≥ 64.8 dB
Data Rate	830 MB/s
Trigger Mode	Free-Run / External Pulse / External PWM
Exposure Control	External PWM, Timed
Exposure Time	3 μ s - 63997 μ s(Step:0.0125 μ s)
Analog Gain	1/2/4x
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)

