



TEC-PLASMA

Line Scan Camera

TPL1KCL-40KS

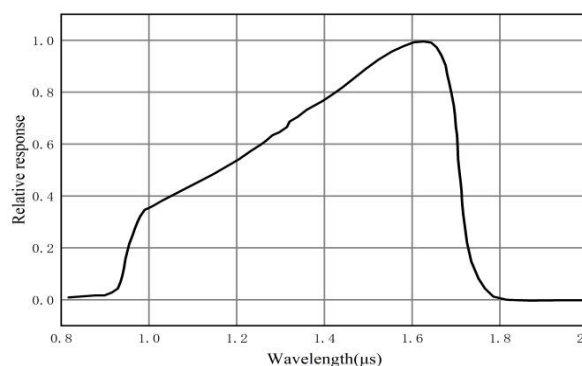
Features

- ◎ Global Shutter InGaAs
- ◎ 1024 * 1 pixels, 12.5 μ m * 12.5 μ m
- ◎ Up to 40 kHz Line Rate
- ◎ High sensitivity and low noise
- ◎ 8/10/12/14bit output
- ◎ FFC / LUT
- ◎ Camera Link interface
- ◎ Analog gain / Digital gain / Offset control
- ◎ Power supply: DC12-24V($\pm$ 10%)



Applications

- ◎ Photovoltaic hidden crack detection
- ◎ Circuit board detection
- ◎ Fruit and vegetable food, sorting and detection
- ◎ Biological imaging



Spectral response

Specifications

Model	TPL1KCL-40KS
Sensor	Global Shutter InGaAs
Wavelength	950-1700 nm
Image Mode	Mono
Optical Size	12.8 mm
Resolution	1024 * 1
Pixel Size	12.5μm * 12.5μm
Max Line Rate	40kHz
Bit Depth	8/10/12/14 bit
Dynamic Range	≥65.2dB
Data Rate	71 MB/s
Trigger Mode	Free-Run / External Pulse
Exposure Control	Pulse width / Program
Exposure Time	0.1μs-1s(Step:0.1μs)
Analog Gain	1/5/25/50x
Digital Gain	0.01-8.00x
Data Interface	Camera Link
Lens Interface	M42 * 1
Power Interface	Hirose HR10A-7R-6PB(Male)
Power Supply	DC12-24V(±10%) 2.0A
Power Dissipation	TEC On: 13.7 W ; TEC Off: 6.1W
Cooling Mode	Electronic refrigeration(20°C below environment temperature) / Fan refrigeration
Dimensions	60.0mm(W) x 60.0mm(H) x 75.76mm(D)
Operating Temperature	0-55°C
Storage Temperature	-20-75°C

Mechanical Dimensions(mm)

