



TEC-PLASMA

Line Scan Camera

TPL1KGV-30KS

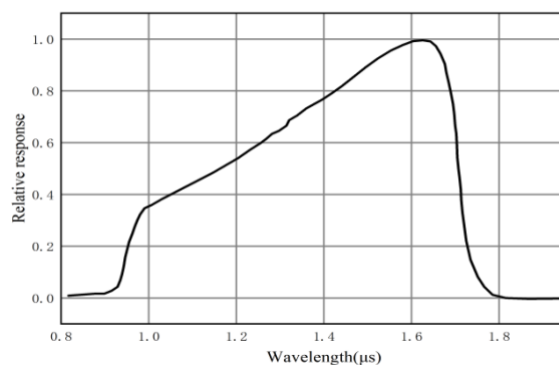
Features

- ◎ Global Shutter InGaAs
- ◎ 1024 * 1 pixels, 12.5 μ m * 12.5 μ m
- ◎ Up to 30 kHz Line Rate
- ◎ High sensitivity and low noise
- ◎ 8/10/10p/12/12p/14bit output
- ◎ FFC / LUT
- ◎ Analog gain / Digital gain / Offset control
- ◎ Temperature monitor
- ◎ 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	TPL1KGV-30KS
Sensor	Global Shutter InGaAs
Photosensitive Band	950-1700 nm
Image Mode	Mono
Optical Size	12.8 mm
Resolution	1024 * 1
Pixel Size	12.5μm * 12.5μm
Max Line Rate	29.4kHz
Bit Depth	8/10/10p/12/12p/14bit
Dynamic Range	≥65dB
Data Rate	53 MB/s
Trigger Mode	Free-Run / Line trigger control / Frame trigger control
Exposure Control	Pulse Width Control / Timed
Exposure Time	0.1us~19982us (step: 0.1us)
Analog Gain	1/2/5/11/17/25/50/100x
Digital Gain	0.1-8.0x
Data Interface	GigE Vision
Lens Mount	M42 * 1
Power Interface	HD15(Female)
Power Supply	DC12-24V(±10%) 1.0A
Power Dissipation	TEC On: 7.0 W ; TEC Off: 4.0W
Cooling Mode	Electronic refrigeration (22°C below environment temperature) / Fan refrigeration
Dimensions	60.0mm(W) x 60.0mm(H) x 73.0mm(D)
Operating Temperature	0-55°C
Storage Temperature	-20-75°C

Mechanical Dimensions(mm)

