



TEC-PLASMA

Line Scan Camera

TPL512CL-30KS2

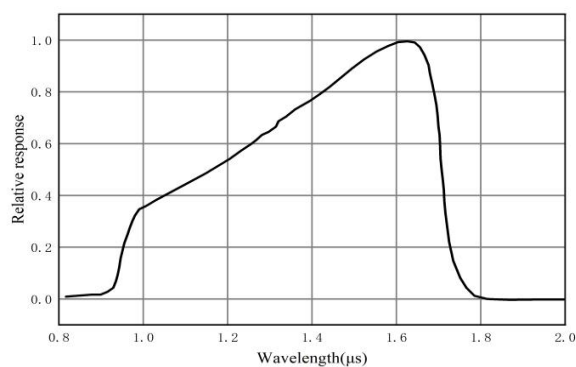
Features

- ◎ Global Shutter InGaAs
- ◎ 512 * 2 pixels, 25 μ m * 25 μ m
- ◎ Up to 29.4 kHz Line Rate
- ◎ High sensitivity and low noise
- ◎ 8/10/12/14 bit output
- ◎ FFC / LUT/ ROI
- ◎ TEC Cooling
- ◎ Analog gain / Digital gain / Offset control
- ◎ User-configurable scan direction
- ◎ Electronic refrigeration (approximately 25°C below ambient temperature)



Applications

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



Spectral response

Specifications

Model	TPL512CL-30KS2
Sensor	Global Shutter InGaAs
Photosensitive Band	950-1700 nm
Image Mode	Mono
Optical Size	12.8 mm
Resolution	512 * 2
Pixel Size	25μm * 25μm
Max Line Rate	29.4kHz
Bit Depth	8/10/12/14 bit
Dynamic Range	≥59.6 dB
Data Rate	30 MB/s
Trigger Mode	Free-Run / External 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	0.01-8.00x
Data Interface	Camera Link
Lens Mount	M42
Power Interface	HD15 (Female)
Power Supply	DC12-24V (±10%) 1.0A
Power Dissipation	TEC off: 3.1W TEC on: 4.1W
Cooling Mode	Electronic refrigeration (25℃ below environment temperature) / Fan refrigeration
Dimensions	60.0mm(W) x 60.0mm(H) x 73.2mm(D)
Operating Temperature	0-55℃
Storage Temperature	-20-75℃

Mechanical Dimensions(mm)

