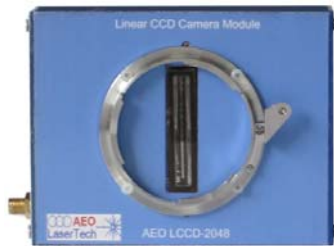


AEO LCC2048 Linear CCD Camera

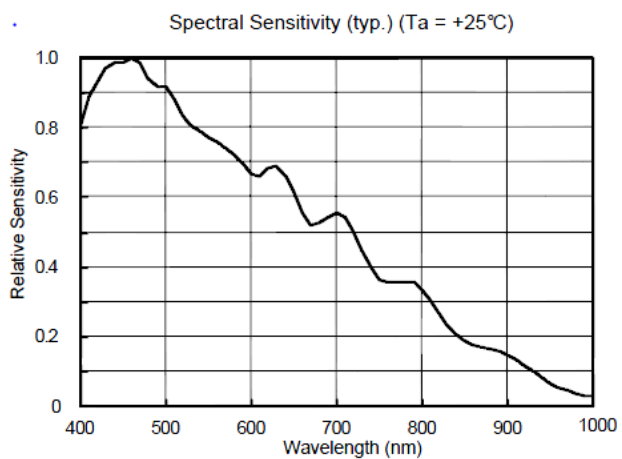
OEM Module



Key performance Features	Application
<ul style="list-style-type: none"> • Excellent data acquisition stability • High-sensitivity linear CCD sensor • Array with 2048 active pixels • (14 x 200 μm each) wide dynamic range • High Speed USB 2.0 (480 Mbit/s) or 12Mbits full speed. • External trigger capability 	<ul style="list-style-type: none"> ❖ science, research, education as well as OEM applications ❖ Lasers, optics, photonics, spectroscopy ❖ Measurements: light, fluorescence, ❖ beam profile, single shot auto correlators ❖ Imaging (1-D or 2-D by parallel moving), data acquisition, machine vision, monitoring, process control, industrial OEM applications

Specifications		
Optical parameters	Typical	Note
Wavelength spectrum range:	350 nm - 1100 nm without UV 200 nm - 1100 nm with UV	The UV option must be ordered explicitly.
Optical detector:	Silicon Linear CCD array	
Electrical Parameters	Typical	Note
Integration Time	5 ~ 65535 ms	
Signal-to-noise ratio:	300:1 (full signal)	The integration time is controllable in an extremely widely range
A/D resolution:	16 bits	
Dark noise:	50 RMS counts	
Dynamic range:	2×10^8 (system); 1300:1 for a single shot	
Sensitivity ($V/(lx*s)$) (typ.)	165	
Corrected Linearity	> 99.8%	
Trigger Signal	TTL 5V/3.3V	
Trigger Frequency, Scan Rate	Max 500 Hz, 500 Scans/s ^d	
Interfaces to PC USB	High Speed USB 2.0 (480 Mbit/s) Option : USB 2.0, Full Speed, 12 Mbps	option must be ordered explicitly

Mechanical Parameters	Typical	Note
Dimensions (L x W x H) :	100 x 78 x 26 mm	
Weight	150 g	Metal Aluminum
Operation temperature	-10 °C ~ +50 °C	
Storage temperature:	-10 °C ~ +70 °C	



CCD Optical Spectrum