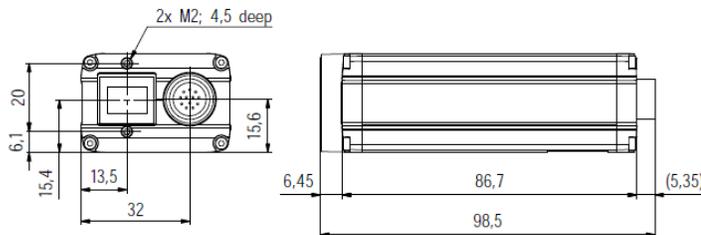




Pressure Sensitive Paint Camera

PSP-CCD-C, PSP-CCD-M

The PSP-CCD is a 2-megapixel CCD camera used for pressure and temperature sensitive paint data acquisition. The camera is small and lightweight allowing for an array of cameras to be mounted in small areas. Communication with the PSP-CCD is via Gigabit Ethernet. The camera comes in two options, one a color sensor and one a monochrome sensor. The color camera is used in Binary PSP and particle shadow velocimetry applications whereas the monochrome version is used in monochrome PSP or surface stress sensitive film applications.



FEATURES

1.9 megapixel CCD sensor

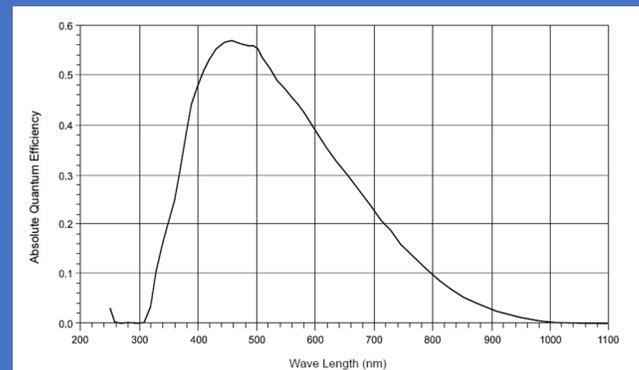
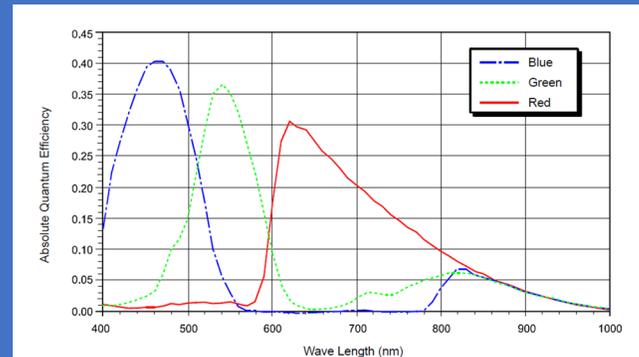
GigE Connectivity

8- or 12-bit output format

External TTL input and strobe output

Easy to use software interface tailored to PSP and TSP

Lens control available via ProAcquire software and LC-2 controller (sold separately)



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SPECIFICATIONS

Sensor

Resolution	1600 x 1200 (1.9 megapixel)
Type	KAI-2020 CCD
Format	11.89 mm (H) x 8.94 mm (V), 14.8 mm diagonal (1" optical format)
Pixel Size	7.4 μ m
Frame Rate	35 fps (40 MHz) Standard clock 44 fps (50 MHz) Overclocked
Electron Full Well Capacity	20,000 e ⁻
Readout Noise	20 electrons
Dynamic Range	60dB
Output Format(s)	8, 12
Binning H/L	1x, 2x, 3x, 4x, 8x
Maximum Exposure	10 seconds
Minimum Exposure	50 μ s
Shutter	Global

Trigger

Inputs	External (TTL via IN1/IN2), software, computer
Options	Level, edge, pulse width, internal exposure
Modes	Free-run, standard, double, frame accumulation
Strobe Output	Programmable position and duration

Communication

Interface	GigE
On Board Memory	None
Software Interface	ProAcquire
Lens Control	Available in ProAcquire (LC-2 integration)

Environmental

Vibration/Shock	DIN EN 60068-2-64
Operating Temperature Range	0°C to 50°C
Humidity	20% to 80% non-condensing

Size & Weight

Size	98.5 mm (L) x 29 mm (H), 44 mm (L)
Weight	220 grams
Lens Mount	c-mount

Power Requirements

External Power Input	12-24 VDC
Power Consumption	4.9 W @ 12 VDC

Export

ECCN	EAR99
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