



- ▶ 1 Megapixel EMCCD
- ▶ 13µm Pixel Size
- ▶ 25 Frames Per Second
- ▶ 18.8mm Field of View
- ▶ 95% Quantum Efficiency

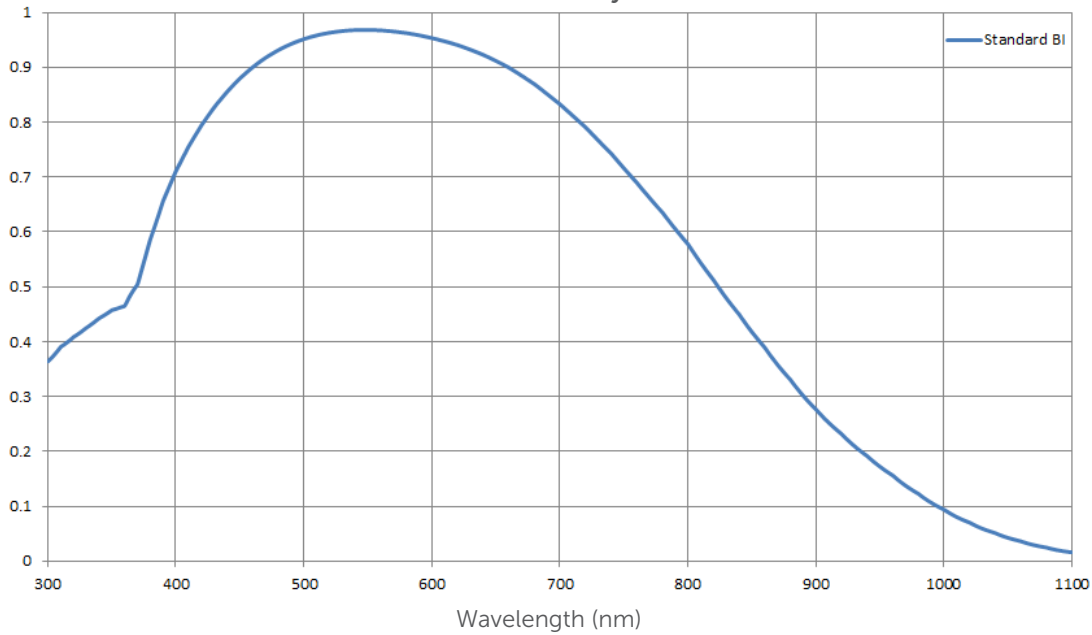
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Specifications	Camera Performance
Sensor	Teledyne e2V CCD201 EMCCD Sensor
Active Array Size	1024 x 1024 (1 Megapixel)
Pixel Area	13µm x 13µm (169µm²)
Sensor Area	13.3mm x 13.3mm 18.8mm diagonal
Peak QE%	95%
Full-Well Capacity	80,000e- (Single Pixel) 500,000e- (EM Output Amplifier)
Bit-Depth	16-bit
Cooling Options	Air Cooled Liquid Cooled
Linearity	>99%
Binning	2-32x Horizontal Binning 1-1024x Vertical Binning
Vertical Shift Rate	700 nsec/row (Variable)
Clock Induced Charge	0.002e-/pixel/frame
EM Gain Range	1-100X linearized

Camera Modes		
Specifications	Fast Mode (30MHz)	Slow Mode (10MHz)
Frame Rate (Full Frame)	25 fps	8 fps
Read Noise	130e- 0.26e- @ 500x EM Gain	40e- 0.26e- @ 150x EM Gain
Cooling	Cooling: -55°C @ 20°C Ambient	
Dark Current	Dark Current: 0.002e/p/s @ -55°C	

Specification	Camera Interface
Digital Interface	Gigabyte Ethernet (GigE)
Lens Interface	C-Mount
Mounting Points	2 x ¼"-20 mounting points per side
Trigger Modes	External Trigger, Bulb Mode, Single Trigger
Trigger Signals	Exposure, Read Out, Trigger Ready, Trigger In
optiCAL	On-camera EM Gain linear calibration
Built in Shutter	Acquire reference dark frames and protect sensor from dust
Vacuum Guarantee	Lifetime vacuum guarantee, built using all-metal, hermetic vacuum design.

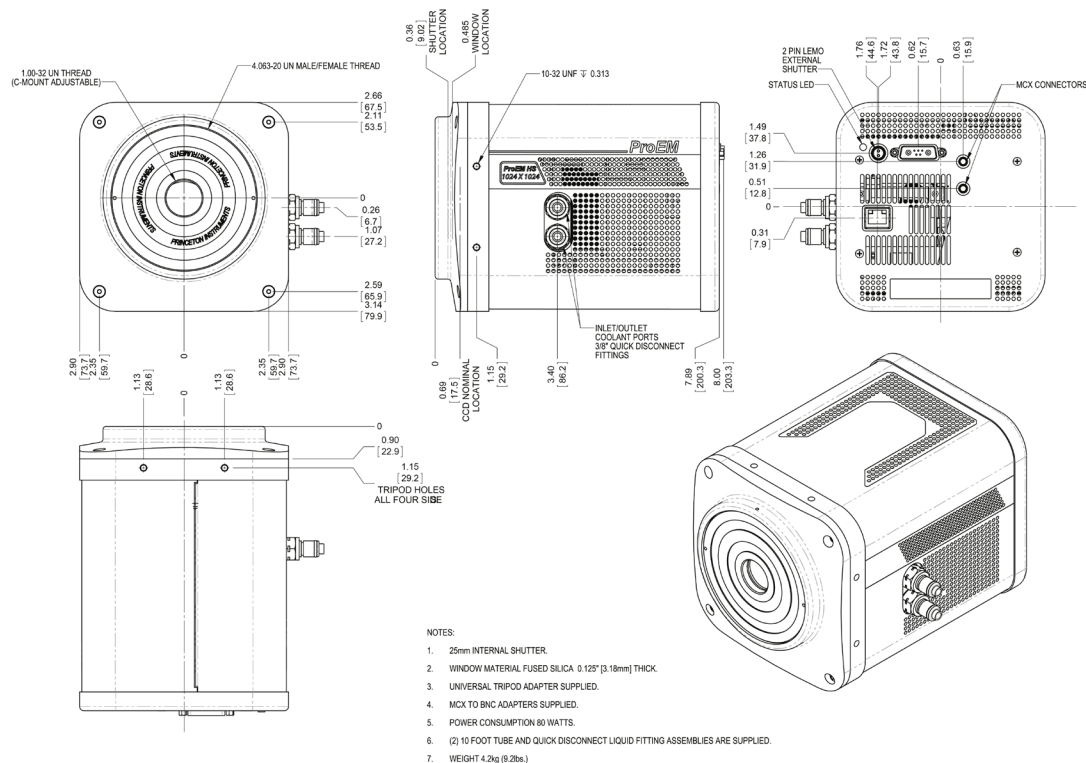
Quantum Efficiency Curve



Frame Rate - Standard Mode (fps)

Binning	1024 x 1024	512 x 512	256 x 256	128 x 128	64 x 64	1024 x 100	1024 x 32	1024 x 1
1 x 1	25	48	89	154	244	215	481	117
2 x 2	48	89	154	244	345	358	675	
4 x 4	89	154	244	346	435	536	847	

Frame rates are measured with 30 MHz ADC rate and 700 ns vertical shift rate



Specifications in this datasheet are subject to change. Refer to the Teledyne Photometrics website for most current specifications.



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