TELEDYNE PHOTOMETRICS
Everywhereyoulook™

Long Exposure Optimized CMOS Camera

E7
RETIGA

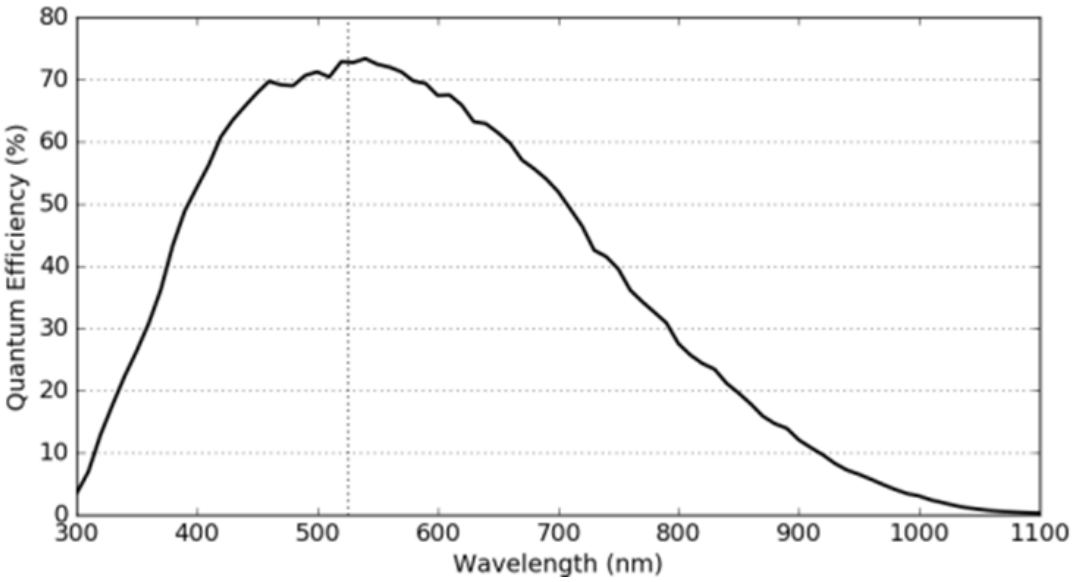
7 Megapixel cooled CMOS
Low readout and thermal noise
Optimized for long exposures
Capable of up to 51 fps

Specifications	Camera Performance
Sensor	CMOS Sensor
Active Array Size	3200 x 2200 (7.1 Megapixel)
Pixel Area	4.5 µm x 4.5 µm
Sensor Area	14.4 mm x 10 mm 17.6 mm diagonal
Peak QE%	>73%
Readout Mode	Global Shutter
Digital Binning	2x2 on chip binning, 4x4 digital binning
Linearity	>99%
Cooling Options	Air Cooled to -20 Celsius

Camera Modes

Specifications	Long Exposure	Fast Capture	HDR
Bit-Depth	12-bit	12-bit	16-bit
Full Frame Rate	3.2 fps	51 fps	TBD
Read Noise	Sensitivity Mode: 2.1 e^- Full-Well Mode: 4.8 e^-		TBD
Dark current	0.02 e^-/pixel/sec	0.1 e^-/pixel/sec	0.02 e^-/pixel/sec
Conversion Gain	Sensitivity Mode: 2.2 e^-/count Full-Well Mode: 4.9 e^-/count		TBD
Full well capacity	19,000 e^-		TBD

Specification	Camera Interface
Digital Interface	USB 3.2 (10 Gbps)
Lens Interface	C-Mount
Mounting Points	2x 1/4"-20 TPI mounting points per side



Accessories (Included)

USB 3.2 Cable and Card

Trigger Cable

Power Supply

Quickstart Guide

Frame Rate

	Long Exposure	Fast Capture	HDR mode
Bit Depth	12	12	16
Full FPS	3.2	51.4	TBD