

1 Specifications

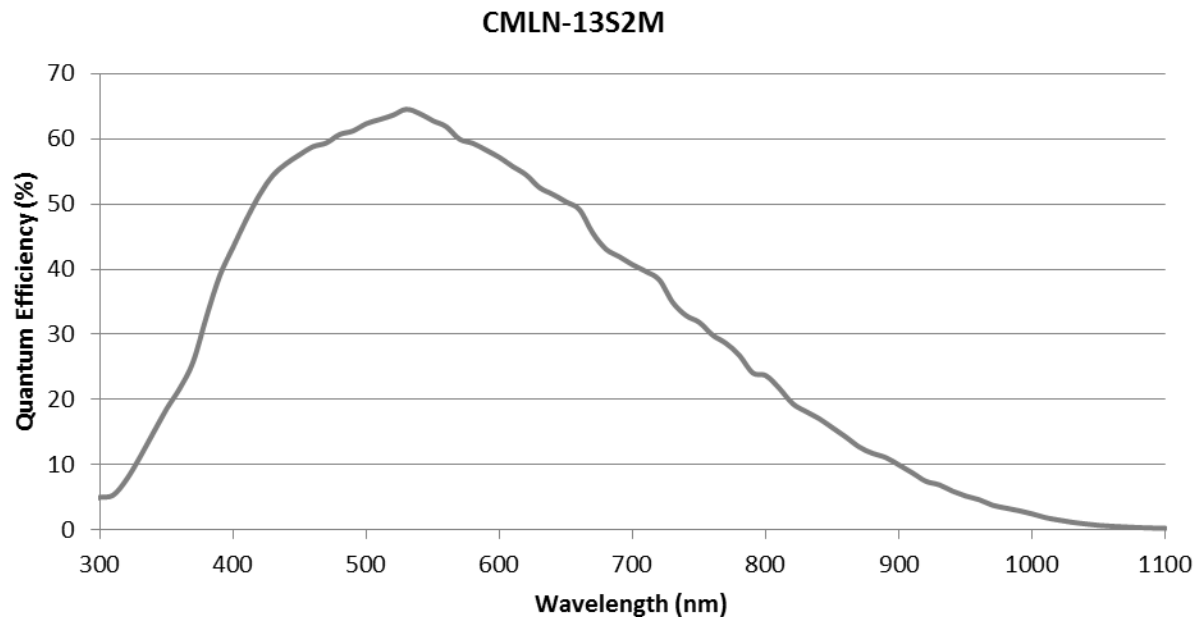
Model	Sensor	Maximum Resolution	Maximum Frame Rate	Pixel Size	Firmware	Results
CMLN-13S2M-CS	Sony ICX445 CCD, 1/3", Mono	1296 x 964	18 FPS	3.75 μm	1.11.3.0	page 3
CMLN-13S2C-CS	Sony ICX445 CCD, 1/3", Color	1296 x 964	18 FPS	3.75 μm	1.11.3.0	page 4



Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are at maximum exposure time and bit depth unless otherwise noted. The pixel format is Mono 16 for mono cameras and Raw 16 for color cameras. Results are captured at room temperature (20°C).

2 CMLN-13S2M-CS Imaging Performance

Measurement	Value	Unit
Quantum Efficiency	64	% at 525 nm
Temporal Dark Noise (Read Noise)	8.82	e-
Signal to Noise Ratio Maximum	38.08	dB
Signal to Noise Ratio Maximum	6.32	Bits
Absolute Sensitivity Threshold	14.85	γ
Saturation Capacity (Well Depth)	6421	e-
Dynamic Range	56.77	dB
Dynamic Range	9.43	Bits
Gain	0.10	e-/ADU



3 CMLN-13S2C-CS Imaging Performance

Measurement	Value	Unit
Quantum Efficiency Blue	46	% at 470 nm
Quantum Efficiency Green	50	% at 525 nm
Quantum Efficiency Red	48	% at 640 nm
Temporal Dark Noise (Read Noise)	7.65	e-
Signal to Noise Ratio Maximum	38.04	dB
Signal to Noise Ratio Maximum	6.32	Bits
Absolute Sensitivity Threshold	17.23	γ
Saturation Capacity (Well Depth)	6365	e-
Dynamic Range	57.85	dB
Dynamic Range	9.61	Bits
Gain	0.10	e-/ADU

CMLN-13S2C

