

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-PGE-70S7

Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Blackfly S BFS-PGE-70S7M		Blackfly S BFS-PGE-70S7C	
Resolution	3208x2200		3208x2200	
Sensor	Sony IMX428, CMOS, 1.1		Sony IMX428, CMOS, 1.1	
Pixel Size (µm)	4.5		4.5	
Firmware Version	2103.0.336.0		2103.0.336.0	
ADC Bit Depth	12		12	
Gain Conversion	High	Low	High	Low
Quantum Efficiency Mono (% at 525 nm)	70.64	71.22	N/A	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	N/A	52.07	53.01
Quantum Efficiency Green (% at 525 nm)	N/A	N/A	62.43	63.45
Quantum Efficiency Red (% at 630 nm)	N/A	N/A	49.47	50.34
Temporal Dark Noise (Read Noise) (e-)	2.63	5.85	2.62	5.92
Temporal Dark Noise (Read Noise) (DN)	15.28	14.93	15.39	15.01
Signal to Noise Ratio Maximum (dB)	40.36	43.97	40.24	44.01
Signal to Noise Ratio Maximum (Bits)	6.70	7.30	6.68	7.31
Absolute Sensitivity Threshold (γ)	4.42	8.92	5.00	10.11
Absolute Sensitivity Threshold (e-)	3.13	6.35	3.12	6.42
Saturation Capacity (Well Depth) (e-)	10864	24920	10559	25198
Saturation Capacity (Well Depth) (γ)	15380	34991	16920	39688
Dynamic Range (dB)	70.82	71.88	70.59	71.87
Dynamic Range (Bits)	11.76	11.94	11.72	11.94
Gain (e-/ADU)	0.17	0.39	0.17	0.39

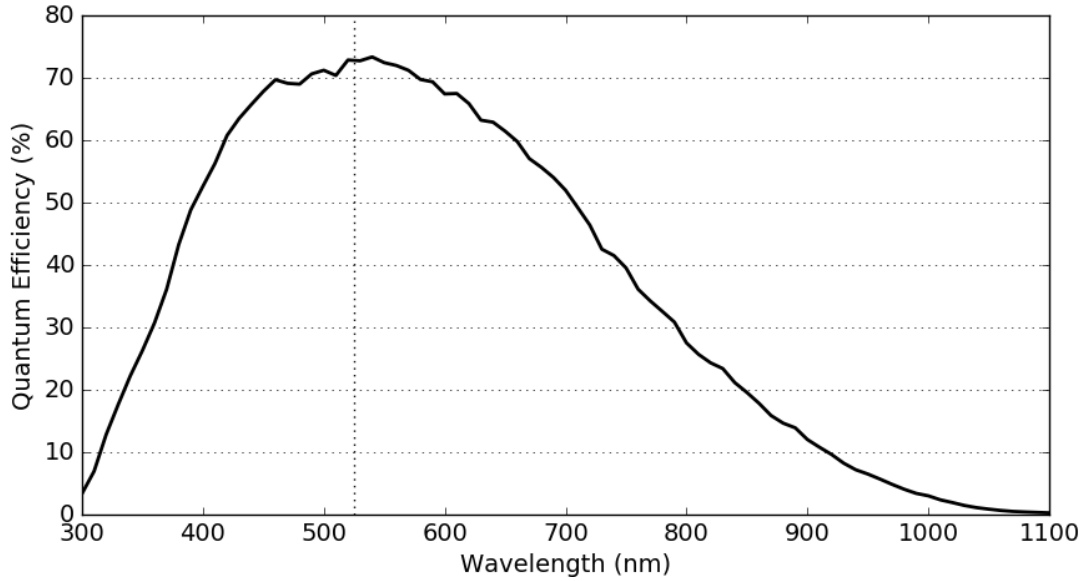
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Blackfly S BFS-PGE-70S7M Spectral Response Curve



Blackfly S BFS-PGE-70S7C Spectral Response Curve

