

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-PGE-27S5

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-27S5M		Blackfly S BFS-PGE-27S5C	
Resolution	1944x1472		1944x1472	
Sensor	IMX429 (2/3, CMOS, Global Shutter)		IMX429 (2/3, CMOS, Global Shutter)	
Pixel Size	4.5		4.5	
Firmware Version	1902.0.102.0		1902.0.102.0	
ADC Bit Depth	12		12	
Gain Conversion	High	Low	High	Low
Quantum Efficiency Mono (% at 525 nm)	67.82	68.64	N/A	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	N/A	51.13	51.91
Quantum Efficiency Green (% at 525 nm)	N/A	N/A	60.10	61.05
Quantum Efficiency Red (% at 630 nm)	N/A	N/A	47.26	47.36
Temporal Dark Noise (Read Noise) (e-)	2.64	5.81	2.63	5.79
Temporal Dark Noise (Read Noise) (DN)	15.24	14.76	15.40	14.88
Signal to Noise Ratio Maximum (dB)	40.38	43.99	40.27	43.89
Signal to Noise Ratio Maximum (Bits)	6.71	7.31	6.69	7.29
Absolute Sensitivity Threshold (γ)	3.14	6.31	3.13	6.29
Absolute Sensitivity Threshold (e-)	4.64	9.20	5.21	10.30
Saturation Capacity (Well Depth) (e-)	10911.90	25048.10	10652.00	24494.90
Saturation Capacity (Well Depth) (γ)	16089.60	36491.10	17705.50	40114.90
Dynamic Range (dB)	70.81	71.97	70.63	71.81
Dynamic Range (Bits)	11.76	11.95	11.73	11.93
Gain (e-/ADU)	0.17	0.39	0.17	0.39

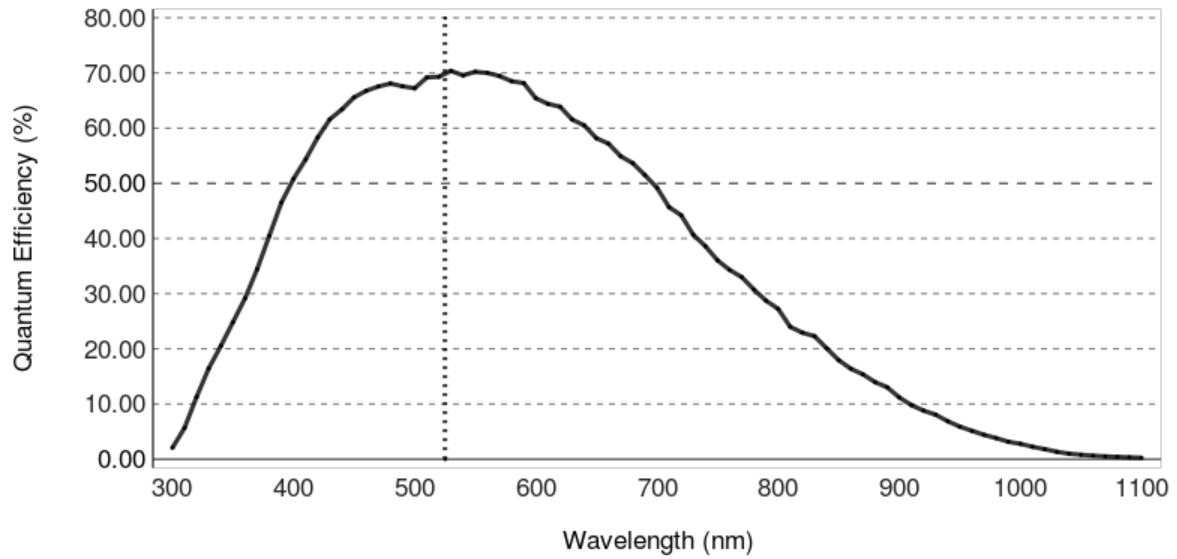
12/5/2022

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Blackfly S BFS-PGE-27S5M Spectral Response Curve

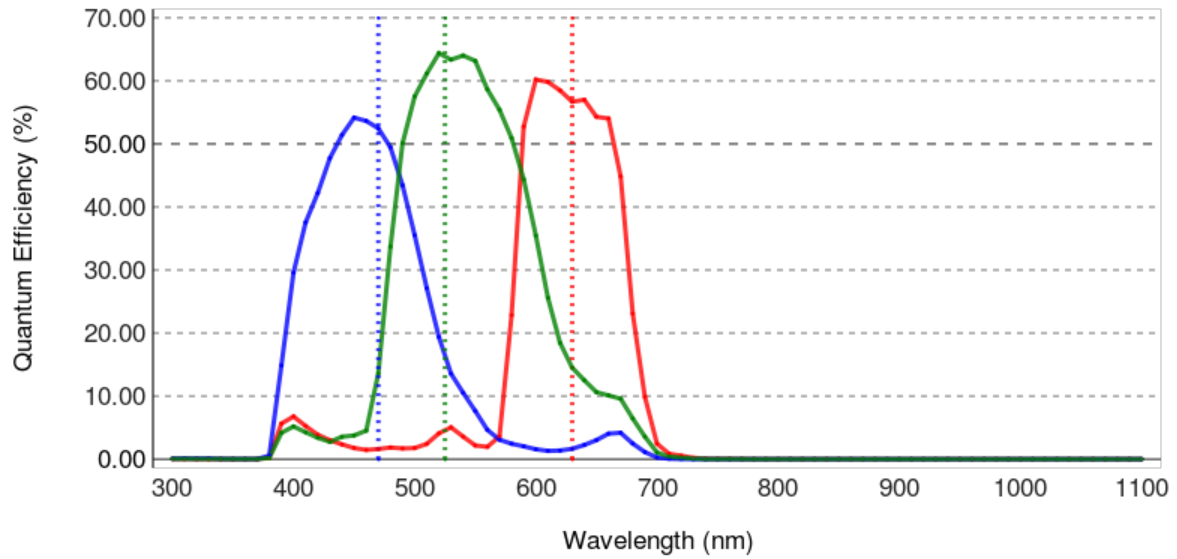


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Blackfly S BFS-PGE-27S5C Spectral Response Curve



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