

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-PGE-80S5

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-80S5M	Blackfly S BFS-PGE-80S5C
Resolution	2840x2840	2840x2840
Sensor	Sony IMX546, CMOS, 2/3	Sony IMX546, CMOS, 2/3
Pixel Size (µm)	2.74	2.74
Firmware Version	2204.0.200.0	2204.0.200.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	67.49	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	44.30
Quantum Efficiency Green (% at 525 nm)	N/A	50.99
Quantum Efficiency Red (% at 630 nm)	N/A	32.61
Temporal Dark Noise (Read Noise) (e-)	2.56	2.61
Temporal Dark Noise (Read Noise) (DN)	16.79	16.72
Signal to Noise Ratio Maximum (dB)	39.83	39.98
Signal to Noise Ratio Maximum (Bits)	6.62	6.64
Absolute Sensitivity Threshold (γ)	4.53	6.12
Absolute Sensitivity Threshold (e-)	3.06	3.11
Saturation Capacity (Well Depth) (e-)	9625	9944
Saturation Capacity (Well Depth) (γ)	14261	19575
Dynamic Range (dB)	69.96	70.10
Dynamic Range (Bits)	11.62	11.64
Gain (e-/ADU)	0.15	0.16

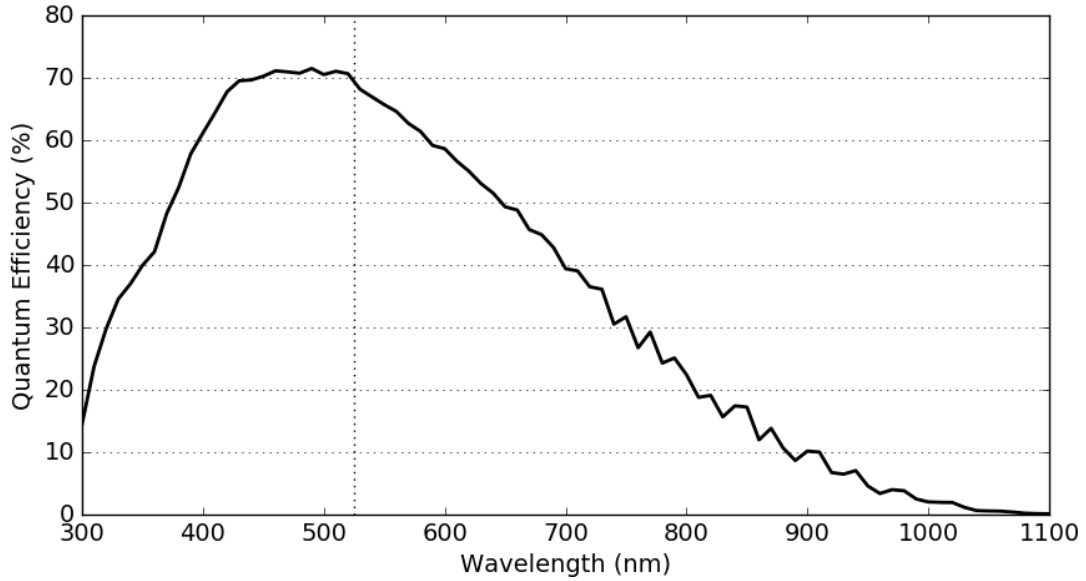
11/1/2022

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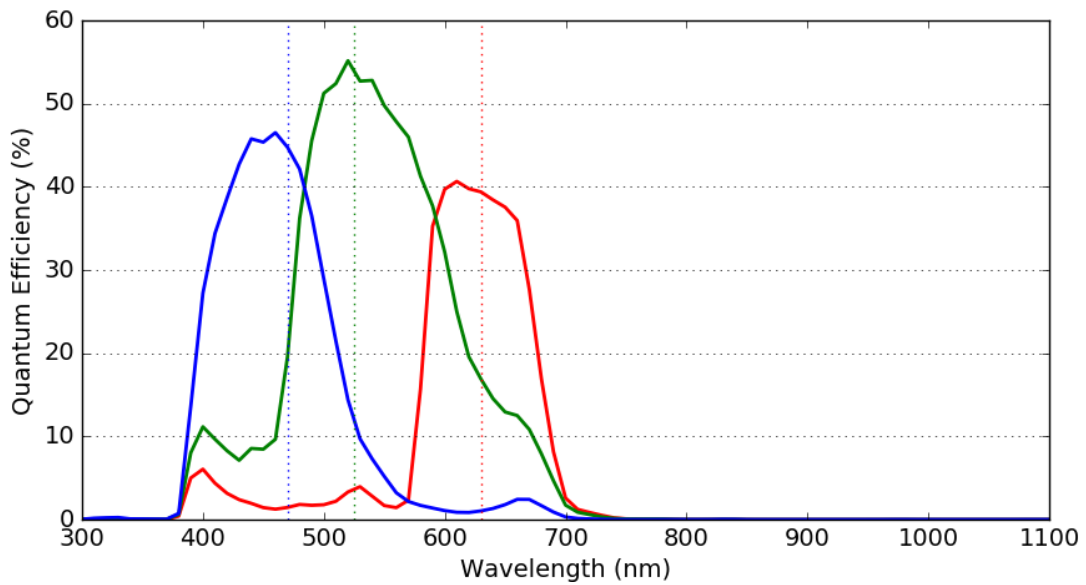
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Blackfly S BFS-PGE-80S5M Spectral Response Curve



Blackfly S BFS-PGE-80S5C Spectral Response Curve



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