EMVA 1288 IMAGING PERFORMANCE

BLACKFLY®S

BFS-PGE-200S7

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-200S7M	Blackfly S BFS-PGE-200S7C
Resolution	4504x4504	4504x4504
Sensor	Sony IMX541, CMOS, 1.1	Sony IMX541, CMOS, 1.1
Pixel Size (µm)	2.74	2.74
Firmware Version	2202.0.378.0	2202.0.378.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	68.05	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	45.94
Quantum Efficiency Green (% at 525 nm)	N/A	52.58
Quantum Efficiency Red (% at 630 nm)	N/A	34.15
Temporal Dark Noise (Read Noise) (e-)	2.31	2.27
Temporal Dark Noise (Read Noise) (DN)	14.98	14.94
Signal to Noise Ratio Maximum (dB)	39.85	39.84
Signal to Noise Ratio Maximum (Bits)	6.62	6.62
Absolute Sensitivity Threshold (γ)	4.13	5.28
Absolute Sensitivity Threshold (e-)	2.81	2.77
Saturation Capacity (Well Depth) (e-)	9657	9645
Saturation Capacity (Well Depth) (γ)	14191	18377
Dynamic Range (dB)	70.73	70.83
Dynamic Range (Bits)	11.75	11.76
Gain (e-/ADU)	0.15	0.15

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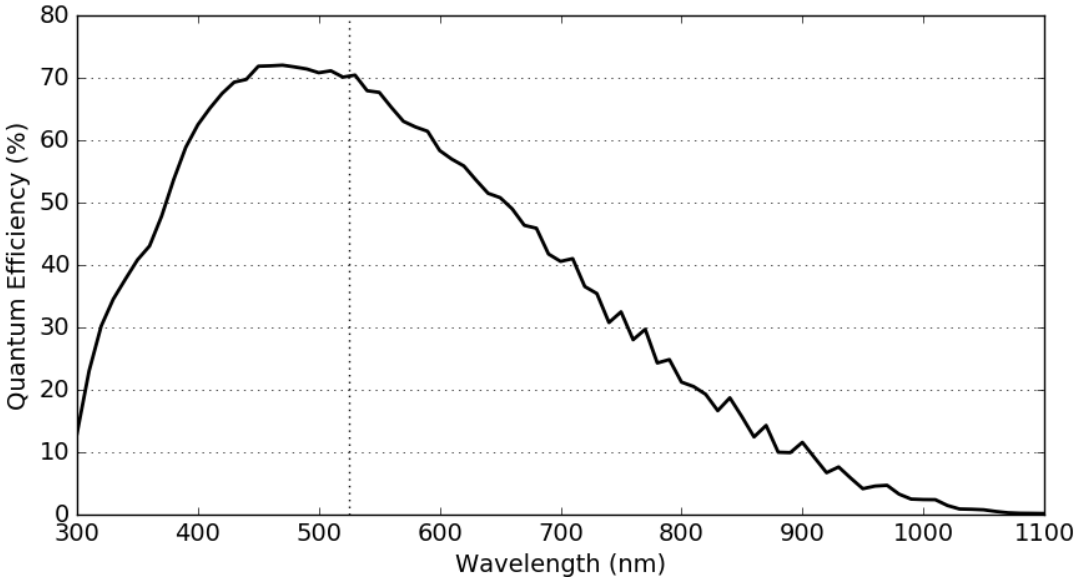
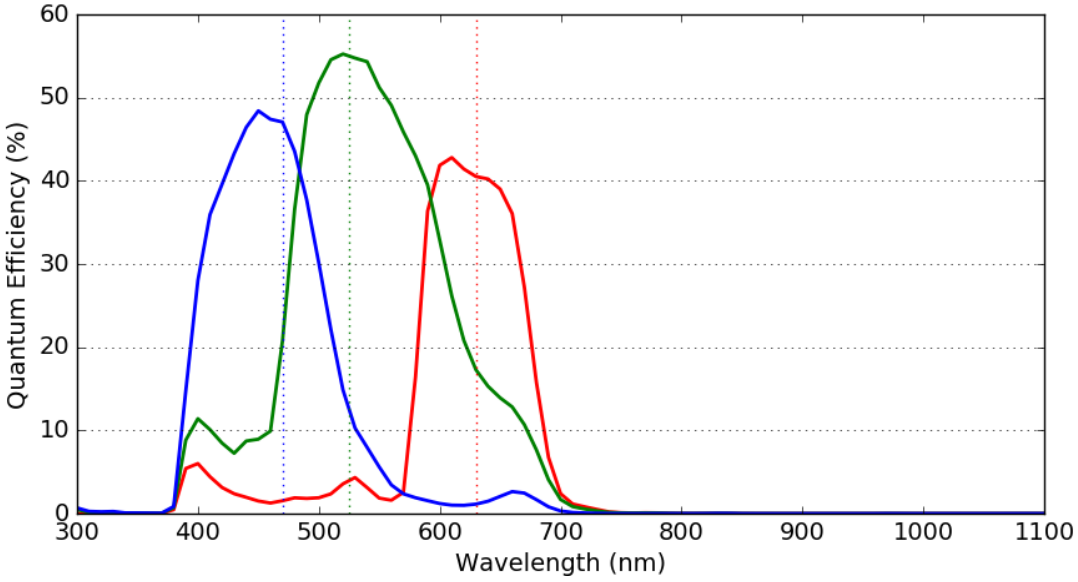
TELEDYNE

Blackfly S BFS-PGE-200S7M Spectral Response Curve



Blackfly S BFS-PGE-200S7C Spectral Response Curve



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