

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-PGE-23S3

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-23S3M	Blackfly S BFS-PGE-23S3C
Resolution	1920x1200	1920x1200
Sensor	Sony IMX392, CMOS, 1/2.3	Sony IMX392, CMOS, 1/2.3
Pixel Size (µm)	3.45	3.45
Firmware Version	2103.0.335.0	2103.0.335.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	64.61	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	49.01
Quantum Efficiency Green (% at 525 nm)	N/A	59.13
Quantum Efficiency Red (% at 630 nm)	N/A	45.89
Temporal Dark Noise (Read Noise) (e-)	2.35	2.32
Temporal Dark Noise (Read Noise) (DN)	13.54	13.52
Signal to Noise Ratio Maximum (dB)	40.43	40.41
Signal to Noise Ratio Maximum (Bits)	6.71	6.71
Absolute Sensitivity Threshold (γ)	4.41	4.80
Absolute Sensitivity Threshold (e-)	2.85	2.82
Saturation Capacity (Well Depth) (e-)	11031	10987
Saturation Capacity (Well Depth) (γ)	17073	18730
Dynamic Range (dB)	71.75	71.82
Dynamic Range (Bits)	11.92	11.93
Gain (e-/ADU)	0.17	0.17

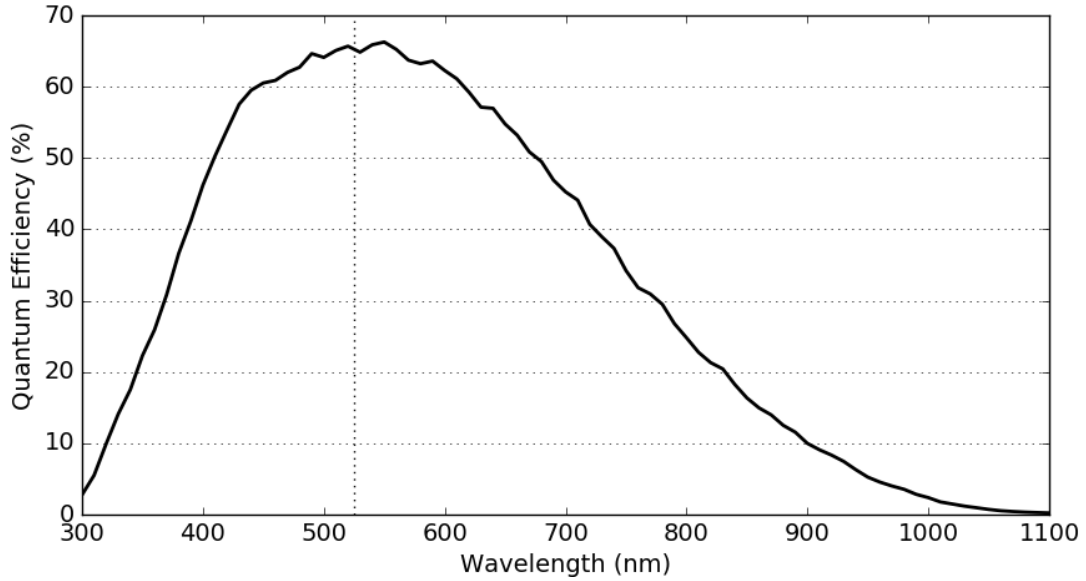
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Blackfly S BFS-PGE-23S3M Spectral Response Curve



Blackfly S BFS-PGE-23S3C Spectral Response Curve

