

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-PGE-13Y3

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-13Y3M	Blackfly S BFS-PGE-13Y3C
Resolution	1280x1024	1280x1024
Sensor	On Semi P1300, CMOS, 1/2	On Semi P1300, CMOS, 1/2
Pixel Size (µm)	4.8	4.8
Firmware Version	2111.0.112.0	2111.0.112.0
ADC Bit Depth	10	10
Quantum Efficiency Mono (% at 525 nm)	53.35	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	38.26
Quantum Efficiency Green (% at 525 nm)	N/A	39.78
Quantum Efficiency Red (% at 630 nm)	N/A	36.66
Temporal Dark Noise (Read Noise) (e-)	9.66	9.48
Temporal Dark Noise (Read Noise) (DN)	65.59	63.15
Signal to Noise Ratio Maximum (dB)	37.62	37.77
Signal to Noise Ratio Maximum (Bits)	6.25	6.27
Absolute Sensitivity Threshold (γ)	19.04	25.09
Absolute Sensitivity Threshold (e-)	10.16	9.98
Saturation Capacity (Well Depth) (e-)	5778	5979
Saturation Capacity (Well Depth) (γ)	10830	15026
Dynamic Range (dB)	55.10	55.55
Dynamic Range (Bits)	9.15	9.23
Gain (e-/ADU)	0.15	0.15

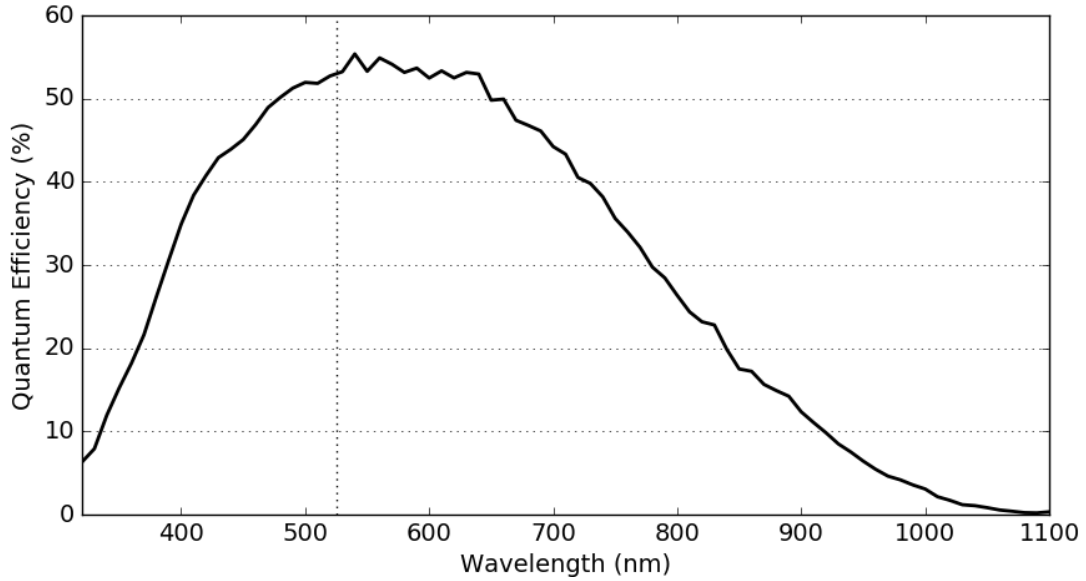
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Blackfly S BFS-PGE-13Y3M Spectral Response Curve



Blackfly S BFS-PGE-13Y3C Spectral Response Curve

