

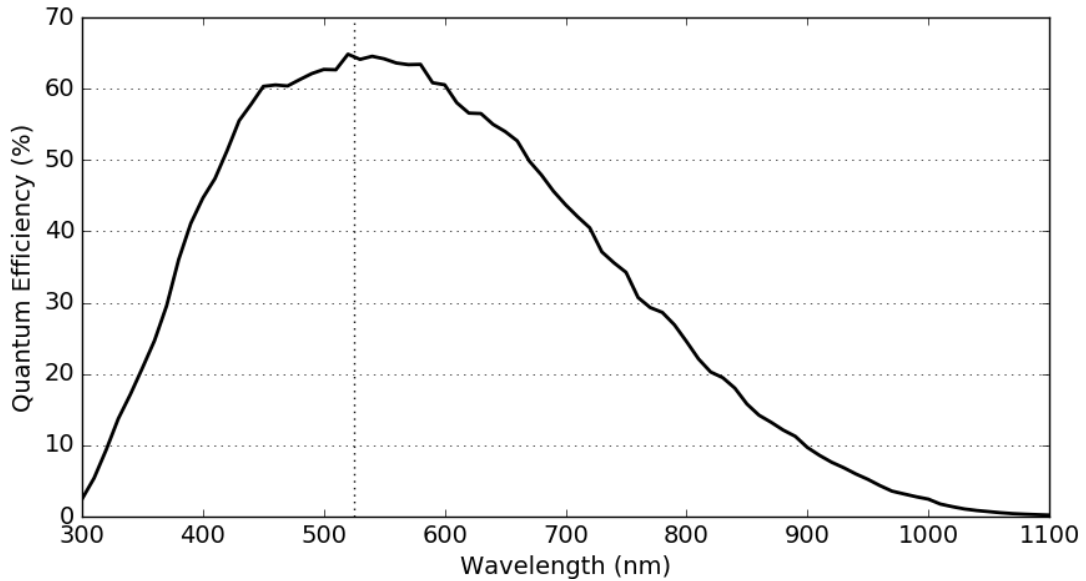
EMVA 1288 IMAGING PERFORMANCE

FLIR **BLACKFLY[®]S** BFS-PGE-31S4

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-31S4M	Blackfly S BFS-PGE-31S4C
Resolution	2048x1536	2048x1536
Sensor	Sony IMX265, CMOS, 1/1.8	Sony IMX265, CMOS, 1/1.8
Pixel Size (µm)	3.45	3.45
Firmware Version	2103.0.342.0	2103.0.342.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	63.20	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	48.34
Quantum Efficiency Green (% at 525 nm)	N/A	59.51
Quantum Efficiency Red (% at 630 nm)	N/A	45.86
Temporal Dark Noise (Read Noise) (e-)	2.30	2.30
Temporal Dark Noise (Read Noise) (DN)	13.41	13.17
Signal to Noise Ratio Maximum (dB)	40.32	40.46
Signal to Noise Ratio Maximum (Bits)	6.70	6.72
Absolute Sensitivity Threshold (γ)	4.43	4.71
Absolute Sensitivity Threshold (e-)	2.80	2.80
Saturation Capacity (Well Depth) (e-)	10760	11126
Saturation Capacity (Well Depth) (γ)	17025	18728
Dynamic Range (dB)	71.69	72.00
Dynamic Range (Bits)	11.91	11.96
Gain (e-/ADU)	0.17	0.17

Blackfly S BFS-PGE-31S4M Spectral Response Curve



Blackfly S BFS-PGE-31S4C Spectral Response Curve

