

EMVA 1288 IMAGING PERFORMANCE

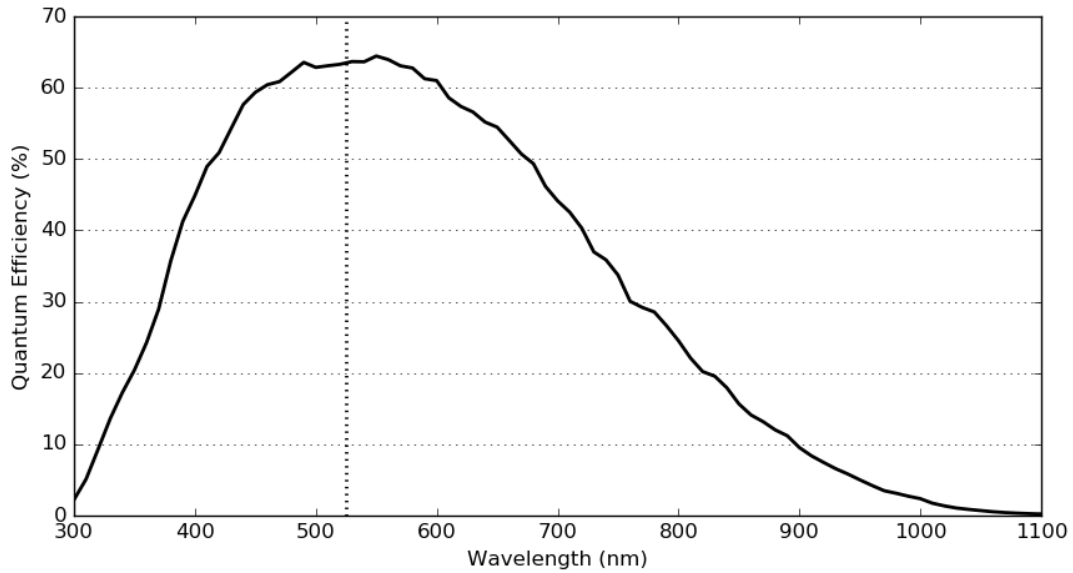
FLIR BLACKFLY[®]S

BFS-U3-31S4

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).

	BFS-U3-31S4M	BFS-U3-31S4C
Resolution	2048 x 1536	2048 x 1536
Sensor	Sony IMX265, CMOS, 1/1.8"	Sony IMX265, CMOS, 1/1.8"
Pixel Size (µm)	3.45	3.45
Firmware	1712.2.1.0	1712.2.1.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 525 nm)	62	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	47
Quantum Efficiency Green (% at 525 nm)	N/A	56
Quantum Efficiency Red (% at 640 nm)	N/A	45
Temporal Dark Noise (Read Noise) (e-)	2.26	2.21
Temporal Dark Noise (Read Noise) (DN)	13.10	12.81
Signal to Noise Ratio Maximum (dB)	40.33	40.29
Signal to Noise Ratio Maximum (Bits)	6.70	6.69
Absolute Sensitivity Threshold (γ)	4.43	4.83
Absolute Sensitivity Threshold (e-)	2.76	2.71
Saturation Capacity (Well Depth) (e-)	10791	10689
Saturation Capacity (Well Depth) (Photons)	17305	19055
Dynamic Range (dB)	71.83	71.92
Dynamic Range (Bits)	11.93	11.95
Gain (e-/ADU)	0.17	0.17

BFS-U3-31S4M



BFS-U3-31S4C

