

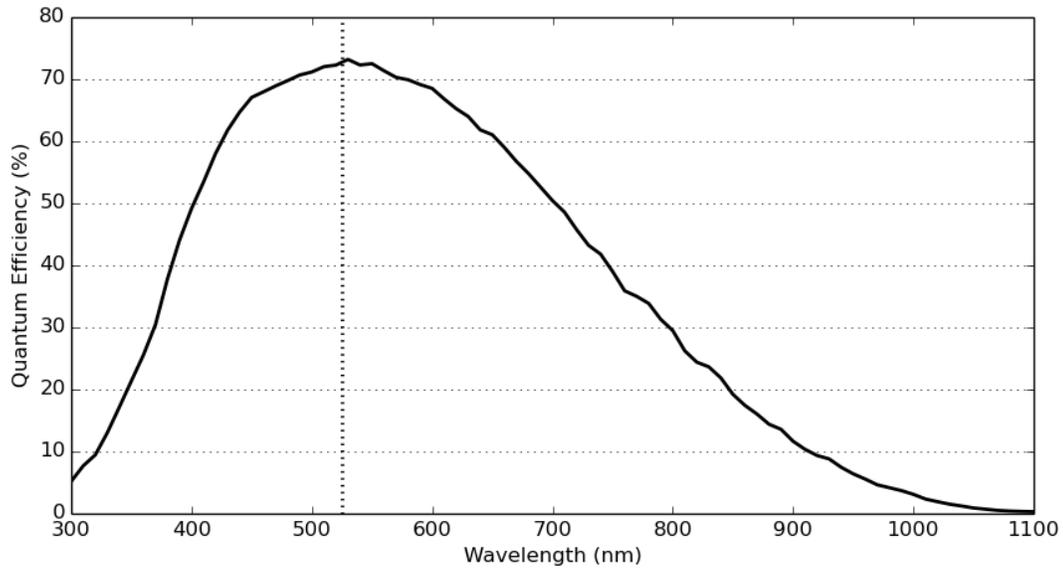
EMVA 1288 IMAGING PERFORMANCE

FLIR **BLACKFLY**[®]S BFS-U3-51S5

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-U3-51S5M	BFS-U3-51S5C
Resolution	2448 x 2048	2488 x 2048
Sensor	Sony IMX250, CMOS, 2/3"	Sony IMX250, CMOS, 2/3"
Pixel Size (µm)	3.45	3.45
Firmware	1605.1.3.0	1605.1.3.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 525 nm)	72	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	48
Quantum Efficiency Green (% at 525 nm)	N/A	66
Quantum Efficiency Red (% at 640 nm)	N/A	61
Temporal Dark Noise (Read Noise) (e-)	2.31	2.38
Temporal Dark Noise (Read Noise) (DN)	13.17	13.76
Signal to Noise Ratio Maximum (dB)	40.06	39.97
Signal to Noise Ratio Maximum (Bits)	6.65	6.64
Absolute Sensitivity Threshold (γ)	3.90	4.39
Absolute Sensitivity Threshold (e-)	2.81	2.88
Saturation Capacity (Well Depth) (e-)	10141	9923
Saturation Capacity (Well Depth) (γ)	14045	15105
Dynamic Range (dB)	71.13	70.74
Dynamic Range (Bits)	11.82	11.75
Gain (e-/ADU)	0.18	0.17

BFS-U3-51S5M



BFS-U3-51S5C

