

EMVA 1288 IMAGING PERFORMANCE

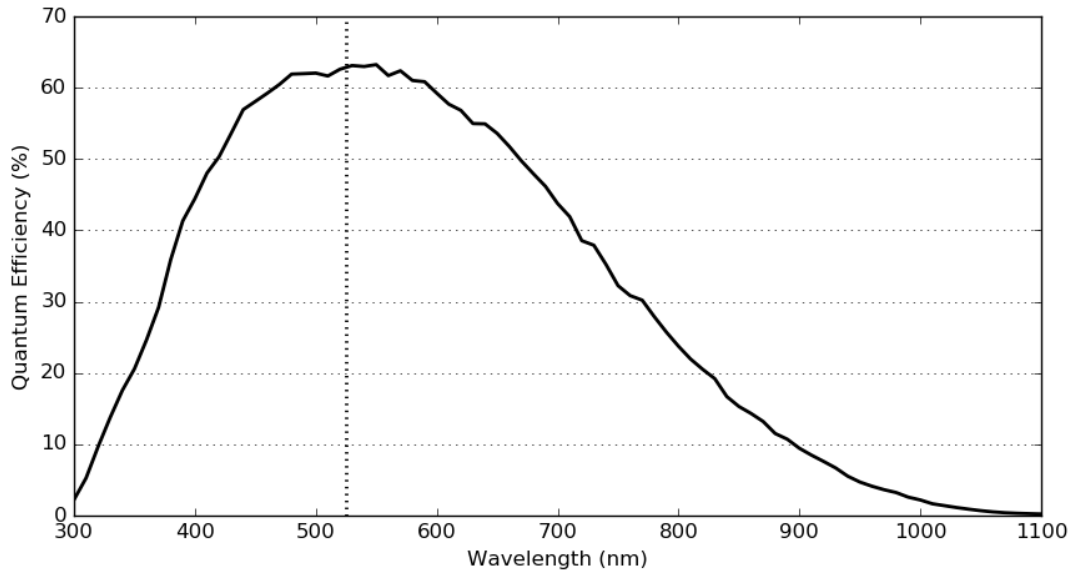
FLIR BLACKFLY[®]S

BFS-U3-50S5

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). Using FLIR test software version 4.0.

	BFS-U3-50S5M	BFS-U3-50S5C
Resolution	2448 x 2048	2448 x 2048
Sensor	Sony IMX264, CMOS 2/3"	Sony IMX264, CMOS 2/3"
Pixel Size (µm)	3.45	3.45
Firmware	1801.1.2.0	1801.1.2.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 530 nm)	62	N/A
Quantum Efficiency Blue (% at 460 nm)	N/A	47
Quantum Efficiency Green (% at 530 nm)	N/A	57
Quantum Efficiency Red (% at 625 nm)	N/A	45
Temporal Dark Noise (Read Noise) (e-)	2.25	2.28
Temporal Dark Noise (Read Noise) (DN)	13.19	13.25
Signal to Noise Ratio Maximum (dB)	40.28	40.37
Signal to Noise Ratio Maximum (Bits)	6.69	6.71
Absolute Sensitivity Threshold (γ)	4.47	4.86
Absolute Sensitivity Threshold (e-)	2.75	2.78
Saturation Capacity (Well Depth) (e-)	10658	10889
Saturation Capacity (Well Depth) (γ)	17324	19025
Dynamic Range (dB)	71.77	71.85
Dynamic Range (Bits)	11.92	11.93
Gain (e-/ADU)	0.17	0.17

BFS-U3-50S5M



BFS-U3-50S5C

