

EMVA 1288 IMAGING PERFORMANCE

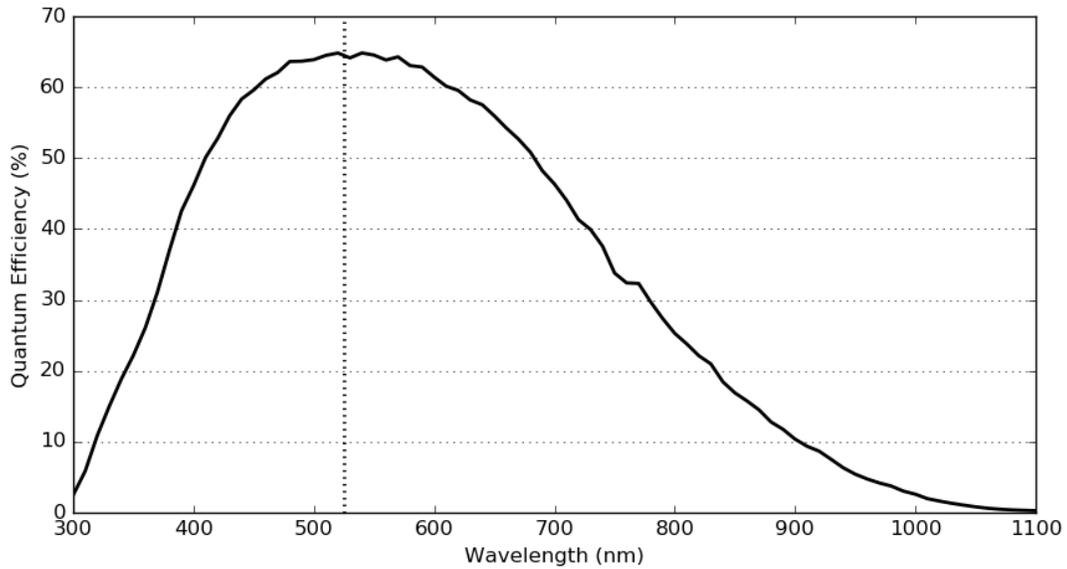
FLIR BLACKFLY[®]S

BFS-U3-123S6

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-U3-123S6M	BFS-U3-123S6C
Resolution	4112 x 3008	4112 x 3008
Sensor	Sony IMX253, CMOS, 1.1"	Sony IMX253, CMOS, 1.1"
Pixel Size (µm)	3.45	3.45
Firmware	1707.1.4.0	1707.1.4.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 530 nm)	63	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	46
Temporal Dark Noise (Read Noise) (e-)	2.47	2.48
Temporal Dark Noise (Read Noise) (DN)	14.39	14.12
Signal to Noise Ratio Maximum (dB)	40.37	40.50
Signal to Noise Ratio Maximum (Bits)	6.70	6.73
Absolute Sensitivity Threshold (γ)	4.71	5.20
Absolute Sensitivity Threshold (e-)	2.97	2.98
Saturation Capacity (Well Depth) (e-)	10878	11224
Saturation Capacity (Well Depth) (γ)	17225	19561
Dynamic Range (dB)	71.27	71.51
Dynamic Range (Bits)	11.84	11.88
Gain (e-/ADU)	0.17	0.18

BFS-U3-123S6M



BFS-U3-123S6C

