EMVA 1288 IMAGING PERFORMANCE
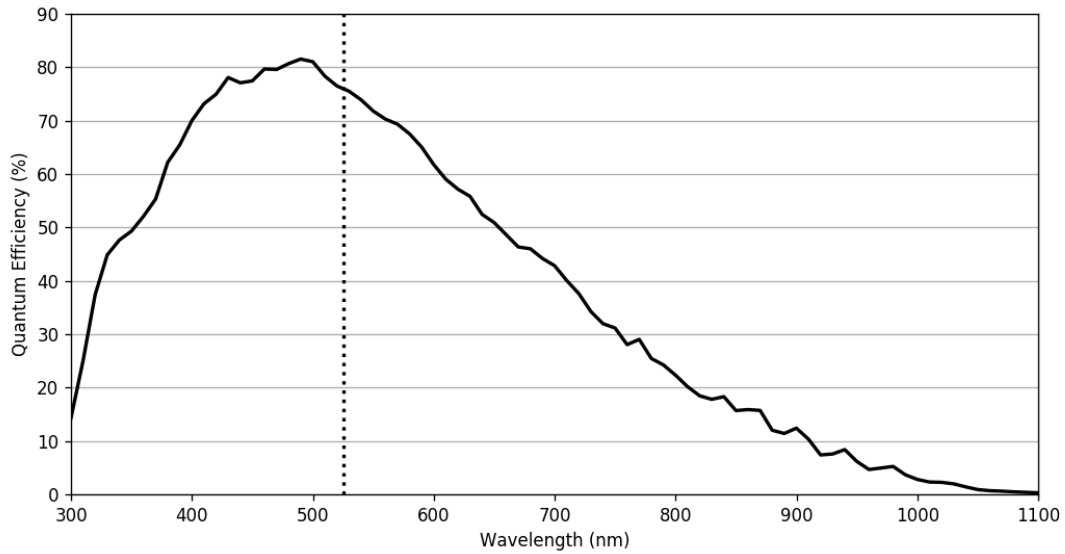
FLIR *BLACKFLY®S*

BFS-U3-63S4

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-U3-63S4M	BFS-U3-63S4C
Resolution	3072 x 2048	3072 x 2048
Sensor	Sony IMX178, CMOS, 1/1.8"	Sony IMX178, CMOS, 1/1.8"
Pixel Size (µm)	2.4	2.4
Firmware	1801.0.9.0	1801.0.9.0
ADC	14-bit	14-bit
Quantum Efficiency Mono (% at 530 nm)	73	N/A
Quantum Efficiency Blue (% at 460 nm)	N/A	59
Quantum Efficiency Green (% at 530 nm)	N/A	63
Quantum Efficiency Red (% at 625 nm)	N/A	39
Temporal Dark Noise (Read Noise) (e-)	2.42	2.41
Temporal Dark Noise (Read Noise) (DN)	10.43	10.51
Signal to Noise Ratio Maximum (dB)	41.52	41.44
Signal to Noise Ratio Maximum (Bits)	6.90	6.88
Absolute Sensitivity Threshold (γ)	4.03	4.65
Absolute Sensitivity Threshold (e-)	2.92	2.91
Saturation Capacity (Well Depth) (e-)	14204	13921
Saturation Capacity (Well Depth) (γ)	19586	22263
Dynamic Range (dB)	73.73	73.61
Dynamic Range (Bits)	12.25	12.23
Gain (e-/ADU)	0.23	0.23

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