

EMVA 1288 IMAGING PERFORMANCE

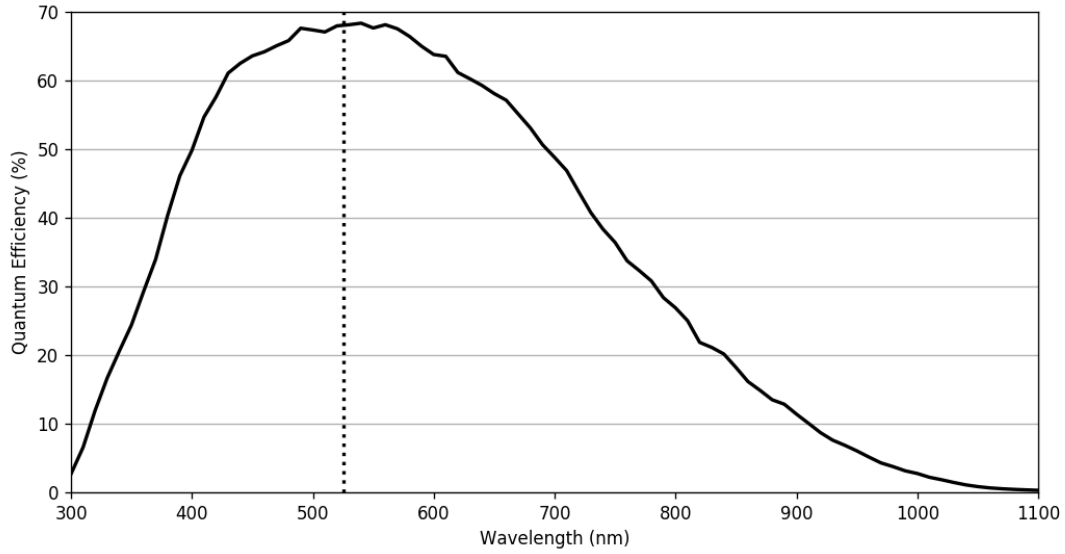
FLIR BLACKFLY[®]S

BFS-U3-70S7

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-U3-70S7M	BFS-U3-70S7C			
Resolution	3208 x 2200	3208 x 2200			
Sensor	Sony IMX428, CMOS, 1.1"	Sony IMX428, CMOS, 1.1"			
Pixel Size (µm)	4.5	4.5			
Firmware	1806.0.315.0	1806.0.315.0			
ADC	12-bit	12-bit			
	Conversion Gain	High	Low	High	Low
Quantum Efficiency Mono (% at 530 nm)		77	78	N/A	N/A
Quantum Efficiency Blue (% at 460 nm)		N/A	N/A	52	53
Quantum Efficiency Green (% at 530 nm)		N/A	N/A	68	69
Quantum Efficiency Red (% at 625 nm)		N/A	N/A	63	64
Temporal Dark Noise (Read Noise) (e-)		2.66	5.99	2.70	6.06
Temporal Dark Noise (Read Noise) (DN)		15.36	15.00	15.30	14.90
Signal to Noise Ratio Maximum (dB)		40.36	44.05	40.45	44.05
Signal to Noise Ratio Maximum (Bits)		6.70	7.32	6.72	7.32
Absolute Sensitivity Threshold (γ)		4.13	8.34	4.73	9.52
Absolute Sensitivity Threshold (e-)		3.16	6.49	3.20	6.56
Saturation Capacity (Well Depth) (e-)		10867	25420	11097	25428
Saturation Capacity (Well Depth) (γ)		14199	32656	16384	36863
Dynamic Range (dB)		70.72	71.86	70.79	71.76
Dynamic Range (Bits)		11.75	11.94	11.76	11.92
Gain (e-/ADU)		0.17	0.40	0.18	0.41

BFS-U3-70S7M



BFS-U3-70S7C

