EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY® S

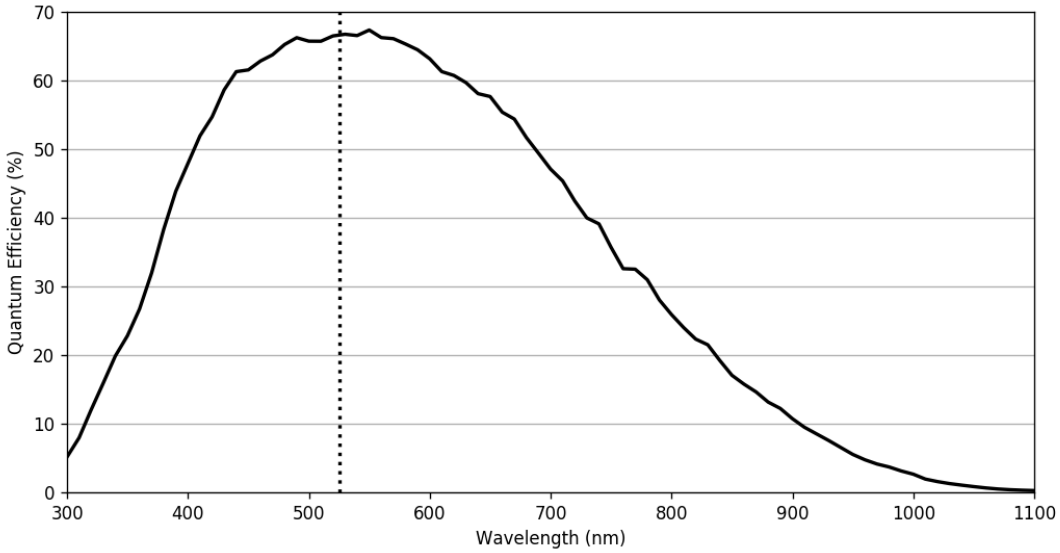
BFS-U3-51S5-BD2

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-BD	BFS-U3-51S5C-BD
Resolution	2448 x 2048	2448 x 2048
Sensor	Sony IMX250, CMOS, 2/3"	Sony IMX250, CMOS, 2/3"
Pixel Size (µm)	3.45	3.45
Firmware	1804.3.6.0	1804.3.6.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 530 nm)	75	N/A
Quantum Efficiency Blue (% at 460 nm)	N/A	51
Quantum Efficiency Green (% at 530 nm)	N/A	68
Quantum Efficiency Red (% at 625 nm)	N/A	62
Temporal Dark Noise (Read Noise) (e-)	2.42	2.40
Temporal Dark Noise (Read Noise) (DN)	13.76	13.58
Signal to Noise Ratio Maximum (dB)	40.35	40.53
Signal to Noise Ratio Maximum (Bits)	6.70	6.73
Absolute Sensitivity Threshold (γ)	3.89	4.29
Absolute Sensitivity Threshold (e-)	2.92	2.90
Saturation Capacity (Well Depth) (e-)	10836	11301
Saturation Capacity (Well Depth) (γ)	14424	16686
Dynamic Range (dB)	71.39	71.81
Dynamic Range (Bits)	11.86	11.93
Gain (e-/ADU)	0.18	0.18

1288
EMVA Standard Compliant

BFS-U3-51S5M-BD



BFS-U3-51S5C-BD