

EMVA 1288 IMAGING PERFORMANCE

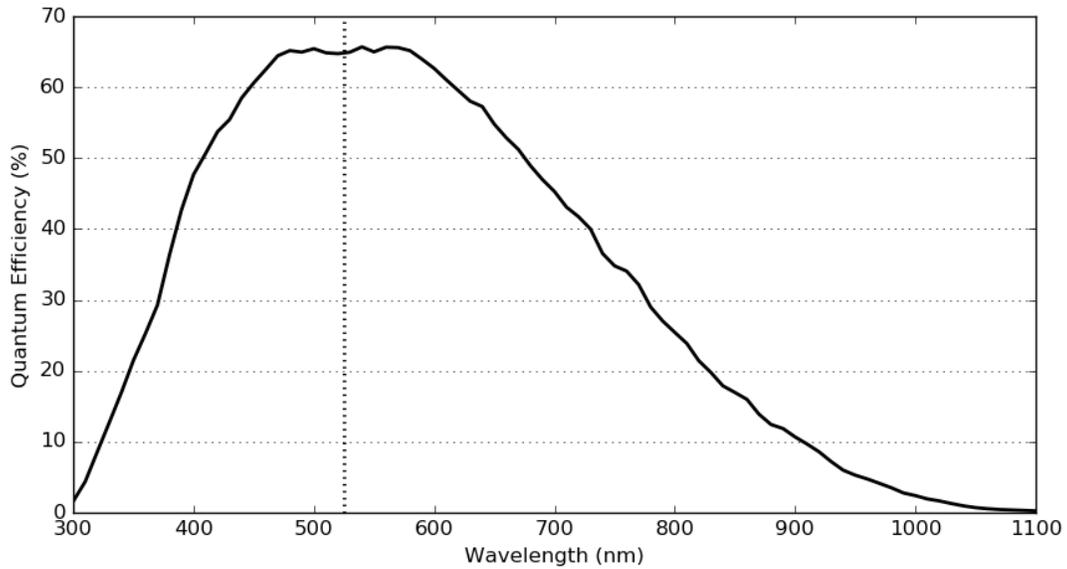
FLIR BLACKFLY[®]S

BFS-U3-04S2

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-U3-04S2M	BFS-U3-04S2C
Resolution	720 x 540	720 x 540
Sensor	Sony IMX287, CMOS, 1/2.9"	Sony IMX287, CMOS, 1/2.9"
Pixel Size (µm)	6.9	6.9
Firmware	1707.1.6.0	1707.1.6.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 530 nm)	62	N/A
Quantum Efficiency Blue (% at 460 nm)	N/A	50
Quantum Efficiency Green (% at 530 nm)	N/A	57
Quantum Efficiency Red (% at 625 nm)	N/A	45
Temporal Dark Noise (Read Noise) (e-)	3.71	3.80
Temporal Dark Noise (Read Noise) (DN)	10.71	10.82
Signal to Noise Ratio Maximum (dB)	43.46	43.51
Signal to Noise Ratio Maximum (Bits)	7.22	7.23
Absolute Sensitivity Threshold (γ)	6.81	7.55
Absolute Sensitivity Threshold (e-)	4.21	4.30
Saturation Capacity (Well Depth) (e-)	22187	22436
Saturation Capacity (Well Depth) (γ)	35889	39391
Dynamic Range (dB)	74.43	74.35
Dynamic Range (Bits)	12.36	12.35
Gain (e-/ADU)	0.35	0.35

BFS-U3-04S2M



BFS-U3-04S2C

