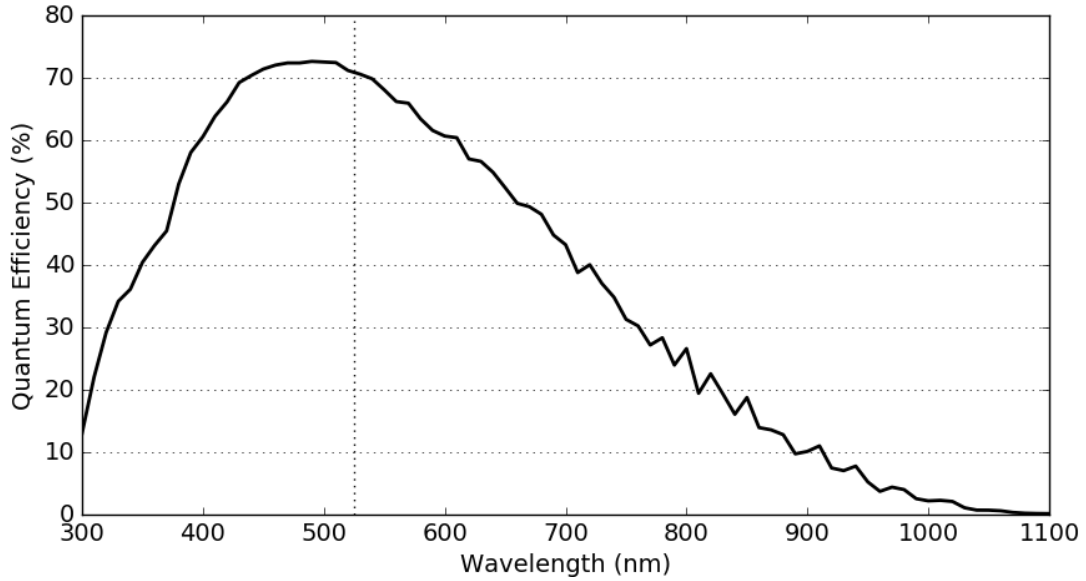# EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY®S
BFS-U3-244S8

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).

	Blackfly S BFS-U3-244S8M	Blackfly S BFS-U3-244S8C
Resolution	5320x4600	5320x4600
Sensor	Sony IMX540, CMOS, 4/3	Sony IMX540, CMOS, 4/3
Pixel Size (µm)	2.74	2.74
Firmware Version	2103.0.628.0	2103.0.628.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	69.56	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	47.24
Quantum Efficiency Green (% at 525 nm)	N/A	54.12
Quantum Efficiency Red (% at 630 nm)	N/A	35.51
Temporal Dark Noise (Read Noise) (e-)	2.30	2.33
Temporal Dark Noise (Read Noise) (DN)	15.15	15.15
Signal to Noise Ratio Maximum (dB)	39.83	39.83
Signal to Noise Ratio Maximum (Bits)	6.62	6.62
Absolute Sensitivity Threshold (γ)	4.03	5.24
Absolute Sensitivity Threshold (e-)	2.80	2.83
Saturation Capacity (Well Depth) (e-)	9623	9623
Saturation Capacity (Well Depth) (γ)	13834	17818
Dynamic Range (dB)	70.72	70.63
Dynamic Range (Bits)	11.75	11.73
Gain (e-/ADU)	0.15	0.15

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Blackfly S BFS-U3-244S8M Spectral Response Curve

Blackfly S BFS-U3-244S8C Spectral Response Curve

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