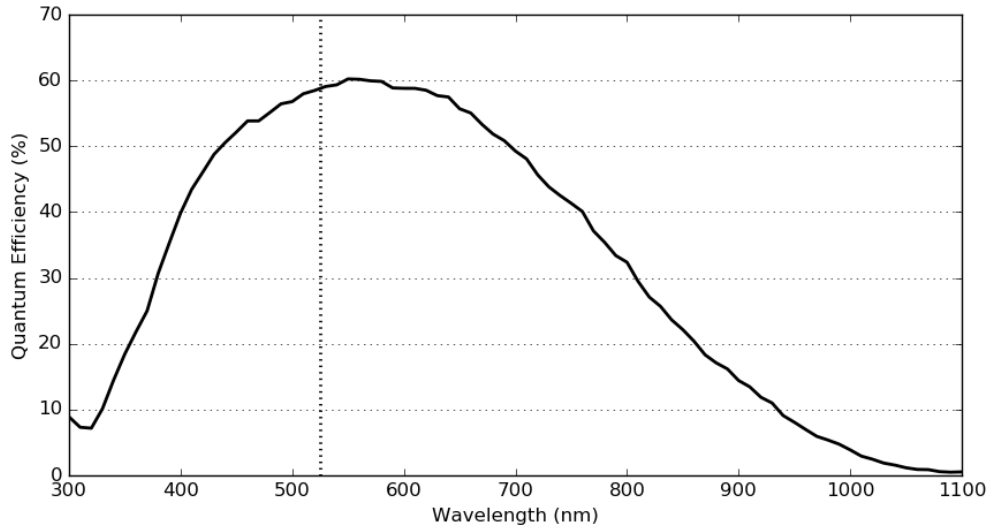# EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY®S
BFS-U3-13Y3

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-U3-13Y3M	BFS-U3-13Y3C
Resolution	1280 x 1024	1280 x 1024
Sensor	On Semi P1300, CMOS, 1/2"	On Semi P1300, CMOS, 1/2"
Pixel Size (µm)	4.80	4.80
Firmware	1608.0.47.0	1608.0.47.0
ADC	10-bit	10-bit
Quantum Efficiency Mono (% at 525 nm)	60	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	40
Quantum Efficiency Green (% at 525 nm)	N/A	46
Quantum Efficiency Red (% at 640 nm)	N/A	50
Temporal Dark Noise (Read Noise) (e-)	9.65	9.89
Temporal Dark Noise (Read Noise) (DN)	62.93	63.59
Signal to Noise Ratio Maximum (dB)	37.81	38.03
Signal to Noise Ratio Maximum (Bits)	6.28	6.32
Absolute Sensitivity Threshold (γ)	16.90	22.46
Absolute Sensitivity Threshold (e-)	10.15	10.39
Saturation Capacity (Well Depth) (e-)	6034	6348
Saturation Capacity (Well Depth) (γ)	10045	13730
Dynamic Range (dB)	55.48	55.72
Dynamic Range (Bits)	9.22	9.26
Gain (e-/ADU)	0.15	0.16

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BFS-U3-13Y3M

BFS-U3-13Y3C

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