EMVA 1288 IMAGING PERFORMANCE
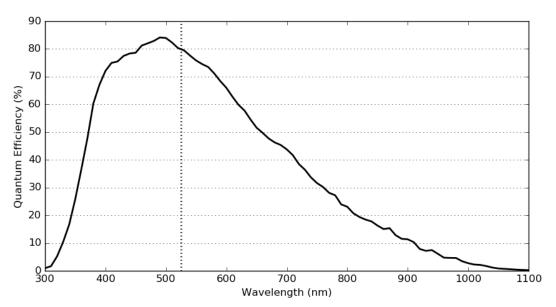
FLIR BLACKFLY®S
BFS-U3-200S6

EMVA 1288 Imaging Performance

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-U3-200S6M	BFS-U3-200S6C
Resolution	5472 x 3648	5472 x 3648
Sensor	Sony IMX183, CMOS 1"	Sony IMX183, CMOS 1"
Pixel Size (µm)	2.40	2.40
Firmware	1705.0.124.0	1705.0.124.0
ADC	12-bit	12-bit
Quantum Efficiency Mono (% at 525 nm)	79	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	63
Quantum Efficiency Green (% at 525 nm)	N/A	69
Quantum Efficiency Red (% at 640 nm)	N/A	43
Temporal Dark Noise (Read Noise) (e-)	3.30	3.29
Temporal Dark Noise (Read Noise) (DN)	13.85	13.78
Signal to Noise Ratio Maximum (dB)	41.71	41.84
Signal to Noise Ratio Maximum (Bits)	6.93	6.95
Absolute Sensitivity Threshold (γ)	4.83	5.49
Absolute Sensitivity Threshold (e-)	3.80	3.79
Saturation Capacity (Well Depth) (e-)	14837	15279
Saturation Capacity (Well Depth) (γ)	18865	22131
Dynamic Range (dB)	71.84	72.11
Dynamic Range (Bits)	11.93	11.98
Gain (e-/ADU)	0.24	0.24

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