EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY®S

BFS-U3-63S4-BD

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-U3-63S4M-BD	Blackfly S BFS-U3-63S4C-BD
Resolution	3072x2048	3072x2048
Sensor	IMX178 (1/1.8", CMOS, Rolling Shutter)	IMX178 (1/1.8", CMOS, Rolling Shutter)
Pixel Size	2.4	2.4
Firmware Version	1908.0.165.0	1908.0.165.0
ADC Bit Depth	14	14
Quantum Efficiency Mono (% at 525 nm)	74.38	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	61.09
Quantum Efficiency Green (% at 525 nm)	N/A	65.56
Quantum Efficiency Red (% at 630 nm)	N/A	40.77
Temporal Dark Noise (Read Noise) (e-)	2.49	2.44
Temporal Dark Noise (Read Noise) (DN)	10.65	10.50
Signal to Noise Ratio Maximum (dB)	41.61	41.47
Signal to Noise Ratio Maximum (Bits)	6.91	6.89
Absolute Sensitivity Threshold (y)	4.02	4.48
Absolute Sensitivity Threshold (e-)	2.99	2.94
Saturation Capacity (Well Depth) (e-)	14474.70	14038.60
Saturation Capacity (Well Depth) (y)	19459.10	21394.90
Dynamic Range (dB)	73.71	73.59
Dynamic Range (Bits)	12.24	12.22
Gain (e-/ADU)	0.23	0.23

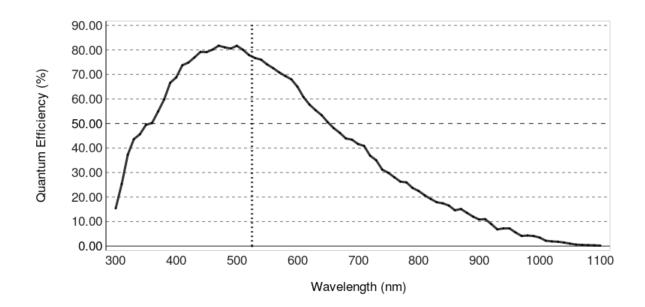
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Blackfly S BFS-U3-63S4M-BD Spectral Response Curve

Blackfly S BFS-U3-63S4C-BD Spectral Response Curve

