

EMVA 1288 IMAGING PERFORMANCE

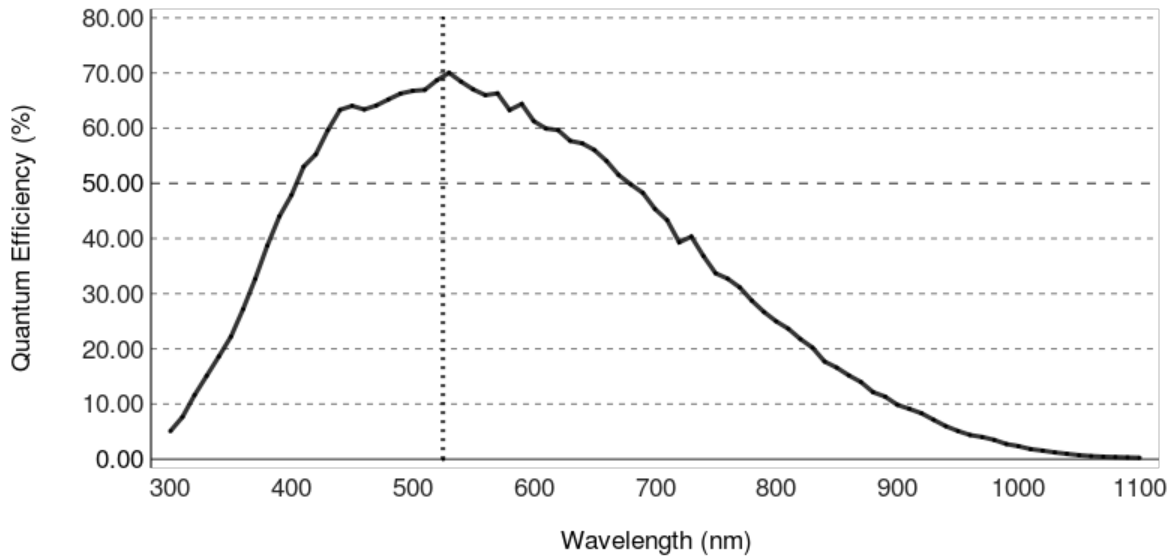
FLIR BLACKFLY[®]S

BFS-U3-31S4-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-U3-31S4M-BD	Blackfly S BFS-U3-31S4C-BD
Resolution	2048x1536	2048x1536
Sensor	IMX265 (CMOS, Global Shutter)	IMX265 (CMOS, Global Shutter)
Pixel Size	3.45	3.45
Firmware Version	2001.0.603.0	2001.0.603.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	66.46	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	48.55
Quantum Efficiency Green (% at 525 nm)	N/A	59.91
Quantum Efficiency Red (% at 630 nm)	N/A	46.45
Temporal Dark Noise (Read Noise) (e-)	2.26	2.27
Temporal Dark Noise (Read Noise) (DN)	13.09	13.19
Signal to Noise Ratio Maximum (dB)	40.43	40.23
Signal to Noise Ratio Maximum (Bits)	6.72	6.68
Absolute Sensitivity Threshold (γ)	4.16	4.64
Absolute Sensitivity Threshold (e-)	2.76	2.77
Saturation Capacity (Well Depth) (e-)	11047.70	10545.40
Saturation Capacity (Well Depth) (γ)	16623.10	17666.00
Dynamic Range (dB)	72.04	71.62
Dynamic Range (Bits)	11.97	11.90
Gain (e-/ADU)	0.17	0.17

Blackfly S BFS-U3-31S4M-BD Spectral Response Curve



Blackfly S BFS-U3-31S4C-BD Spectral Response Curve

