

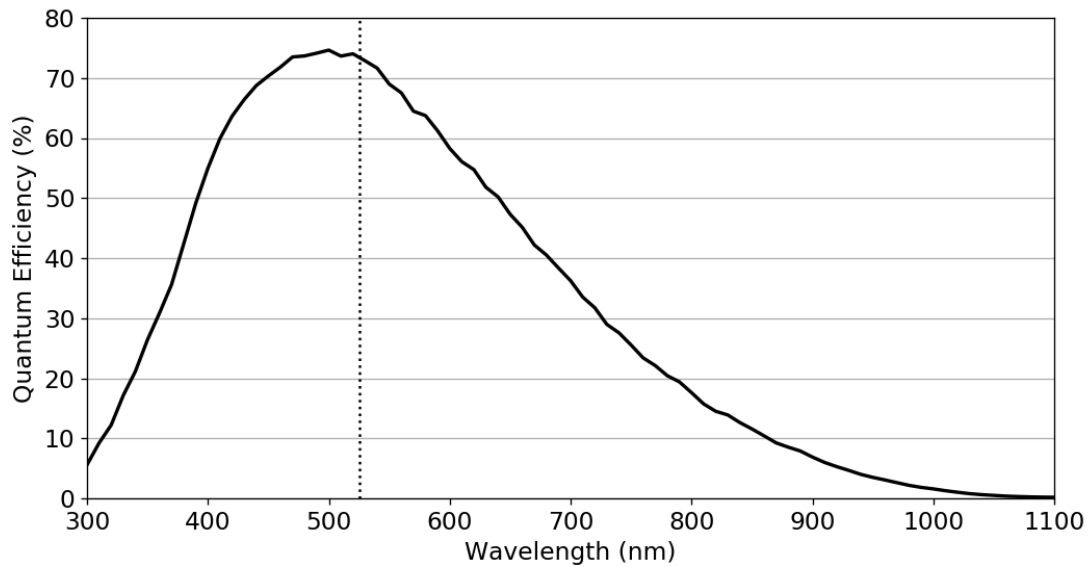
BLACKFLY[®]S

BFS-U3-23S6

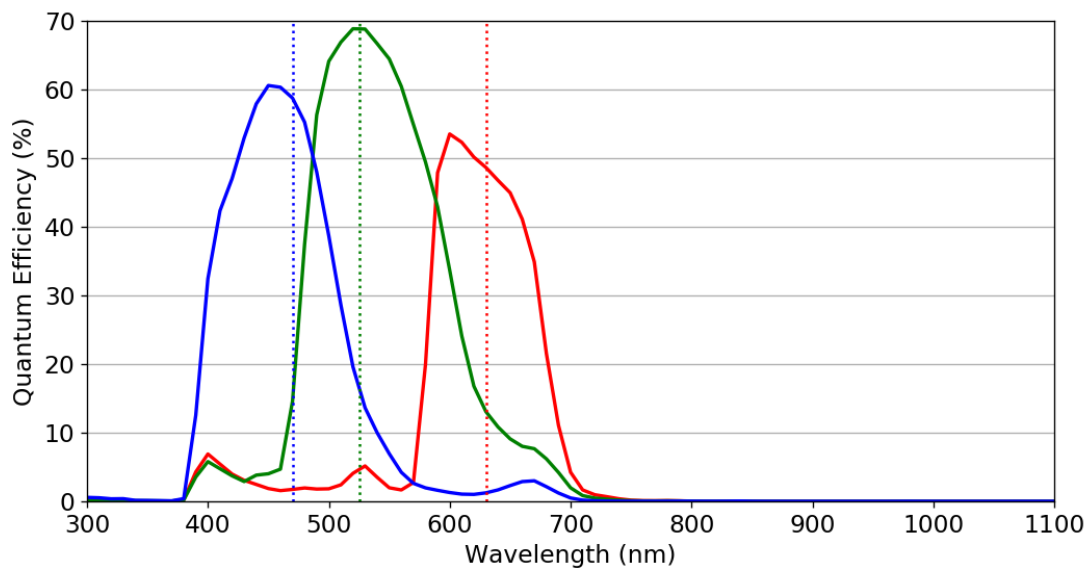
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at [EMVA.org](https://www.emva.org). Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Blackfly S BFS-U3-23S6M	Blackfly S BFS-U3-23S6C
Resolution	1920x1200	1920x1200
Sensor	Sony IMX249, CMOS, 1/1.2	Sony IMX249, CMOS, 1/1.2
Pixel Size (μm)	5.86	5.86
Firmware Version	2402.0.562.0	2402.0.562.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	70.87	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	57.50
Quantum Efficiency Green (% at 525 nm)	N/A	64.66
Quantum Efficiency Red (% at 630 nm)	N/A	40.11
Temporal Dark Noise (Read Noise) (e-)	6.58	6.52
Temporal Dark Noise (Read Noise) (DN)	13.08	13.00
Signal to Noise Ratio Maximum (dB)	45.40	45.45
Signal to Noise Ratio Maximum (Bits)	7.54	7.55
Absolute Sensitivity Threshold (γ)	10.63	11.47
Absolute Sensitivity Threshold (e-)	7.53	7.48
Saturation Capacity (Well Depth) (e-)	34707	35075
Saturation Capacity (Well Depth) (γ)	48974	53773
Dynamic Range (dB)	73.27	73.42
Dynamic Range (Bits)	12.17	12.20
Gain (e-/ADU)	0.54	0.54

Blackfly S BFS-U3-23S6M Spectral Response Curve



Blackfly S BFS-U3-23S6C Spectral Response Curve



3/5/2024

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