

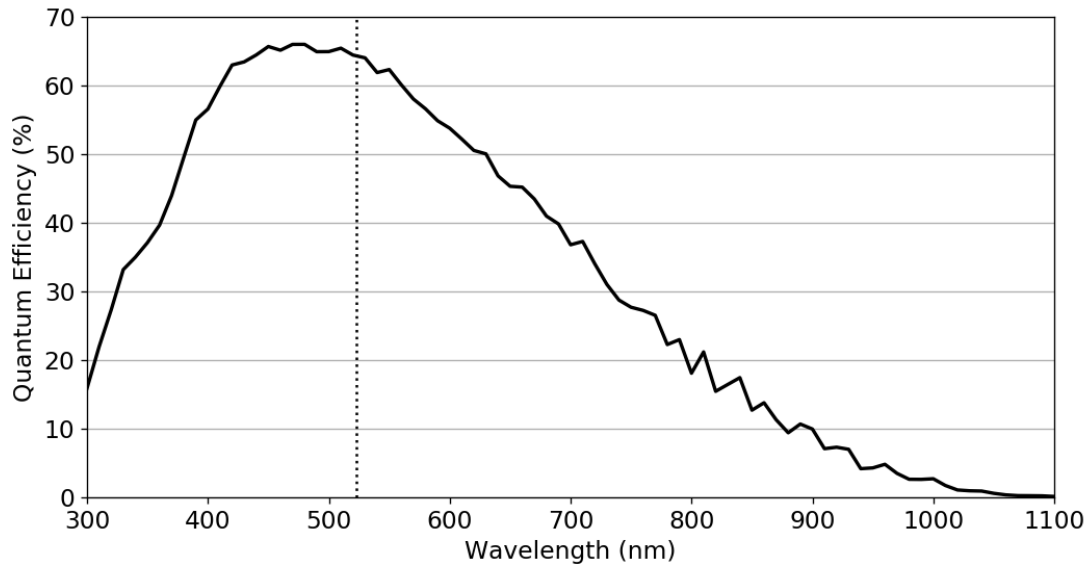
BLACKFLY[®] S CAMERAS

BFS-U3-120S6-BD2

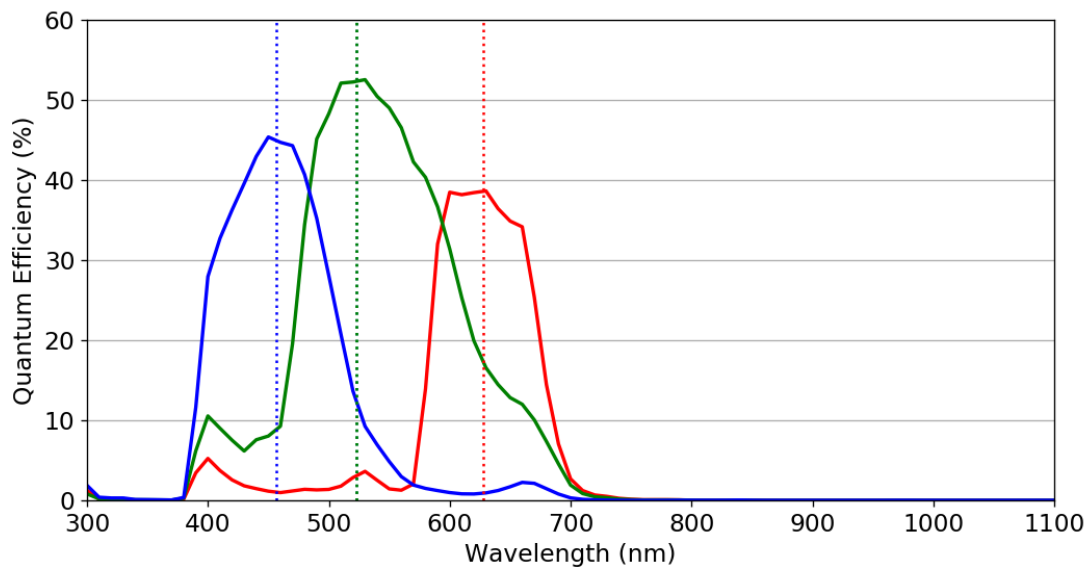
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Blackfly S BFS-U3-120S6M-BD2	Blackfly S BFS-U3-120S6C-BD2
Resolution	4096x3000	4096x3000
Sensor	Sony IMX545, CMOS, 1/1.1	Sony IMX545, CMOS, 1/1.1
Pixel Size (μm)	2.74	2.74
Firmware Version	2510.11.11.0	2510.11.11.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 523 nm)	62.43	N/A
Quantum Efficiency Blue (% at 457 nm)	N/A	42.67
Quantum Efficiency Green (% at 523 nm)	N/A	49.37
Quantum Efficiency Red (% at 628 nm)	N/A	31.60
Temporal Dark Noise (Read Noise) (e-)	2.38	2.34
Temporal Dark Noise (Read Noise) (DN)	16.93	16.85
Signal to Noise Ratio Maximum (dB)	39.65	39.64
Signal to Noise Ratio Maximum (Bits)	6.59	6.58
Absolute Sensitivity Threshold (γ)	4.77	5.95
Absolute Sensitivity Threshold (e-)	2.98	2.93
Saturation Capacity (Well Depth) (e-)	9221	9199
Saturation Capacity (Well Depth) (γ)	14769	18653
Dynamic Range (dB)	69.82	69.93
Dynamic Range (Bits)	11.60	11.62
Gain (e-/ADU)	0.15	0.14

Blackfly S BFS-U3-120S6M-BD2 Spectral Response Curve



Blackfly S BFS-U3-120S6C-BD2 Spectral Response Curve



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