

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-U3-04S2

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-U3-04S2M	Blackfly S BFS-U3-04S2C
Resolution	720x540	720x540
Sensor	Sony IMX287, CMOS, 1/2.9	Sony IMX287, CMOS, 1/2.9
Pixel Size (µm)	6.9	6.9
Firmware Version	1707.1.6.0	1707.1.6.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	61.82	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	49.86
Quantum Efficiency Green (% at 525 nm)	N/A	57.00
Quantum Efficiency Red (% at 630 nm)	N/A	45.11
Temporal Dark Noise (Read Noise) (e-)	3.71	3.80
Temporal Dark Noise (Read Noise) (DN)	10.71	10.82
Signal to Noise Ratio Maximum (dB)	43.46	43.51
Signal to Noise Ratio Maximum (Bits)	7.22	7.23
Absolute Sensitivity Threshold (γ)	6.81	7.55
Absolute Sensitivity Threshold (e-)	4.21	4.30
Saturation Capacity (Well Depth) (e-)	22187	22436
Saturation Capacity (Well Depth) (γ)	35889	39391
Dynamic Range (dB)	74.43	74.35
Dynamic Range (Bits)	12.36	12.35
Gain (e-/ADU)	0.35	0.35

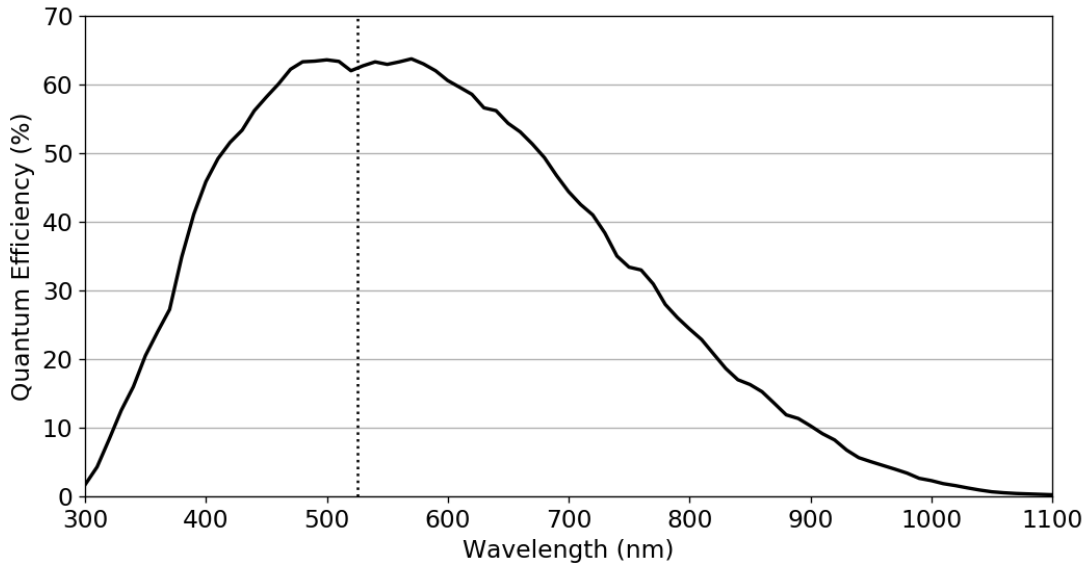
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Blackfly S BFS-U3-04S2M Spectral Response Curve



Blackfly S BFS-U3-04S2C Spectral Response Curve

