EMVA 1288 IMAGING PERFORMANCE

BLACKFLY®S
BFS-PGE-120S6

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).
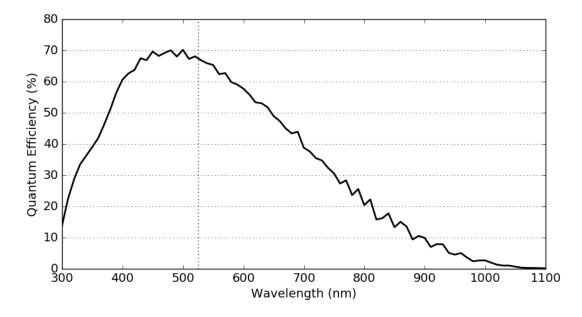
	Blackfly S BFS-PGE-120S6M	Blackfly S BFS-PGE-120S6C
Resolution	4096x3000	4096x3000
Sensor	Sony IMX545, CMOS, 1/1.1	Sony IMX545, CMOS, 1/1.1
Pixel Size (μm)	2.74	2.74
Firmware Version	2201.1.19.0	2201.1.19.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	65.75	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	45.39
Quantum Efficiency Green (% at 525 nm)	N/A	51.83
Quantum Efficiency Red (% at 630 nm)	N/A	33.29
Temporal Dark Noise (Read Noise) (e-)	2.44	2.51
Temporal Dark Noise (Read Noise) (DN)	16.67	16.78
Signal to Noise Ratio Maximum (dB)	39.58	39.78
Signal to Noise Ratio Maximum (Bits)	6.57	6.61
Absolute Sensitivity Threshold (γ)	4.46	5.83
Absolute Sensitivity Threshold (e-)	2.94	3.01
Saturation Capacity (Well Depth) (e-)	9086	9515
Saturation Capacity (Well Depth) (γ)	13818	18411
Dynamic Range (dB)	69.81	69.99
Dynamic Range (Bits)	11.60	11.62
Gain (e-/ADU)	0.15	0.15

TELEDYNE FLIR
Everywhere**you**look™

Blackfly S BFS-PGE-120S6M Spectral Response Curve

Blackfly S BFS-PGE-120S6C Spectral Response Curve