

# EMVA 1288 IMAGING PERFORMANCE

# BLACKFLY<sup>®</sup>S

## BFS-PGE-120S4

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-120S4M	Blackfly S BFS-PGE-120S4C
<b>Resolution</b>	4000x3000	4000x3000
<b>Sensor</b>	Sony IMX226, CMOS, 1/1.7	Sony IMX226, CMOS, 1/1.7
<b>Pixel Size (µm)</b>	1.85	1.85
<b>Firmware Version</b>	2209.0.185.0	2209.0.185.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	76.29	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	60.02
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	65.21
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	39.01
<b>Temporal Dark Noise (Read Noise) (e-)</b>	3.12	3.13
<b>Temporal Dark Noise (Read Noise) (DN)</b>	18.18	18.26
<b>Signal to Noise Ratio Maximum (dB)</b>	40.51	40.53
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.73	6.73
<b>Absolute Sensitivity Threshold (γ)</b>	4.88	5.71
<b>Absolute Sensitivity Threshold (e-)</b>	3.72	3.73
<b>Saturation Capacity (Well Depth) (e-)</b>	11252	11307
<b>Saturation Capacity (Well Depth) (γ)</b>	14749	17304
<b>Dynamic Range (dB)</b>	69.60	69.63
<b>Dynamic Range (Bits)</b>	11.56	11.56
<b>Gain (e-/ADU)</b>	0.18	0.18

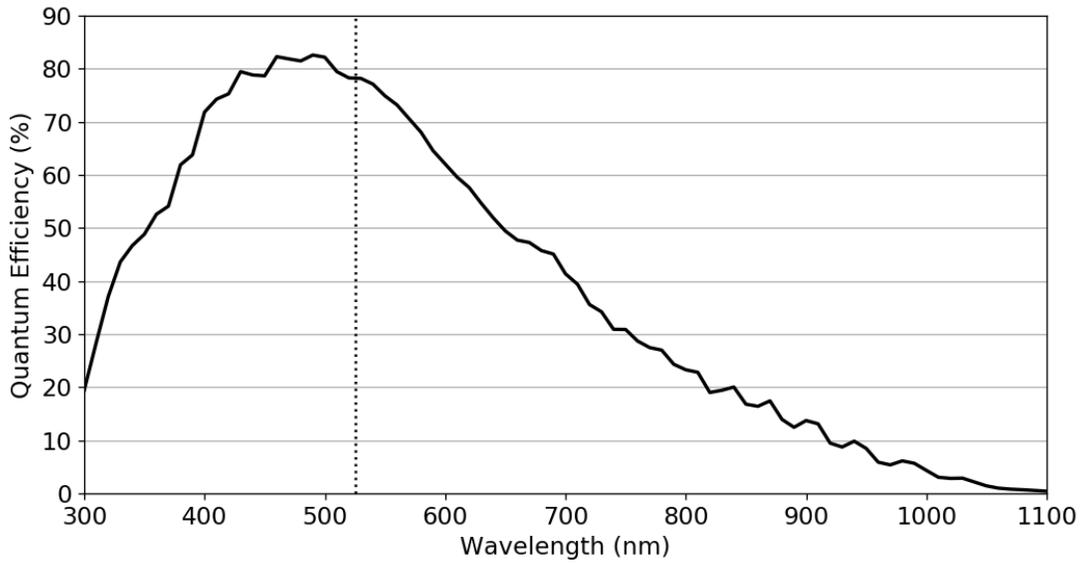
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### Blackfly S BFS-PGE-120S4M Spectral Response Curve



### Blackfly S BFS-PGE-120S4C Spectral Response Curve

