

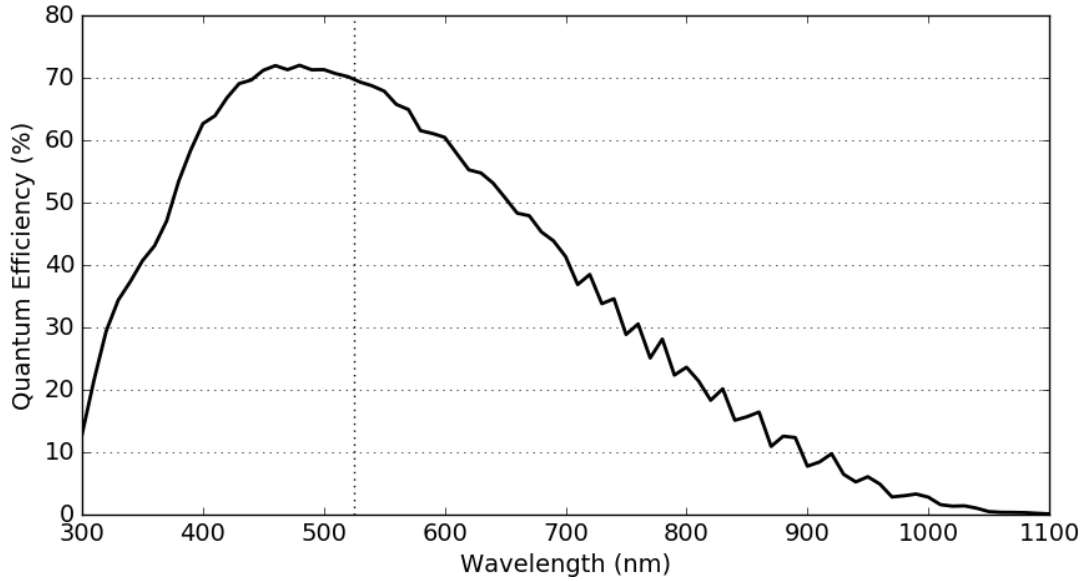
# EMVA 1288 IMAGING PERFORMANCE

## FLIR **BLACKFLY<sup>®</sup>S** BFS-PGE-50S4

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-50S4M	Blackfly S BFS-PGE-50S4C
<b>Resolution</b>	2448x2048	2448x2048
<b>Sensor</b>	Sony IMX547, CMOS, 1/1.8	Sony IMX547, CMOS, 1/1.8
<b>Pixel Size (µm)</b>	2.74	2.74
<b>Firmware Version</b>	2106.0.146.0	2106.0.146.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	67.99	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	46.15
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	52.87
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	32.90
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.49	2.54
<b>Temporal Dark Noise (Read Noise) (DN)</b>	16.18	16.34
<b>Signal to Noise Ratio Maximum (dB)</b>	39.89	39.89
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.63	6.63
<b>Absolute Sensitivity Threshold (γ)</b>	4.40	5.75
<b>Absolute Sensitivity Threshold (e-)</b>	2.99	3.04
<b>Saturation Capacity (Well Depth) (e-)</b>	9748	9749
<b>Saturation Capacity (Well Depth) (γ)</b>	14337	18466
<b>Dynamic Range (dB)</b>	70.26	70.14
<b>Dynamic Range (Bits)</b>	11.67	11.65
<b>Gain (e-/ADU)</b>	0.15	0.16

## Blackfly S BFS-PGE-50S4M Spectral Response Curve



## Blackfly S BFS-PGE-50S4C Spectral Response Curve

