

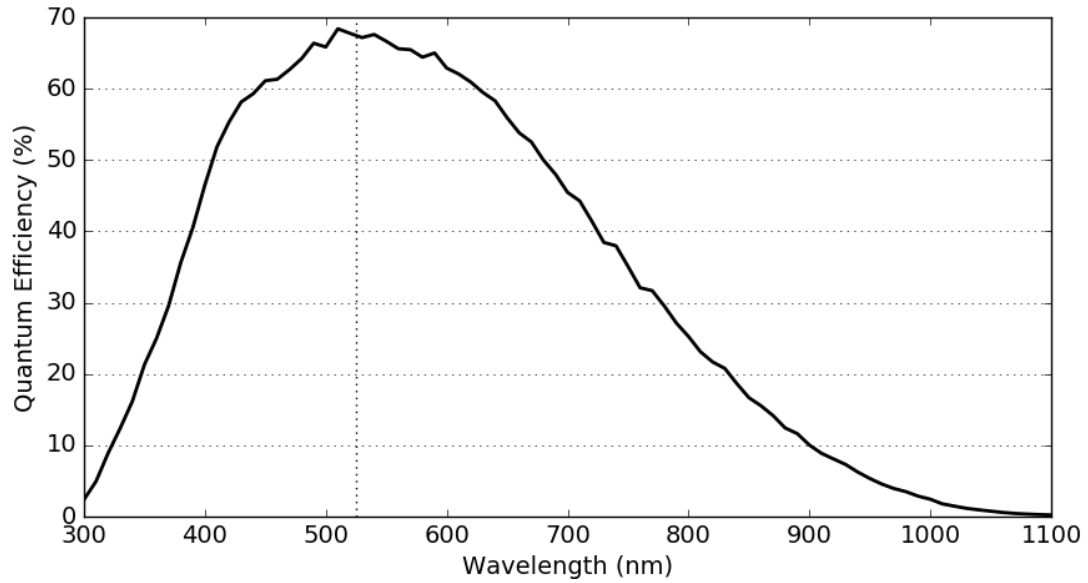
# EMVA 1288 IMAGING PERFORMANCE

## FLIR **BLACKFLY<sup>®</sup>S** BFS-PGE-50S5

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-50S5M	Blackfly S BFS-PGE-50S5C
<b>Resolution</b>	2448x2048	2448x2048
<b>Sensor</b>	Sony IMX264, CMOS, 2/3	Sony IMX264, CMOS, 2/3
<b>Pixel Size (µm)</b>	3.45	3.45
<b>Firmware Version</b>	2103.0.112.0	2103.0.112.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	66.08	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	49.06
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	59.02
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	46.09
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.35	2.33
<b>Temporal Dark Noise (Read Noise) (DN)</b>	13.42	13.66
<b>Signal to Noise Ratio Maximum (dB)</b>	40.52	40.29
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.73	6.69
<b>Absolute Sensitivity Threshold (γ)</b>	4.32	4.81
<b>Absolute Sensitivity Threshold (e-)</b>	2.85	2.83
<b>Saturation Capacity (Well Depth) (e-)</b>	11278	10693
<b>Saturation Capacity (Well Depth) (γ)</b>	17068	18188
<b>Dynamic Range (dB)</b>	71.93	71.56
<b>Dynamic Range (Bits)</b>	11.95	11.89
<b>Gain (e-/ADU)</b>	0.18	0.17

## Blackfly S BFS-PGE-50S5M Spectral Response Curve



## Blackfly S BFS-PGE-50S5C Spectral Response Curve

