

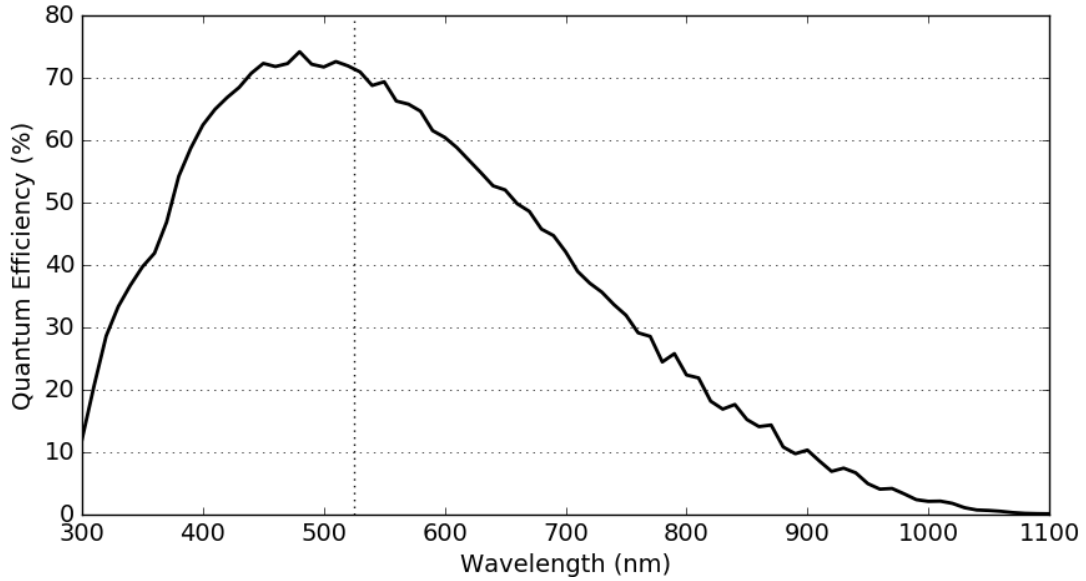
# EMVA 1288 IMAGING PERFORMANCE

## FLIR **BLACKFLY**<sup>®</sup>S BFS-PGE-161S7

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-161S7M	Blackfly S BFS-PGE-161S7C
<b>Resolution</b>	5320x3032	5320x3032
<b>Sensor</b>	Sony IMX542, CMOS, 1.1	Sony IMX542, CMOS, 1.1
<b>Pixel Size (µm)</b>	2.74	2.74
<b>Firmware Version</b>	2011.4.31.0	2011.4.31.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	69.26	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	45.76
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	52.26
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	33.49
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.34	2.38
<b>Temporal Dark Noise (Read Noise) (DN)</b>	15.51	15.54
<b>Signal to Noise Ratio Maximum (dB)</b>	39.81	39.83
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.61	6.62
<b>Absolute Sensitivity Threshold (γ)</b>	4.10	5.52
<b>Absolute Sensitivity Threshold (e-)</b>	2.84	2.88
<b>Saturation Capacity (Well Depth) (e-)</b>	9562	9609
<b>Saturation Capacity (Well Depth) (γ)</b>	13806	18428
<b>Dynamic Range (dB)</b>	70.55	70.46
<b>Dynamic Range (Bits)</b>	11.72	11.70
<b>Gain (e-/ADU)</b>	0.15	0.15

## Blackfly S BFS-PGE-161S7M Spectral Response Curve



## Blackfly S BFS-PGE-161S7C Spectral Response Curve

