

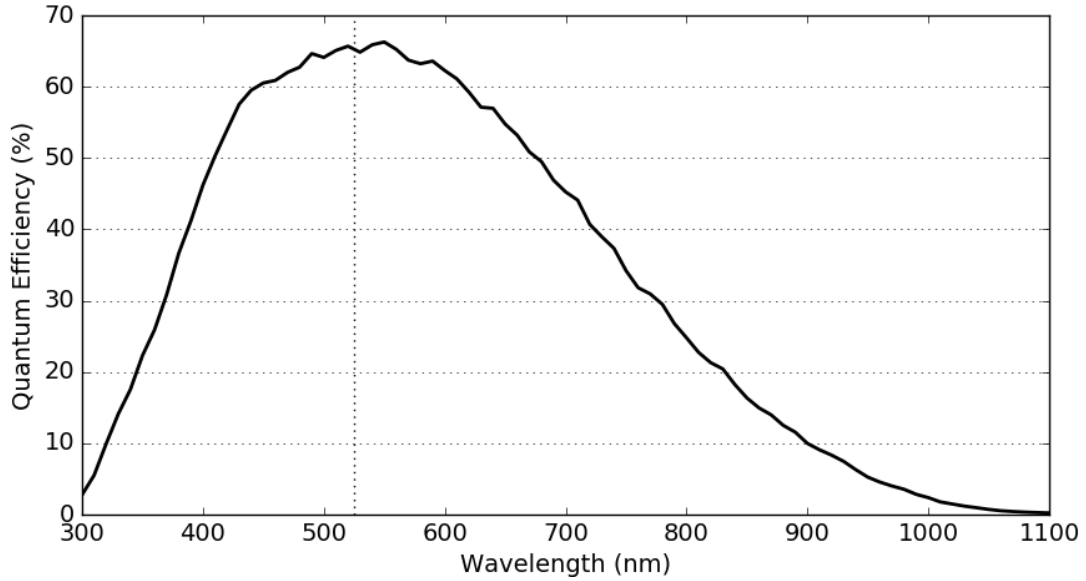
# EMVA 1288 IMAGING PERFORMANCE

## FLIR **BLACKFLY<sup>®</sup>S** BFS-PGE-23S3

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-23S3M	Blackfly S BFS-PGE-23S3C
<b>Resolution</b>	1920x1200	1920x1200
<b>Sensor</b>	Sony IMX392, CMOS, 1/2.3	Sony IMX392, CMOS, 1/2.3
<b>Pixel Size (µm)</b>	3.45	3.45
<b>Firmware Version</b>	2103.0.335.0	2103.0.335.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	64.61	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	49.01
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	59.13
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	45.89
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.35	2.32
<b>Temporal Dark Noise (Read Noise) (DN)</b>	13.54	13.52
<b>Signal to Noise Ratio Maximum (dB)</b>	40.43	40.41
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.71	6.71
<b>Absolute Sensitivity Threshold (γ)</b>	4.41	4.80
<b>Absolute Sensitivity Threshold (e-)</b>	2.85	2.82
<b>Saturation Capacity (Well Depth) (e-)</b>	11031	10987
<b>Saturation Capacity (Well Depth) (γ)</b>	17073	18730
<b>Dynamic Range (dB)</b>	71.75	71.82
<b>Dynamic Range (Bits)</b>	11.92	11.93
<b>Gain (e-/ADU)</b>	0.17	0.17

## Blackfly S BFS-PGE-23S3M Spectral Response Curve



## Blackfly S BFS-PGE-23S3C Spectral Response Curve

