

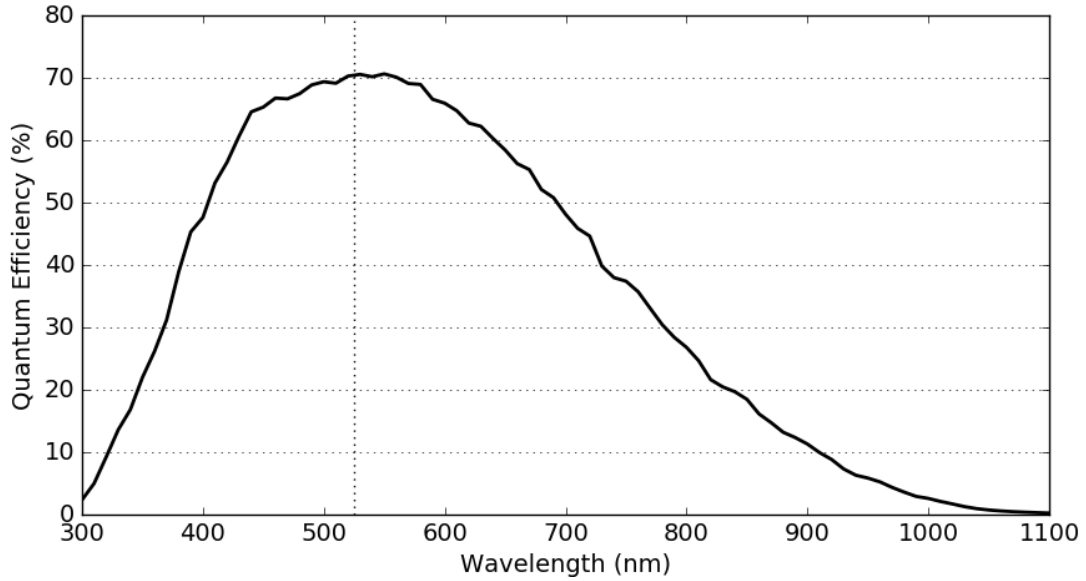
# BLACKFLY<sup>®</sup>S

## BFS-PGE-16S2

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-16S2M	Blackfly S BFS-PGE-16S2C
<b>Resolution</b>	1440x1080	1440x1080
<b>Sensor</b>	Sony IMX273, CMOS, 1/2.9	Sony IMX273, CMOS, 1/2.9
<b>Pixel Size (µm)</b>	3.45	3.45
<b>Firmware Version</b>	2103.0.146.0	2103.0.146.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	69.01	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	52.52
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	63.03
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	49.49
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.50	2.44
<b>Temporal Dark Noise (Read Noise) (DN)</b>	14.25	14.12
<b>Signal to Noise Ratio Maximum (dB)</b>	40.32	40.45
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.70	6.72
<b>Absolute Sensitivity Threshold (γ)</b>	4.34	4.67
<b>Absolute Sensitivity Threshold (e-)</b>	3.00	2.94
<b>Saturation Capacity (Well Depth) (e-)</b>	10754	11081
<b>Saturation Capacity (Well Depth) (γ)</b>	15585	17618
<b>Dynamic Range (dB)</b>	71.10	71.53
<b>Dynamic Range (Bits)</b>	11.81	11.88
<b>Gain (e-/ADU)</b>	0.18	0.17

### Blackfly S BFS-PGE-16S2M Spectral Response Curve



### Blackfly S BFS-PGE-16S2C Spectral Response Curve

