

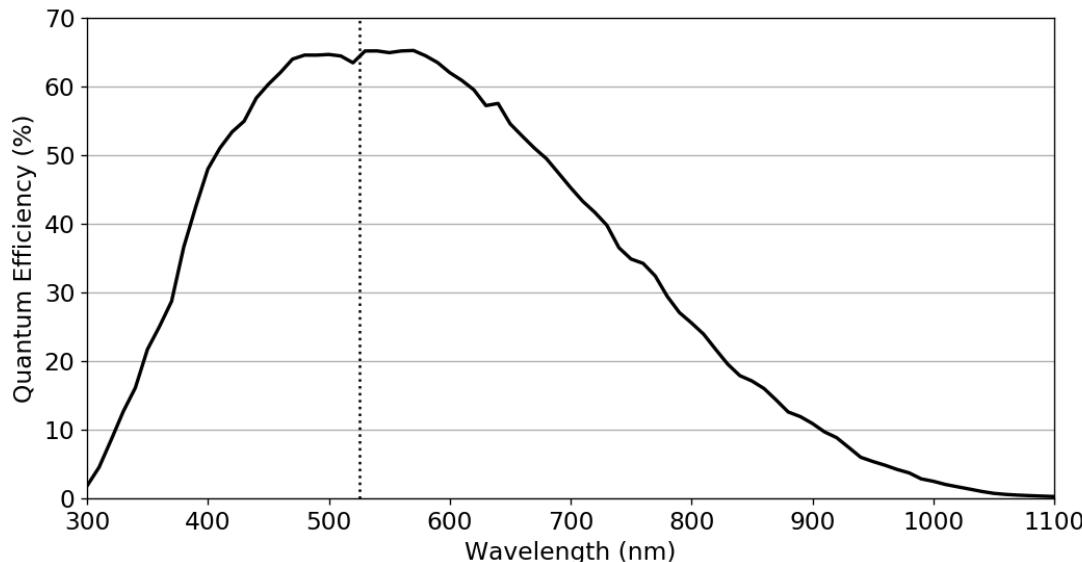
# BLACKFLY®S

## BFS-U3-16S2

Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at [EMVA.org](http://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-U3-16S2M	Blackfly S BFS-U3-16S2C
<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>	1707.0.98.0	1707.0.98.0
<b>ADC Bit Depth</b>	10	10
<b>Quantum Efficiency Mono (% at 525 nm)</b>	63.86	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	47.72
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	58.84
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	46.76
<b>Temporal Dark Noise (Read Noise) (e-)</b>	4.98	4.90
<b>Temporal Dark Noise (Read Noise) (DN)</b>	28.96	29.13
<b>Signal to Noise Ratio Maximum (dB)</b>	40.28	40.18
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.69	6.67
<b>Absolute Sensitivity Threshold (y)</b>	8.59	9.18
<b>Absolute Sensitivity Threshold (e-)</b>	5.48	5.40
<b>Saturation Capacity (Well Depth) (e-)</b>	10662	10419
<b>Saturation Capacity (Well Depth) (y)</b>	16695	17728
<b>Dynamic Range (dB)</b>	65.78	65.71
<b>Dynamic Range (Bits)</b>	10.93	10.91
<b>Gain (e-/ADU)</b>	0.17	0.17

## Blackfly S BFS-U3-16S2M Spectral Response Curve



## Blackfly S BFS-U3-16S2C Spectral Response Curve

