

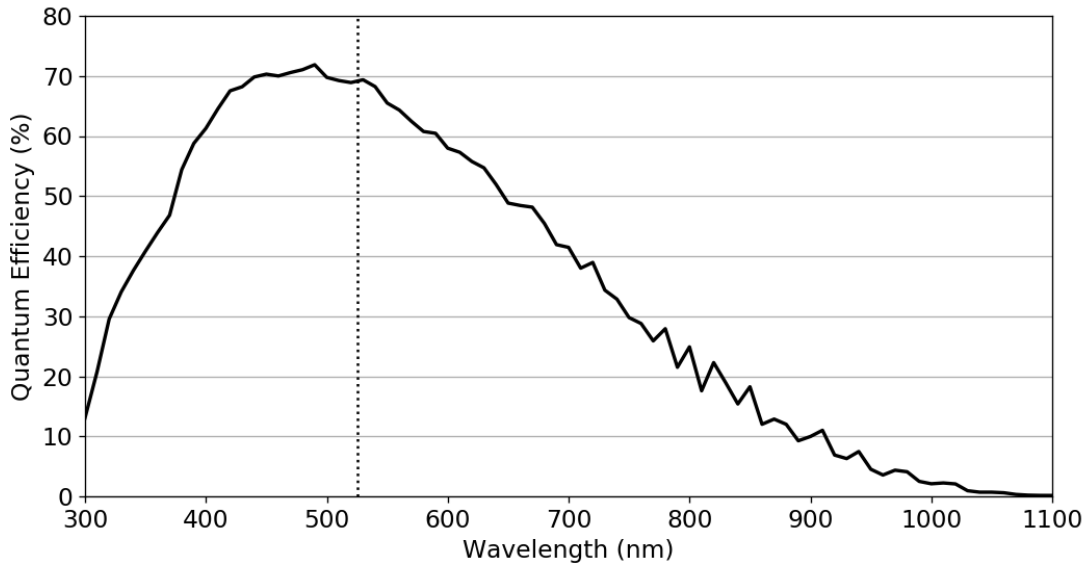
# BLACKFLY<sup>®</sup>S

## BFS-U3-80S5

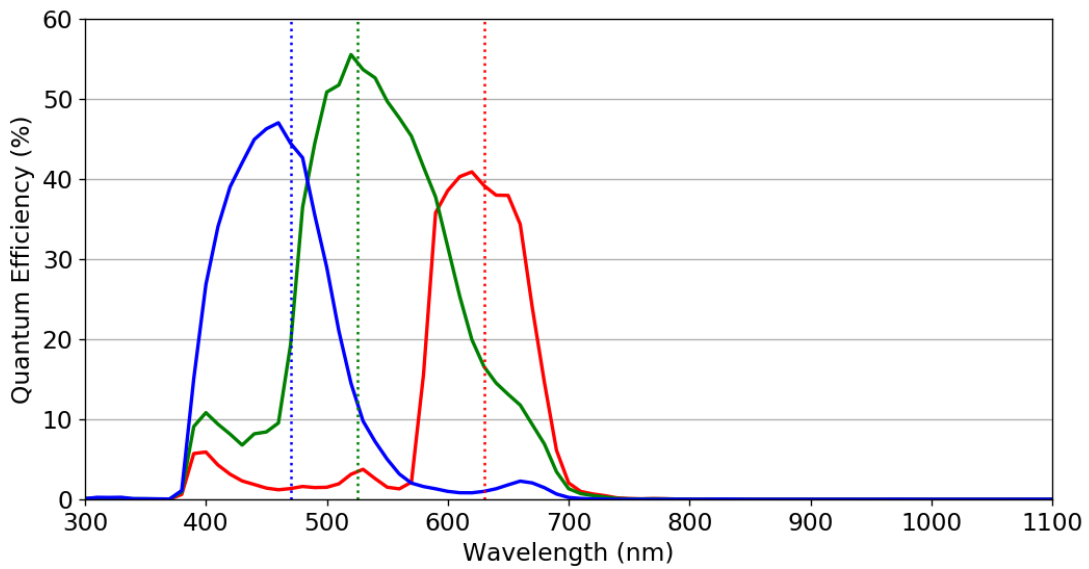
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Blackfly S BFS-U3-80S5M	Blackfly S BFS-U3-80S5C
<b>Resolution</b>	2840x2840	2840x2840
<b>Sensor</b>	Sony IMX546, CMOS, 2/3	Sony IMX546, CMOS, 2/3
<b>Pixel Size (µm)</b>	2.74	2.74
<b>Firmware Version</b>	2211.2.8.0	2211.2.8.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	67.19	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	44.50
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	50.95
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	32.64
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.48	2.53
<b>Temporal Dark Noise (Read Noise) (DN)</b>	16.93	17.15
<b>Signal to Noise Ratio Maximum (dB)</b>	39.84	39.87
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.62	6.62
<b>Absolute Sensitivity Threshold (γ)</b>	4.59	6.16
<b>Absolute Sensitivity Threshold (e-)</b>	3.08	3.13
<b>Saturation Capacity (Well Depth) (e-)</b>	9638	9694
<b>Saturation Capacity (Well Depth) (γ)</b>	14344	19061
<b>Dynamic Range (dB)</b>	69.90	69.82
<b>Dynamic Range (Bits)</b>	11.61	11.60
<b>Gain (e-/ADU)</b>	0.15	0.15

### Blackfly S BFS-U3-80S5M Spectral Response Curve



### Blackfly S BFS-U3-80S5C Spectral Response Curve



2/14/2023

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Integrated Imaging Solutions Inc. and/or its subsidiaries.

© 2016-2023 FLIR Integrated Imaging Solutions Inc. All rights reserved.