

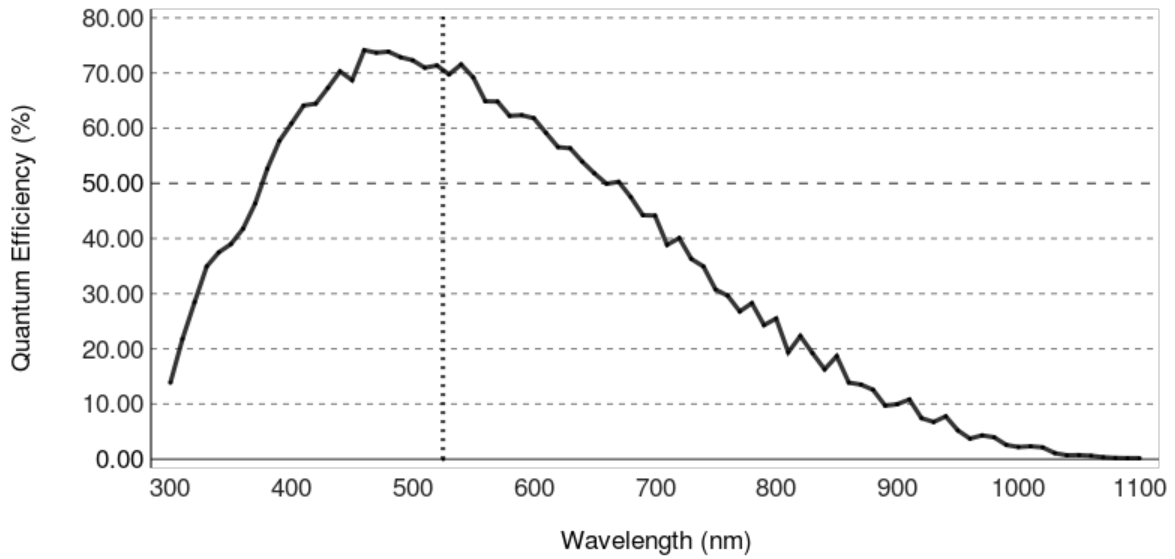
# EMVA 1288 IMAGING PERFORMANCE

## FLIR **BLACKFLY**<sup>®</sup>S BFS-U3-244S8

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-U3-244S8M	Blackfly S BFS-U3-244S8C
<b>Resolution</b>	5320x4600	5320x4600
<b>Sensor</b>	Sony IMX540, CMOS, 4/3	Sony IMX540, CMOS, 4/3
<b>Pixel Size</b>	2.74	2.74
<b>Firmware Version</b>	2006.0.64.0	2006.0.64.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	69.33	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	47.48
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	53.99
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	35.39
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.31	2.31
<b>Temporal Dark Noise (Read Noise) (DN)</b>	15.20	15.03
<b>Signal to Noise Ratio Maximum (dB)</b>	39.84	39.84
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.62	6.62
<b>Absolute Sensitivity Threshold (<math>\gamma</math>)</b>	4.05	5.22
<b>Absolute Sensitivity Threshold (e-)</b>	2.81	2.81
<b>Saturation Capacity (Well Depth) (e-)</b>	9648	9636
<b>Saturation Capacity (Well Depth) (<math>\gamma</math>)</b>	13916	17886
<b>Dynamic Range (dB)</b>	70.73	70.69
<b>Dynamic Range (Bits)</b>	11.75	11.74
<b>Gain (e-/ADU)</b>	0.15	0.15

### Blackfly S BFS-U3-244S8M Spectral Response Curve



### Blackfly S BFS-U3-244S8C Spectral Response Curve

