

# EMVA 1288 IMAGING PERFORMANCE

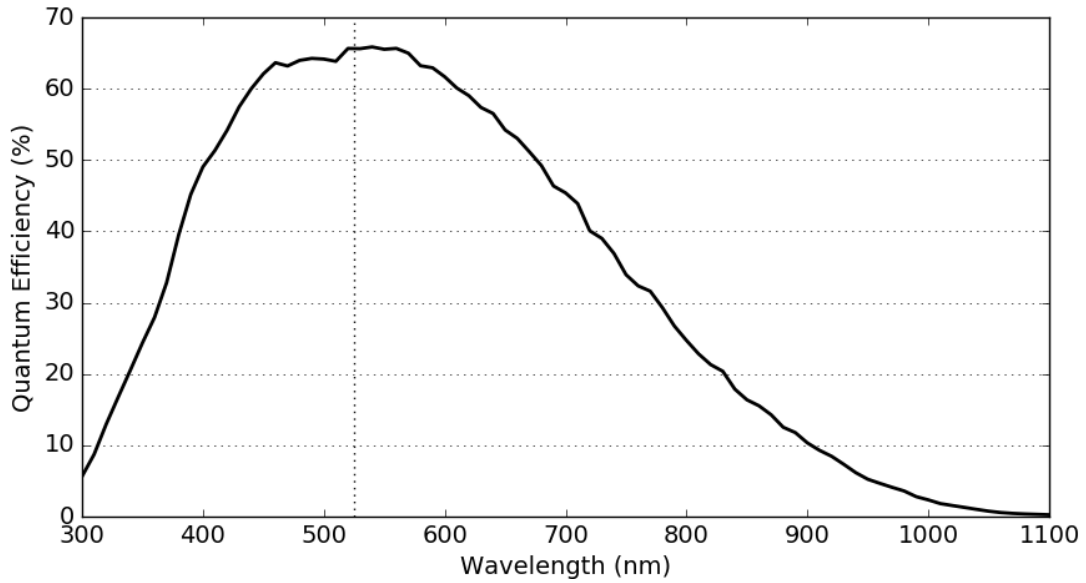
FLIR **FIREFLY**<sup>®</sup>

**FFY-U3-16S2**

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).

	Firefly FFY-U3-16S2M	Firefly FFY-U3-16S2C
<b>Resolution</b>	1440x1080	1440x1080
<b>Sensor</b>	Sony IMX296, CMOS, 1/2.9	Sony IMX296, CMOS, 1/2.9
<b>Pixel Size (µm)</b>	3.45	3.45
<b>Firmware Version</b>	2106.0.17.0	2106.0.17.0
<b>ADC Bit Depth</b>	10	10
<b>Quantum Efficiency Mono (% at 525 nm)</b>	64.29	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	46.47
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	56.73
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	43.74
<b>Temporal Dark Noise (Read Noise) (e-)</b>	4.81	4.93
<b>Temporal Dark Noise (Read Noise) (DN)</b>	0.45	0.46
<b>Signal to Noise Ratio Maximum (dB)</b>	40.27	40.13
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.69	6.67
<b>Absolute Sensitivity Threshold (γ)</b>	8.26	9.57
<b>Absolute Sensitivity Threshold (e-)</b>	5.31	5.43
<b>Saturation Capacity (Well Depth) (e-)</b>	10636	10300
<b>Saturation Capacity (Well Depth) (γ)</b>	16544	18157
<b>Dynamic Range (dB)</b>	66.03	65.56
<b>Dynamic Range (Bits)</b>	10.97	10.89
<b>Gain (e-/ADU)</b>	10.78	10.62

## Firefly FFY-U3-16S2M Spectral Response Curve



## Firefly FFY-U3-16S2C Spectral Response Curve

