

# EMVA 1288 IMAGING PERFORMANCE

## FLIR **FIREFLY**<sup>®</sup> FFY-U3-16S2C-DL

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-U3-16S2C-DL

<b>Resolution</b>	1440x1080
<b>Sensor</b>	IMX296 (1/2.9, CMOS, Global Shutter)
<b>Pixel Size</b>	3.45
<b>Firmware Version</b>	1905.4.83.0
<b>ADC Bit Depth</b>	10
<b>Quantum Efficiency Mono (% at 525 nm)</b>	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	47.04
<b>Quantum Efficiency Green (% at 525 nm)</b>	57.43
<b>Quantum Efficiency Red (% at 630 nm)</b>	44.35
<b>Temporal Dark Noise (Read Noise) (e-)</b>	4.93
<b>Temporal Dark Noise (Read Noise) (DN)</b>	0.46
<b>Signal to Noise Ratio Maximum (dB)</b>	40.20
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.68
<b>Absolute Sensitivity Threshold (<math>\gamma</math>)</b>	9.49
<b>Absolute Sensitivity Threshold (e-)</b>	5.43
<b>Saturation Capacity (Well Depth) (e-)</b>	10461.30
<b>Saturation Capacity (Well Depth) (<math>\gamma</math>)</b>	18261.30
<b>Dynamic Range (dB)</b>	65.69
<b>Dynamic Range (Bits)</b>	10.91
<b>Gain (e-/ADU)</b>	10.66

2/26/2020

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

