

EMVA 1288 IMAGING PERFORMANCE

FLIR **FIREFLY**[®] FFY-U3-04S2

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-U3-04S2M	Firefly FFY-U3-04S2C
Resolution	720x540	720x540
Sensor	Sony IMX297, CMOS, 1/2.9	Sony IMX297, CMOS, 1/2.9
Pixel Size (µm)	6.90	6.90
Firmware Version	2101.0.19.0	2101.0.19.0
ADC Bit Depth	10	10
Quantum Efficiency Mono (% at 525 nm)	63.62	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	47.31
Quantum Efficiency Green (% at 525 nm)	N/A	57.17
Quantum Efficiency Red (% at 630 nm)	N/A	44.78
Temporal Dark Noise (Read Noise) (e-)	7.21	7.68
Temporal Dark Noise (Read Noise) (DN)	0.34	0.36
Signal to Noise Ratio Maximum (dB)	43.27	43.23
Signal to Noise Ratio Maximum (Bits)	7.19	7.18
Absolute Sensitivity Threshold (γ)	12.12	14.29
Absolute Sensitivity Threshold (e-)	7.71	8.18
Saturation Capacity (Well Depth) (e-)	21210	21014
Saturation Capacity (Well Depth) (γ)	33337	36711
Dynamic Range (dB)	68.79	68.20
Dynamic Range (Bits)	11.43	11.33
Gain (e-/ADU)	21.11	21.16

2/2/2021

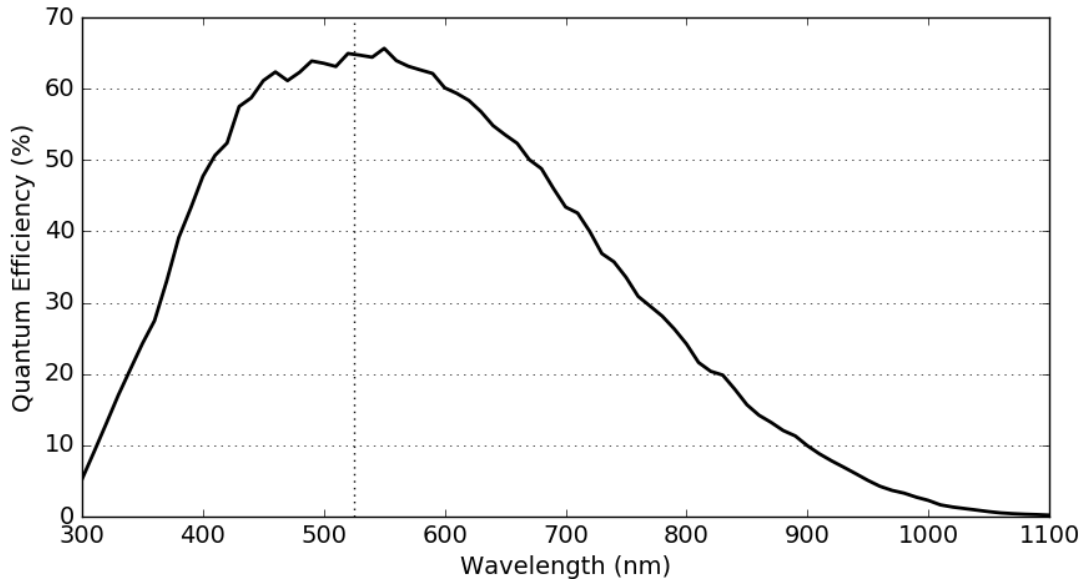
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Firefly FFY-U3-04S2M Spectral Response Curve



Firefly FFY-U3-04S2C Spectral Response Curve

