EMVA 1288 IMAGING PERFORMANCE

FLIR *FIREFLY*®
FFY-U3-04S2M

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

Resolution	720x540
Sensor	IMX297 (1/2.9, CMOS, Global Shutter)
Pixel Size	6.9
Firmware Version	1908.0.31.0
ADC Bit Depth	10
Quantum Efficiency Mono (% at 525 nm)	64.34
Quantum Efficiency Blue (% at 470 nm)	N/A
Quantum Efficiency Green (% at 525 nm)	N/A
Quantum Efficiency Red (% at 630 nm)	N/A
Temporal Dark Noise (Read Noise) (e-)	6.99
Temporal Dark Noise (Read Noise) (DN)	0.33
Signal to Noise Ratio Maximum (dB)	43.21
Signal to Noise Ratio Maximum (Bits)	7.18
Absolute Sensitivity Threshold (γ)	11.64
Absolute Sensitivity Threshold (e-)	7.49
Saturation Capacity (Well Depth) (e-)	20924.80
Saturation Capacity (Well Depth) (γ)	32523.10
Dynamic Range (dB)	68.93
Dynamic Range (Bits)	11.45
Gain (e-/ADU)	21.10

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Firefly FFY-U3-04S2M Spectral Response Curve