

# EMVA 1288 IMAGING PERFORMANCE

# FORGE<sup>®</sup>

## FG-P5G-50S4

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).

	Forge FG-P5G-50S4M	Forge FG-P5G-50S4C
<b>Resolution</b>	2448x2048	2448x2048
<b>Sensor</b>	Sony IMX547, CMOS, 1/1.8	Sony IMX547, CMOS, 1/1.8
<b>Pixel Size (µm)</b>	2.74	2.74
<b>Firmware Version</b>	2110.1.97.0	2110.1.97.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	67.28	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	44.52
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	51.13
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	33.62
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.54	2.49
<b>Temporal Dark Noise (Read Noise) (DN)</b>	17.17	16.84
<b>Signal to Noise Ratio Maximum (dB)</b>	39.86	39.90
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.62	6.63
<b>Absolute Sensitivity Threshold (γ)</b>	4.66	6.06
<b>Absolute Sensitivity Threshold (e-)</b>	3.13	3.09
<b>Saturation Capacity (Well Depth) (e-)</b>	9687	9774
<b>Saturation Capacity (Well Depth) (γ)</b>	14398	19160
<b>Dynamic Range (dB)</b>	69.80	70.00
<b>Dynamic Range (Bits)</b>	11.59	11.63
<b>Gain (e-/ADU)</b>	0.15	0.15

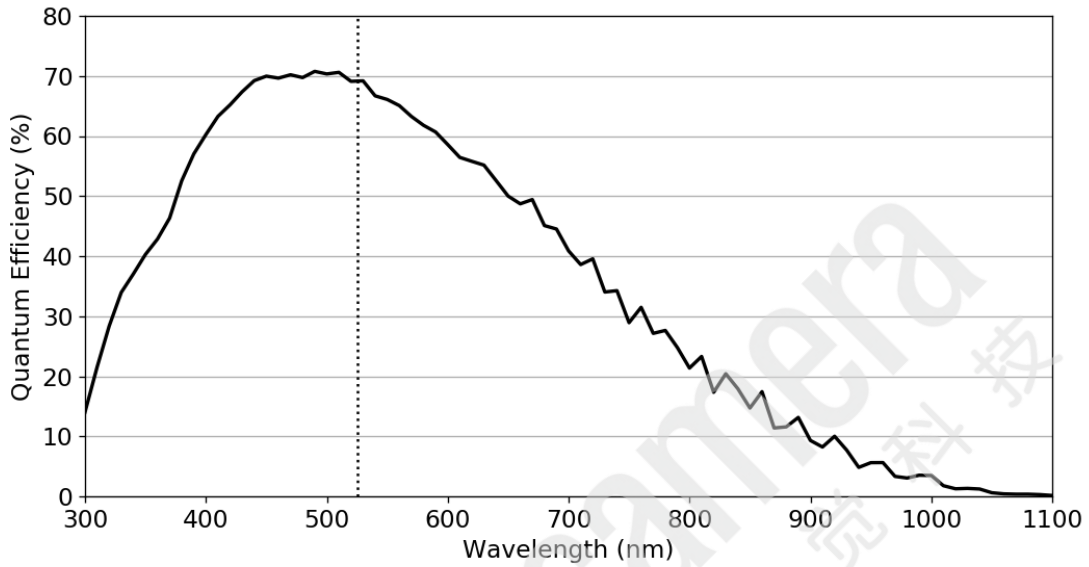
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### Forge FG-P5G-50S4M Spectral Response Curve



### Forge FG-P5G-50S4C Spectral Response Curve

