

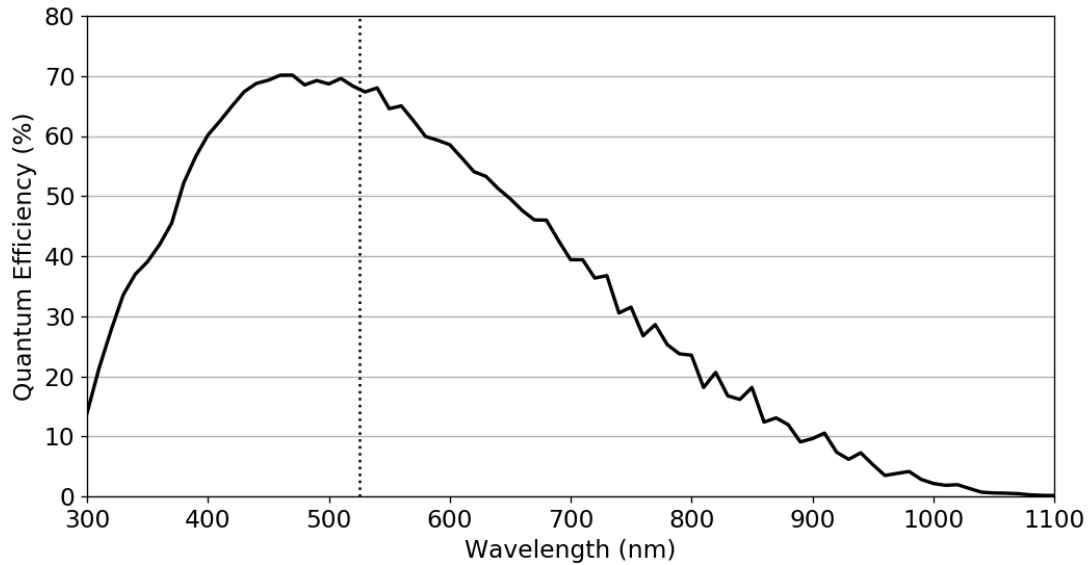
EMVA 1288 IMAGING PERFORMANCE

FORGE[®] FG-P5G-50S4

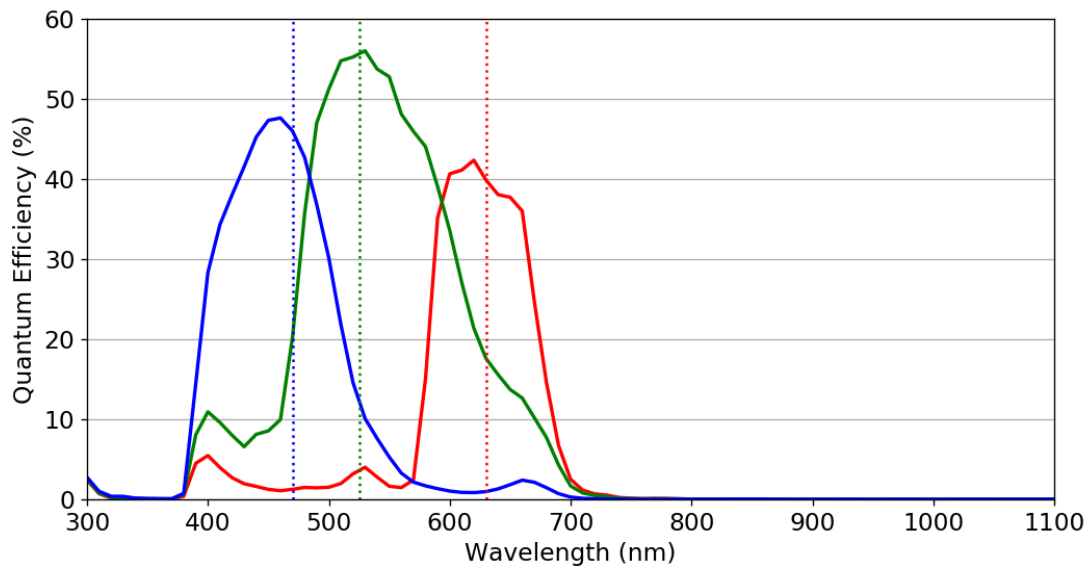
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Forge FG-P5G-50S4M	Forge FG-P5G-50S4C
Resolution	2448x2048	2448x2048
Sensor	Sony IMX547, CMOS, 1/1.8	Sony IMX547, CMOS, 1/1.8
Pixel Size (µm)	2.74	2.74
Firmware Version	2110.1.611.0	2110.1.611.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	66.74	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	45.09
Quantum Efficiency Green (% at 525 nm)	N/A	52.52
Quantum Efficiency Red (% at 630 nm)	N/A	33.35
Temporal Dark Noise (Read Noise) (e-)	2.44	2.44
Temporal Dark Noise (Read Noise) (DN)	16.73	17.14
Signal to Noise Ratio Maximum (dB)	39.75	39.68
Signal to Noise Ratio Maximum (Bits)	6.60	6.59
Absolute Sensitivity Threshold (γ)	4.55	5.79
Absolute Sensitivity Threshold (e-)	3.04	3.04
Saturation Capacity (Well Depth) (e-)	9434	9293
Saturation Capacity (Well Depth) (γ)	14136	17707
Dynamic Range (dB)	69.85	69.71
Dynamic Range (Bits)	11.60	11.58
Gain (e-/ADU)	0.15	0.15

Forge FG-P5G-50S4M Spectral Response Curve



Forge FG-P5G-50S4C Spectral Response Curve



2/7/2024

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Integrated Imaging Solutions Inc. and/or its subsidiaries.

© 2016-2024 FLIR Integrated Imaging Solutions Inc. All rights reserved.