

EMVA 1288 IMAGING PERFORMANCE

ORYX[®] ORX-10GS-51S5

Note: Oryx part numbers with 10G and 10GS are functionally the same and differ only in dimensions and mass.

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).

	ORX-10GS-51S5M	ORX-10GS-51S5C
Resolution	2448x2048	2448x2048
Sensor	Sony IMX250, CMOS, 2/3	Sony IMX250, CMOS, 2/3
Pixel Size (µm)	3.45	3.45
Firmware Version	2306.0.114.0	2306.0.114.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	63.74	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	46.38
Quantum Efficiency Green (% at 525 nm)	N/A	57.82
Quantum Efficiency Red (% at 630 nm)	N/A	45.27
Temporal Dark Noise (Read Noise) (e-)	2.10	2.14
Temporal Dark Noise (Read Noise) (DN)	13.54	13.74
Signal to Noise Ratio Maximum (dB)	40.23	40.21
Signal to Noise Ratio Maximum (Bits)	6.68	6.68
Absolute Sensitivity Threshold (γ)	4.29	4.81
Absolute Sensitivity Threshold (e-)	2.74	2.77
Saturation Capacity (Well Depth) (e-)	10550	10496
Saturation Capacity (Well Depth) (γ)	16550	18217
Dynamic Range (dB)	71.72	71.57
Dynamic Range (Bits)	11.91	11.89
Gain (e-/ADU)	0.17	0.17

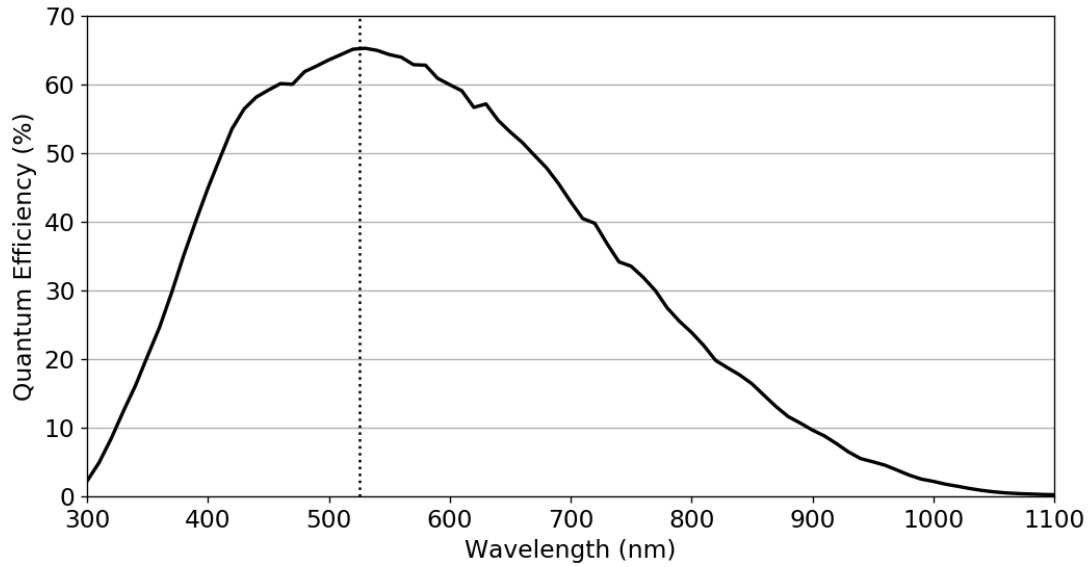
7/4/2023

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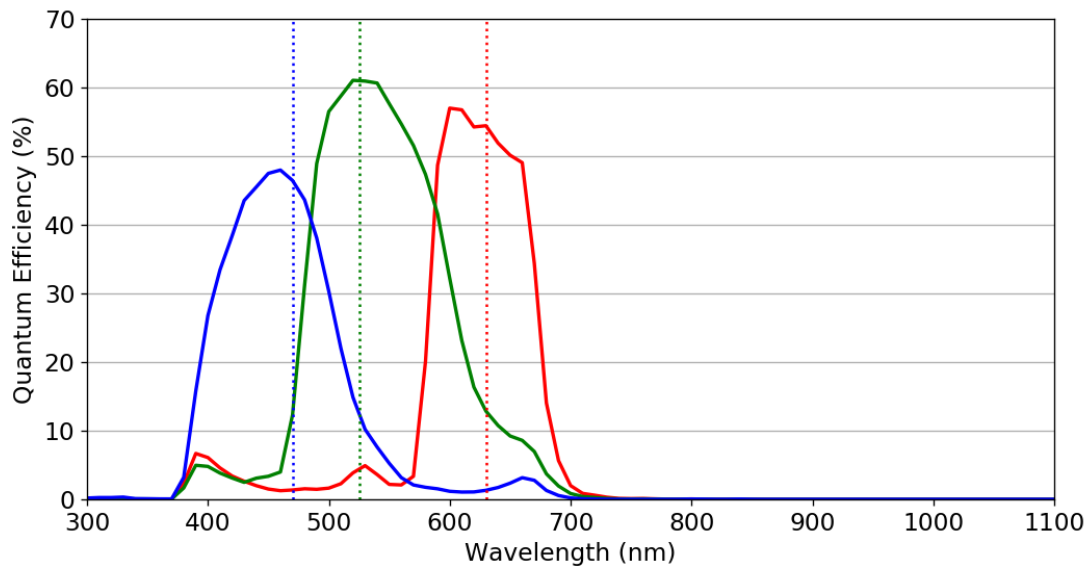
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ORX-10GS-51S5M Spectral Response Curve



ORX-10GS-51S5C Spectral Response Curve



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