EMVA 1288 IMAGING PERFORMANCE

ORYX®

ORX-10G-32S4 / ORX-10GS-32S4

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).

	Oryx ORX-10G-32S4M	Oryx ORX-10G-32S4C
Resolution	2048x1536	2048x1536
Sensor	IMX252 (CMOS, Global Shutter)	IMX252 (CMOS, Global Shutter)
Pixel Size	3.45	3.45
Firmware Version	1907.1.10.0	1907.1.10.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	63.93	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	48.08
Quantum Efficiency Green (% at 525 nm)	N/A	58.93
Quantum Efficiency Red (% at 630 nm)	N/A	44.87
Temporal Dark Noise (Read Noise) (e-)	2.26	2.24
Temporal Dark Noise (Read Noise) (DN)	13.37	13.32
Signal to Noise Ratio Maximum (dB)	40.27	40.33
Signal to Noise Ratio Maximum (Bits)	6.69	6.70
Absolute Sensitivity Threshold (γ)	4.32	4.67
Absolute Sensitivity Threshold (e-)	2.76	2.74
Saturation Capacity (Well Depth) (e-)	10648.50	10787.10
Saturation Capacity (Well Depth) (γ)	16655.90	18340.00
Dynamic Range (dB)	71.72	71.89
Dynamic Range (Bits)	11.91	11.94
Gain (e-/ADU)	0.17	0.17

11/22/2022
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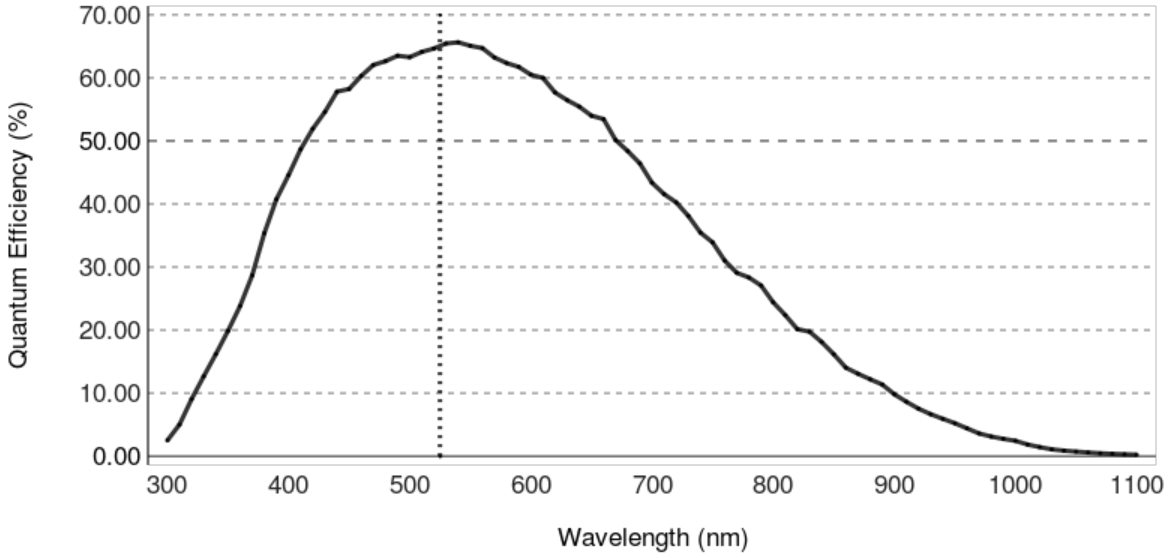
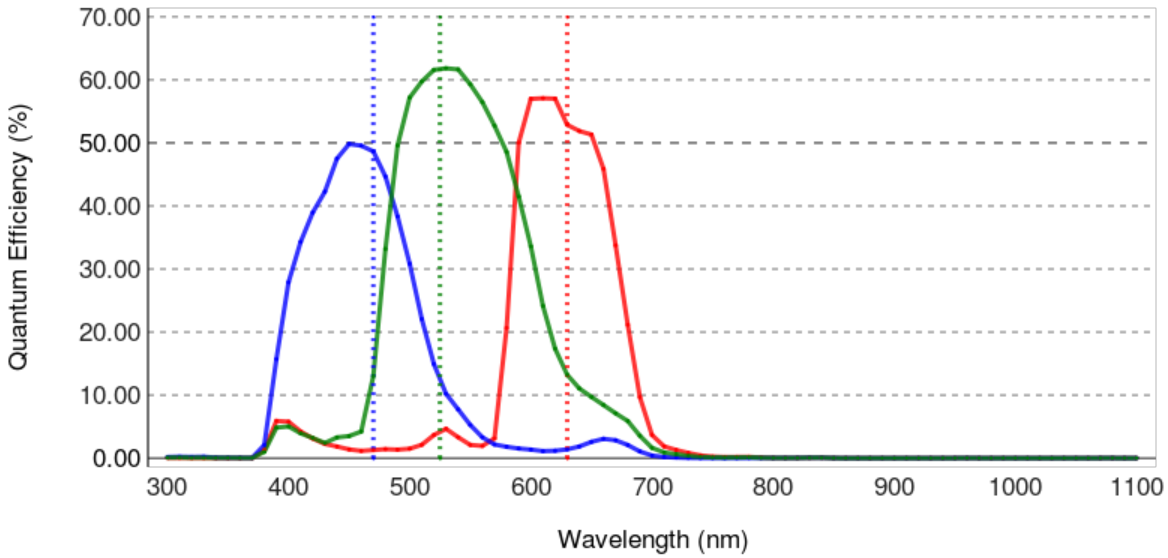
1288
EMVA Standard Compliant

Oryx ORX-10G-32S4M Spectral Response Curve



Oryx ORX-10G-32S4C Spectral Response Curve



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