EMVA 1288 IMAGING PERFORMANCE

ORYX®

ORX-10G-245S8

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-245S8M	Oryx ORX-10G-245S8C
Resolution	5320x4600	5320x4600
Sensor	Sony IMX530, CMOS, 1.2	Sony IMX530, CMOS, 1.2
Pixel Size (µm)	2.74	2.74
Firmware Version	2012.0.37.0	2012.0.37.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	72.09	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	46.50
Quantum Efficiency Green (% at 525 nm)	N/A	52.98
Quantum Efficiency Red (% at 630 nm)	N/A	40.52
Temporal Dark Noise (Read Noise) (e-)	2.29	2.31
Temporal Dark Noise (Read Noise) (DN)	15.36	15.34
Signal to Noise Ratio Maximum (dB)	39.66	39.69
Signal to Noise Ratio Maximum (Bits)	6.59	6.59
Absolute Sensitivity Threshold (γ)	3.87	5.32
Absolute Sensitivity Threshold (e-)	2.79	2.81
Saturation Capacity (Well Depth) (e-)	9239	9308
Saturation Capacity (Well Depth) (γ)	12815	17606
Dynamic Range (dB)	70.40	70.40
Dynamic Range (Bits)	11.69	11.69
Gain (e-/ADU)	0.15	0.15

11/23/2022

TELEDYNE FLIR
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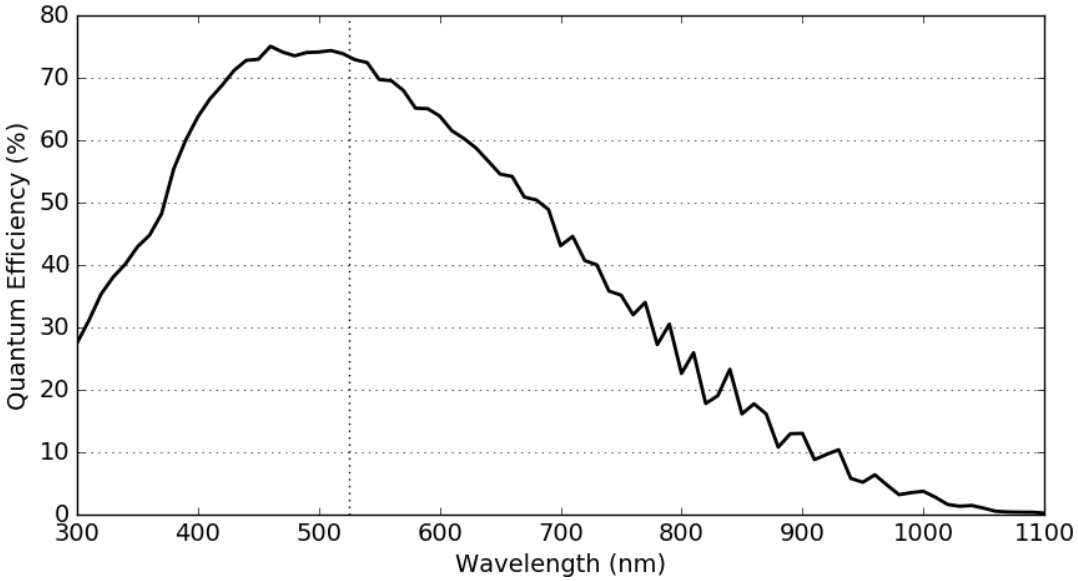
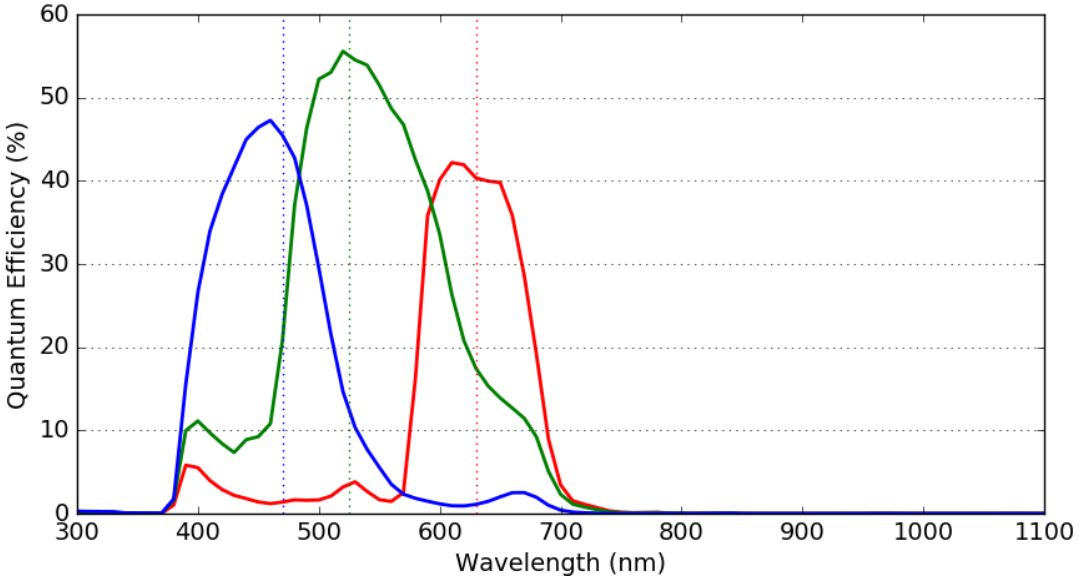
1288
EMVA Standard Compliant

Oryx ORX-10G-245S8M Spectral Response Curve



Oryx ORX-10G-245S8C Spectral Response Curve



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