

# EMVA 1288 IMAGING PERFORMANCE

FLIR **ORYX**<sup>®</sup>

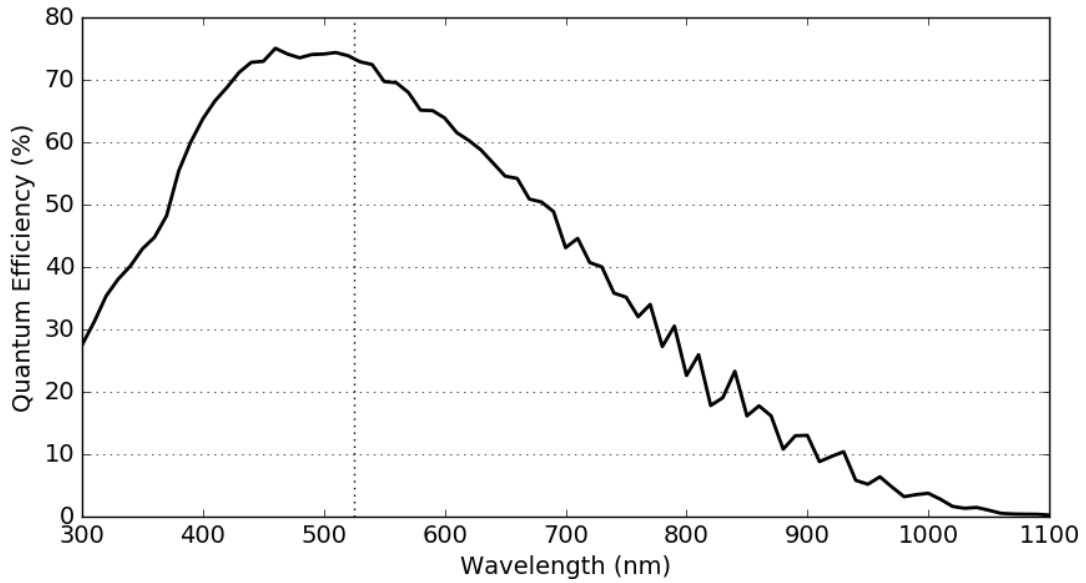
**ORX-10G-245S8**

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

## Oryx ORX-10G-245S8M Spectral Response Curve



## Oryx ORX-10G-245S8C Spectral Response Curve

