

# EMVA 1288 IMAGING PERFORMANCE

# ORYX<sup>®</sup>

## ORX-10G-89S6 / ORX-10GS-89S6

**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-89S6M	Oryx ORX-10G-89S6C
<b>Resolution</b>	4086x2160	4096x2160
<b>Sensor</b>	IMX255 (CMOS, Global Shutter)	IMX255 (CMOS, Global Shutter)
<b>Pixel Size</b>	3.45	3.45
<b>Firmware Version</b>	1610.1.402.0	1610.1.402.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	61.22	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	44.99
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	55.04
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	44.12
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.44	2.44
<b>Temporal Dark Noise (Read Noise) (DN)</b>	14.57	14.64
<b>Signal to Noise Ratio Maximum (dB)</b>	40.25	40.21
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.68	6.68
<b>Absolute Sensitivity Threshold (<math>\gamma</math>)</b>	4.80	5.34
<b>Absolute Sensitivity Threshold (e-)</b>	2.94	2.94
<b>Saturation Capacity (Well Depth) (e-)</b>	10584.30	10490.10
<b>Saturation Capacity (Well Depth) (<math>\gamma</math>)</b>	17290.00	19034.10
<b>Dynamic Range (dB)</b>	71.13	71.04
<b>Dynamic Range (Bits)</b>	11.81	11.80
<b>Gain (e-/ADU)</b>	0.17	0.17

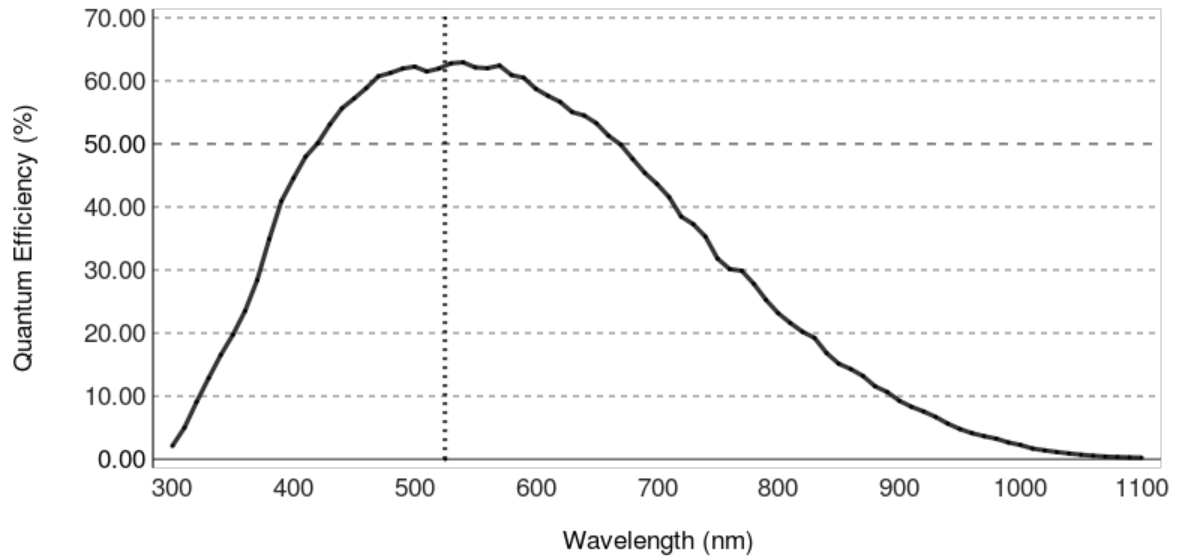
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## Oryx ORX-10G-89S6M Spectral Response Curve



## Oryx ORX-10G-89S6C Spectral Response Curve

