

# EMVA 1288 IMAGING PERFORMANCE

## ORYX<sup>®</sup> ORX-10G-310S9

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

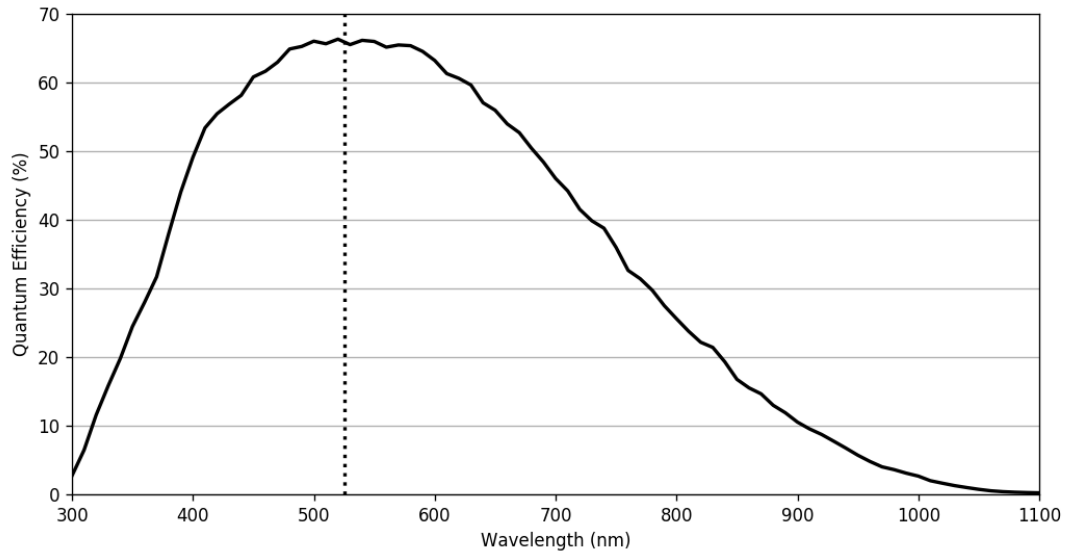
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C). Using FLIR test software version 4.1.

	ORX-10G-310S9M	ORX-10G-310S9C
<b>Resolution</b>	6464 x 4852	6464 x 4852
<b>Sensor</b>	Sony IMX342, CMOS APS-C	Sony IMX342, CMOS APS-C
<b>Pixel Size (μm)</b>	3.45	3.45
<b>Firmware</b>	1904.0.72.0	1904.0.72.0
<b>ADC</b>	12-bit	12-bit
<b>Quantum Efficiency Mono (% at 530 nm)</b>	65	N/A
<b>Quantum Efficiency Blue (% at 460 nm)</b>	N/A	47
<b>Quantum Efficiency Green (% at 530 nm)</b>	N/A	60
<b>Quantum Efficiency Red (% at 625 nm)</b>	N/A	54
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.69	2.49
<b>Temporal Dark Noise (Read Noise) (DN)</b>	15.52	14.88
<b>Signal to Noise Ratio Maximum (dB)</b>	40.34	40.24
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.70	6.68
<b>Absolute Sensitivity Threshold (γ)</b>	4.90	5.01
<b>Absolute Sensitivity Threshold (e-)</b>	3.19	2.99
<b>Saturation Capacity (Well Depth) (e-)</b>	10815	10575
<b>Saturation Capacity (Well Depth) (γ)</b>	16599	17718
<b>Dynamic Range (dB)</b>	70.60	70.97
<b>Dynamic Range (Bits)</b>	11.73	11.79
<b>Gain (e-/ADU)</b>	0.17	0.17

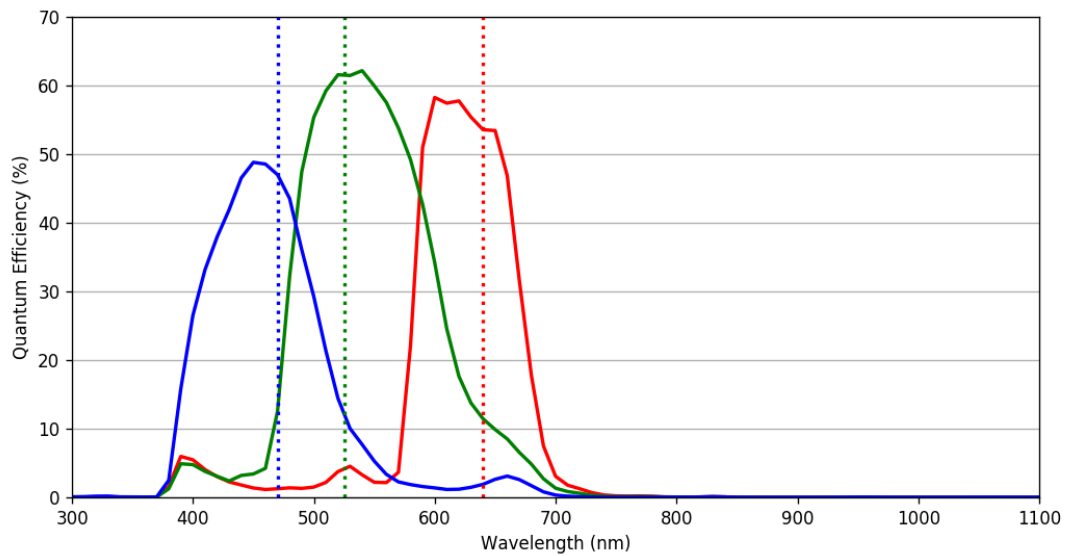
11/22/2022

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## ORX-10G-310S9M



## ORX-10G-310S9C



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