

# EMVA 1288 IMAGING PERFORMANCE

## ORYX<sup>®</sup> CAMERAS

### ORX-10GS-123S6

**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](http://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-10GS-123S6M Oryx ORX-10GS-123S6C

Resolution	4096x3000	4096x3000
Sensor	Sony IMX253, CMOS, 1.1	Sony IMX253, CMOS, 1.1
Pixel Size (μm)	3.45	3.45
Firmware Version	2411.0.120.0	2411.0.120.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	62.88	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	46.69
Quantum Efficiency Green (% at 525 nm)	N/A	58.43
Quantum Efficiency Red (% at 630 nm)	N/A	46.17
Temporal Dark Noise (Read Noise) (e-)	2.34	2.36
Temporal Dark Noise (Read Noise) (DN)	14.59	14.93
Signal to Noise Ratio Maximum (dB)	40.27	40.23
Signal to Noise Ratio Maximum (Bits)	6.69	6.68
Absolute Sensitivity Threshold (γ)	4.71	5.11
Absolute Sensitivity Threshold (e-)	2.96	2.99
Saturation Capacity (Well Depth) (e-)	10644	10550
Saturation Capacity (Well Depth) (γ)	16926	18058
Dynamic Range (dB)	71.10	70.96
Dynamic Range (Bits)	11.81	11.79
Gain (e-/ADU)	0.17	0.17

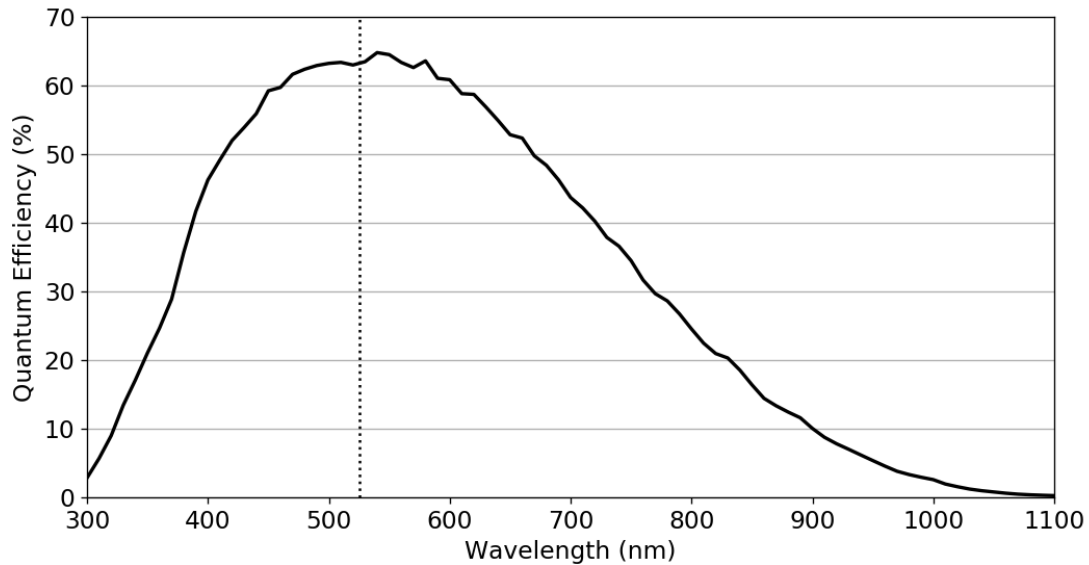
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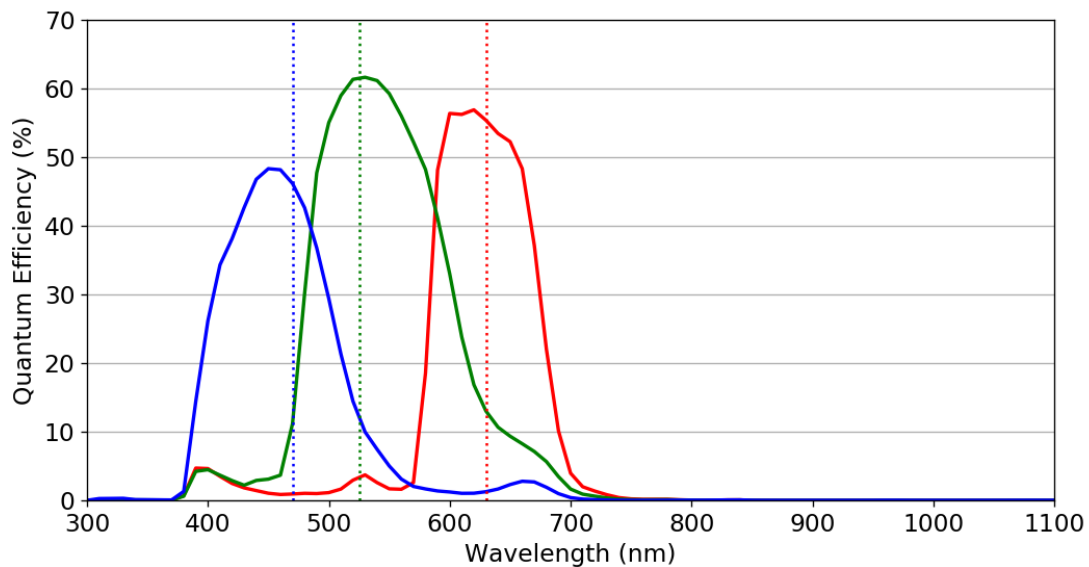
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## Oryx ORX-10GS-123S6M Spectral Response Curve



## Oryx ORX-10GS-123S6C Spectral Response Curve



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