

EMVA 1288 IMAGING PERFORMANCE

ORYX[®] 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.

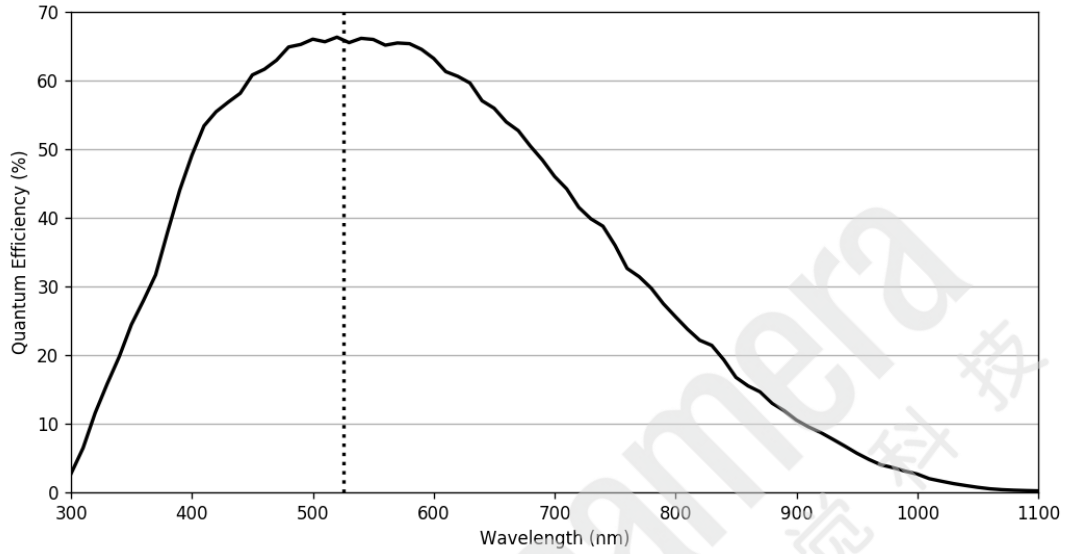
| | ORX-10G-310S9M | ORX-10G-310S9C |
|---|-------------------------|-------------------------|
| Resolution | 6464 x 4852 | 6464 x 4852 |
| Sensor | Sony IMX342, CMOS APS-C | Sony IMX342, CMOS APS-C |
| Pixel Size (µm) | 3.45 | 3.45 |
| Firmware | 1904.0.72.0 | 1904.0.72.0 |
| ADC | 12-bit | 12-bit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

11/22/2022

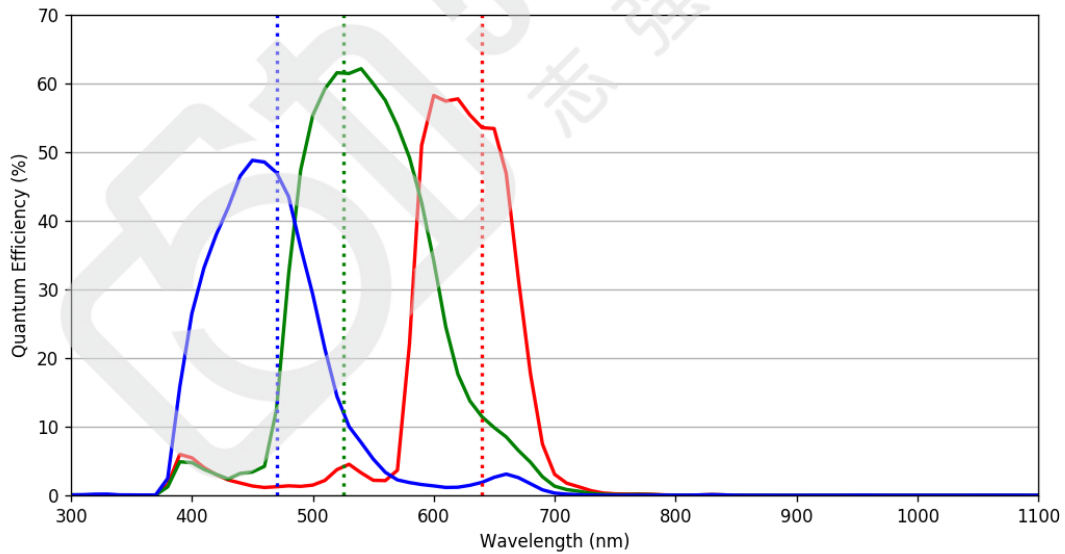
Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems, Inc. and/or its subsidiaries.

© 2016-2022 FLIR Integrated Imaging Solutions Inc. All rights reserved.

ORX-10G-310S9M



ORX-10G-310S9C



11/22/2022

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems, Inc. and/or its subsidiaries.

© 2016-2022 FLIR Integrated Imaging Solutions Inc. All rights reserved.