

# EMVA 1288 IMAGING PERFORMANCE

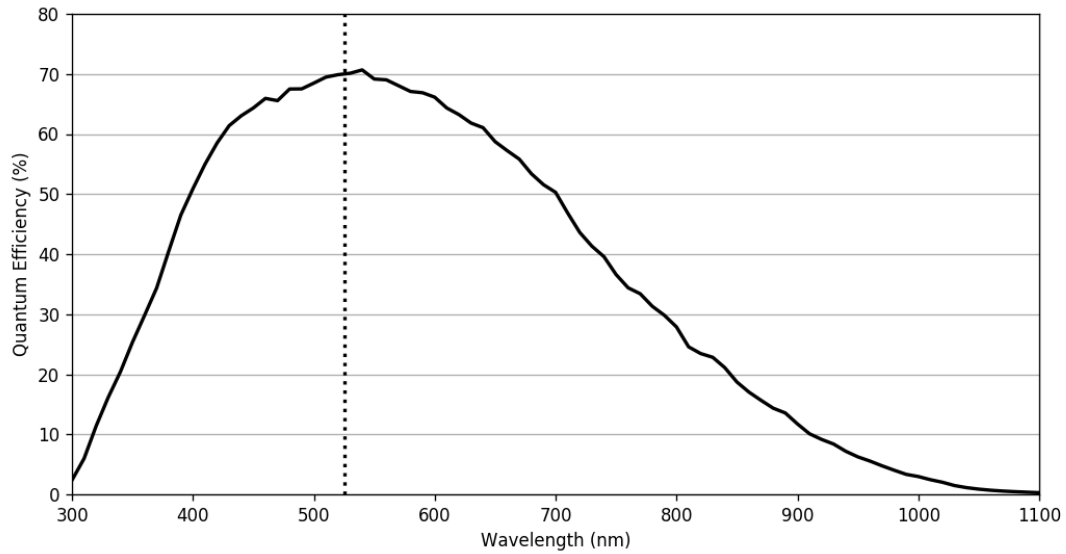
FLIR ORYX<sup>®</sup>

ORX-10G-71S7

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-71S7M	ORX-10G-71S7C			
<b>Resolution</b>	3208 x 2200	3208 x 2200			
<b>Sensor</b>	Sony IMX420, CMOS, 1.1"	Sony IMX420, CMOS, 1.1"			
<b>Pixel Size (µm)</b>	4.5	4.5			
<b>Firmware</b>	1904.0.98.0	1904.0.98.0			
<b>ADC</b>	12-bit	12-bit			
	<b>Conversion Gain</b>	<b>High</b>	<b>Low</b>	<b>High</b>	<b>Low</b>
<b>Quantum Efficiency Mono (% at 530 nm)</b>		67	68	N/A	N/A
<b>Quantum Efficiency Blue (% at 460 nm)</b>		N/A	N/A	52	53
<b>Quantum Efficiency Green (% at 530 nm)</b>		N/A	N/A	61	62
<b>Quantum Efficiency Red (% at 625 nm)</b>		N/A	N/A	48	49
<b>Temporal Dark Noise (Read Noise) (e-)</b>		2.66	5.92	2.78	6.02
<b>Temporal Dark Noise (Read Noise) (DN)</b>		15.89	15.23	16.01	14.92
<b>Signal to Noise Ratio Maximum (dB)</b>		40.29	43.94	40.44	44.08
<b>Signal to Noise Ratio Maximum (Bits)</b>		6.69	7.30	6.72	7.32
<b>Absolute Sensitivity Threshold (γ)</b>		4.74	9.42	5.39	10.53
<b>Absolute Sensitivity Threshold (e-)</b>		3.16	6.42	3.28	6.52
<b>Saturation Capacity (Well Depth) (e-)</b>		10692	24802	11054	25583
<b>Saturation Capacity (Well Depth) (γ)</b>		16033	36416	18195	41334
<b>Dynamic Range (dB)</b>		70.59	71.74	70.57	71.88
<b>Dynamic Range (Bits)</b>		11.73	11.92	11.72	11.94
<b>Gain (e-/ADU)</b>		0.17	0.39	0.17	0.40

## ORX-10G-71S7M



## ORX-10G-71S7C

