

EMVA 1288 IMAGING PERFORMANCE

ORYX[®]
ORX-10G-71S7

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

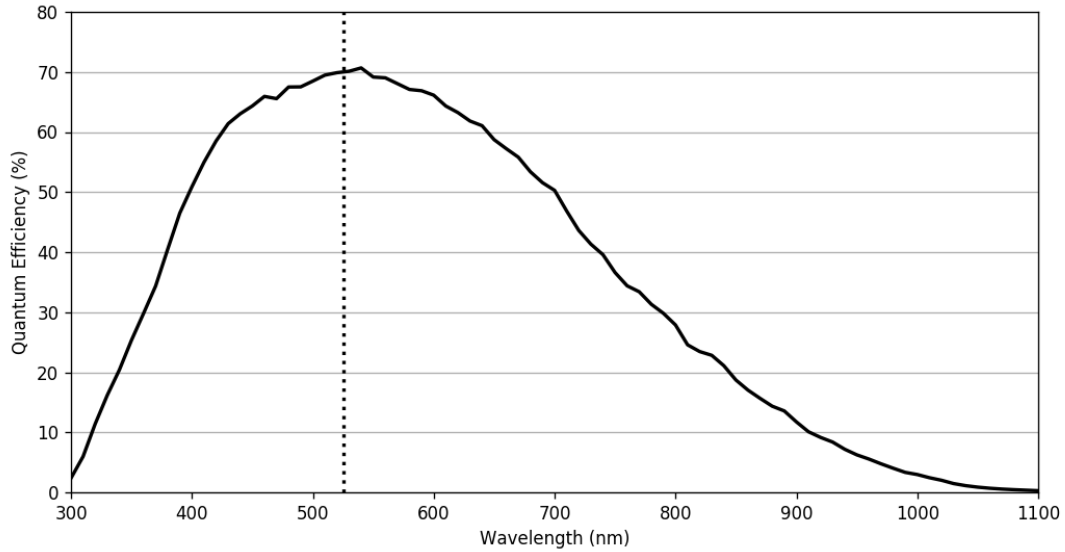
11/22/2022

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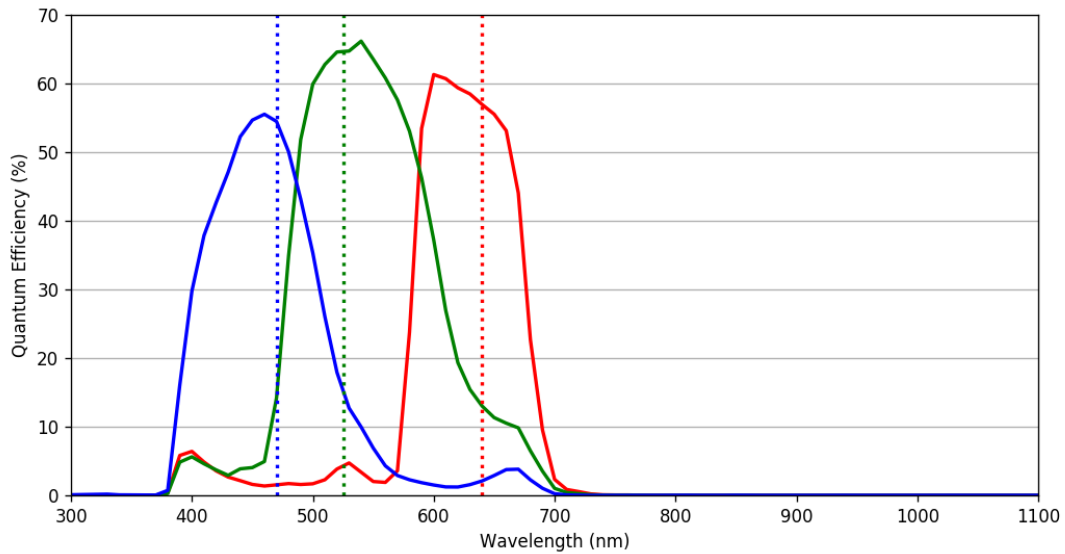
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ORX-10G-71S7M



ORX-10G-71S7C



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