

SONY XCG-V60E EMVA 1288 DATASHEET

The measurements are conforming to the 1288 EMVA (European Machine Vision Association) standard rel. 3.0 of Nov 2010, and were performed on a sample SONY XCG-V60E GigE camera.

Camera information

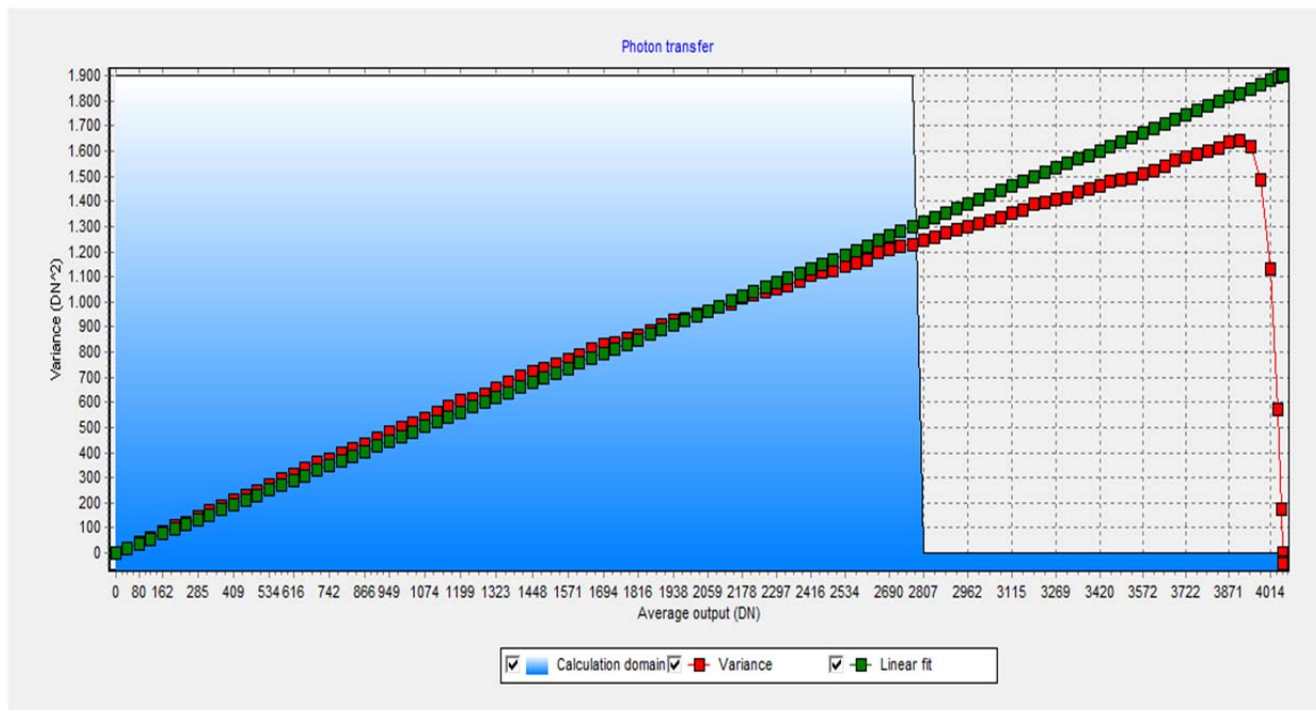
Parameter	Value
Vendor	SONY
Model	XCG-V60E
Sensor	ICX-424AL
Sensor type	CCD
Sensor diagonal	6mm (1/3 type)
Lens category	C-mount
Resolution X	640
Resolution Y	480
Pixel width	7.4um
Pixel height	7.4um
Readout	Progressive scan
Transfer	Interline Transfer
Shutter	Global
Maximum frame rate in this configuration	90fps
Interface	Gen<i>cam
Color pattern	Monochrome
Serial number	101075
Line / Area	Area

EMVA 1288 results

Measurements	Value	Unit	Remarks
Quantum Efficiency (QE)	45.5	%	$\lambda=520\text{nm}$
Inverse of overall gain (1/K)	2.12	e^-/DN	
Dark noise	13.74	e^-	
DSNU1288	0.3	DN	
Maximum SNR	91.7	No unit	
Maximum SNR	39.2	dB	
Maximum SNR	6.52	bits	
PRNU1288	0.2	%	
Non-whiteness factor (dark image)	Not measurable	No unit	
Non-whiteness factor (bright image)	1.063	No unit	
Linearity error	0.65	%	
Absolute sensitivity threshold	31.2	photons	
Saturation capacity	19824	photons	
Dynamic range	56	dB	
Dark current	4.91	$e^-/\text{pixel/s}$	

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Photon Transfer:



SNR:

