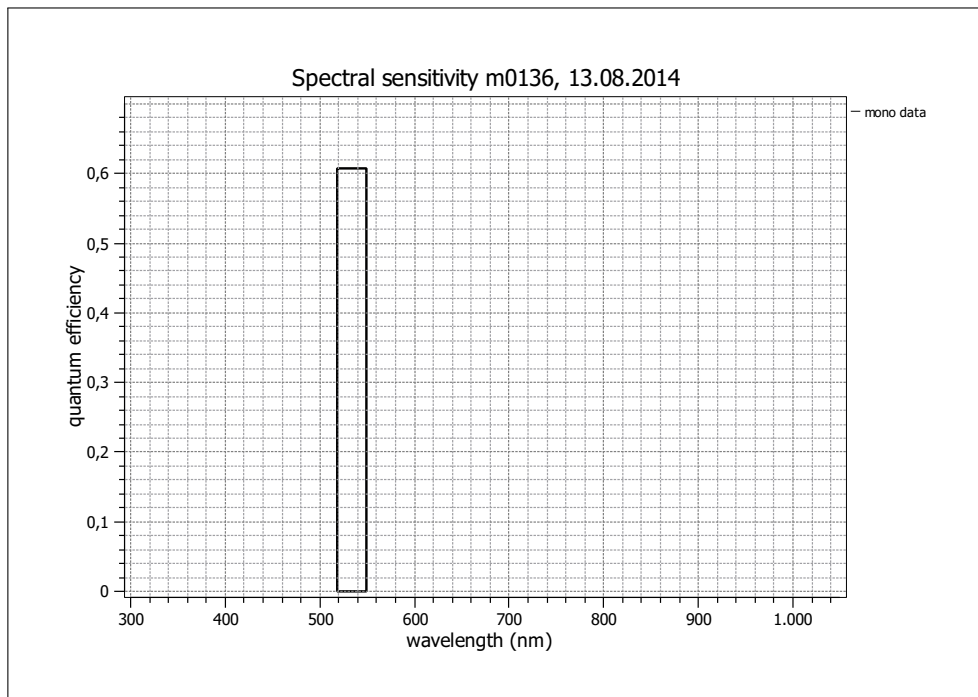


EMVA 1288 Summary Sheet

This datasheet describes the specification according to the standard 1288 for Characterization and Presentation of Specification Data for Image Sensors and Cameras of the European Machine Vision Association (EMVA)(see www.standard1288.org). The measurements were performed with an AEON ACC3 RGB Release 3, 20.01.2104, SN 0005() . The performance parameters and estimated accuracy of the measurements are described in the technical report for the instrument, its calibration in the corresponding calibration report.

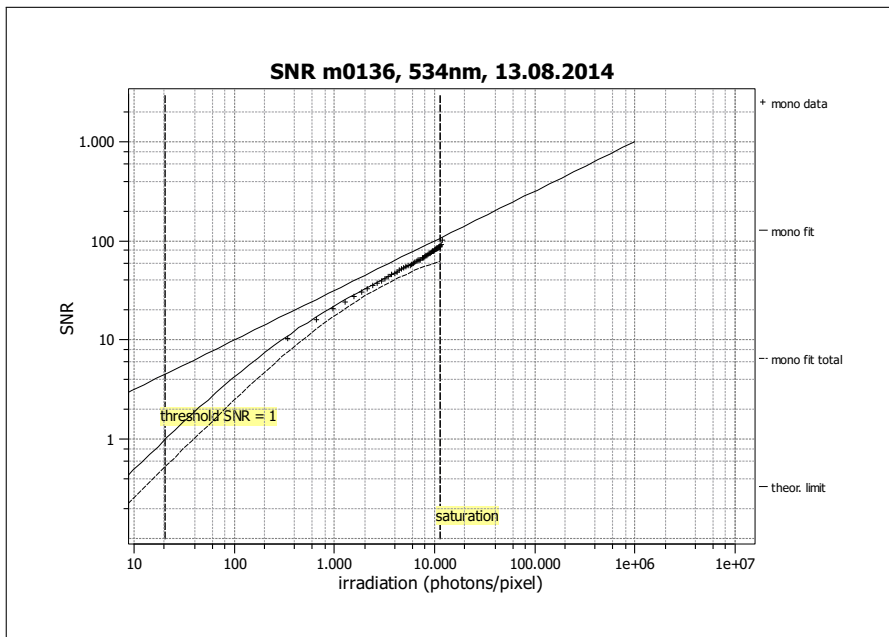
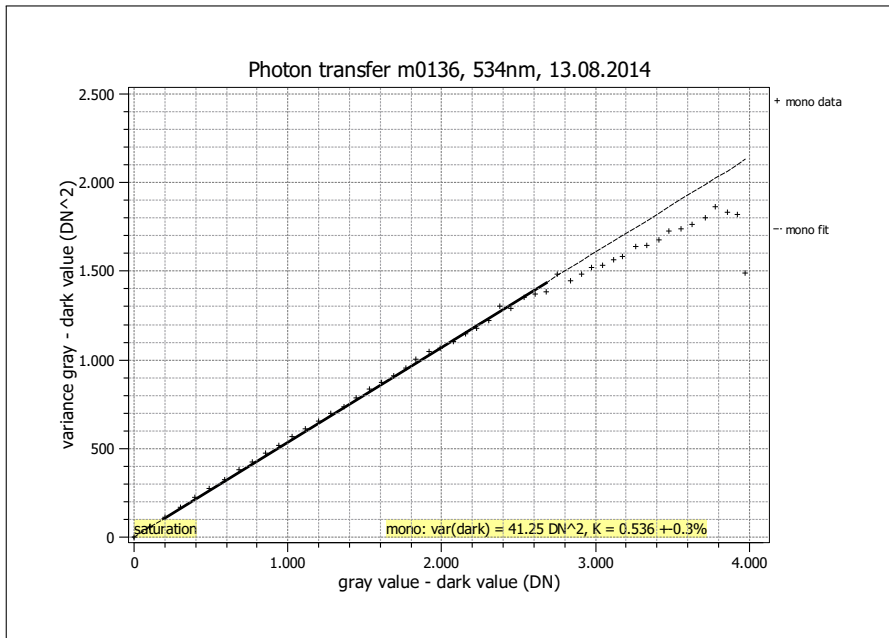
Vendor	MATRIX VISION
Model	mvBlueCOUGAR-XD104bG
Serial number	GX200445
Sensor diagonal	15.93 mm
Lens category	C-Mount
Resolution	2048 × 2048, 12 bit
Pixel size	5.50 μm × 5.50 μm
Sensor type	CMOS
Shutter type	Global
Overlap capabilities	Overlapping
Maximum frame rate	50.0 Hz
Interface type	GigE Vision

Type of data presented	Single
Operation point 1, (page 3)	
Wavelength centroid	534.2 nm
Wavelength FWHM	30.9 nm
Gain, offset	preGain = 0.045dB, Offset = -5.5
Optional data measured	
None	



EMVA 1288 Summary Sheet for Operating Point 1

Type of data	Single	Gain, offset	preGain = 0.045dB, Offset = -5.5
Exposure time	300.0 μ s	Environmental	26.4°C
Frame rate	0.0 Hz	tempera-	
Data transfer mode	Mono12	ture	
		Camera	25.1°C
		tempera-	
		ture	
		Wavelength,	534 nm, 30.9 nm
		centr.,	
		FWHM	



Quantum efficiency	
η	0.608
Gain	
K (DN/e)	0.536
$1/K$ (e/DN)	1.867
Dark noise & DSNU	
σ_d (DN)	6.42
σ_0 (e)	12.0
DSNU ₁₂₈₈ (DN)	10.72
DSNU ₁₂₈₈ (e)	20.01
Signal-to-noise ratio & PRNU	
SNR _{max}	83
SNR _{max} (dB)	38.4
SNR _{max} (bits)	6.4
$1/\text{SNR}_{\text{max}}$ (%)	1.21
PRNU ₁₂₈₈ (%)	0.990
Nonlinearity	
LE (%)	0.72
Sensitivity & saturation	
$\mu_{p,\text{min}}$ (p)	20.6
$\mu_{e,\text{min}}$ (e)	12.5
$\mu_{p,\text{sat}}$ (p)	11257
$\mu_{e,\text{sat}}$ (e)	6844
Dynamic range	
DR	547
DR (dB)	54.8
DR (bit)	9.1
Dark current	
$\mu_{c,\text{mean}}$ (DN/s)	-1436.13
$\mu_{c,\text{mean}}$ (e/s)	-2681.07
$\mu_{c,\text{var}}$ (e/s)	32196.05