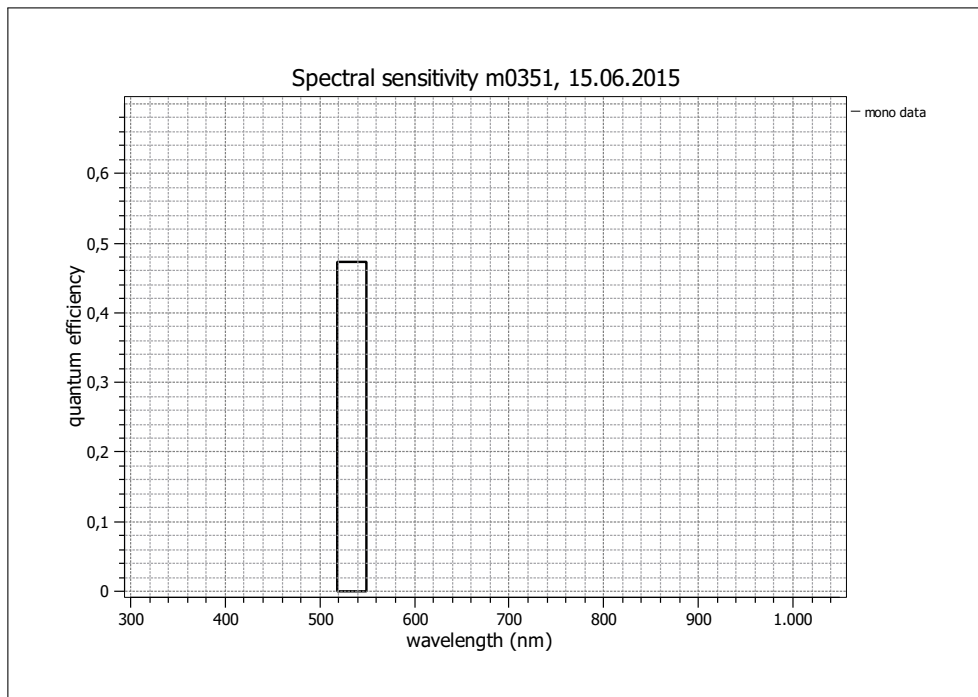


## EMVA 1288 Summary Sheet

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](http://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.

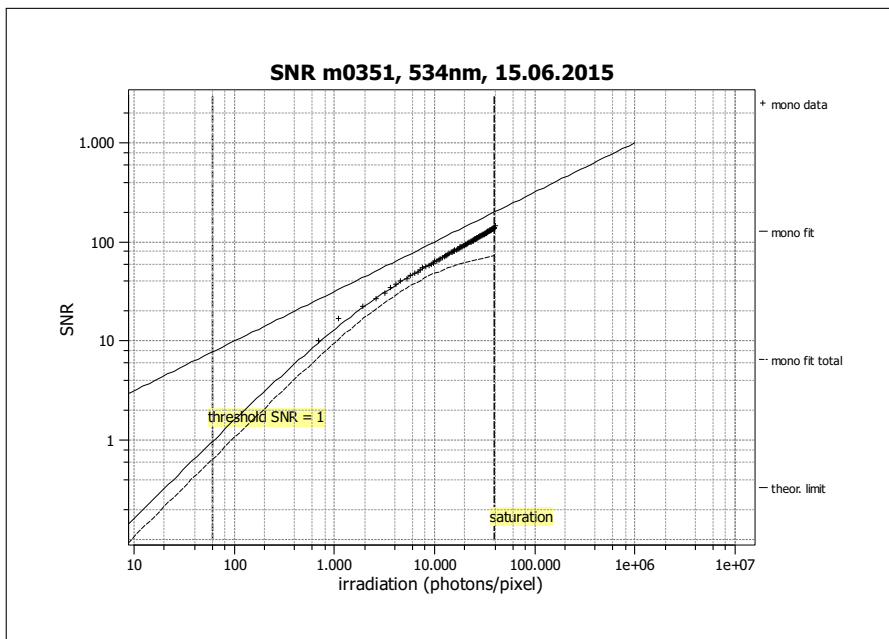
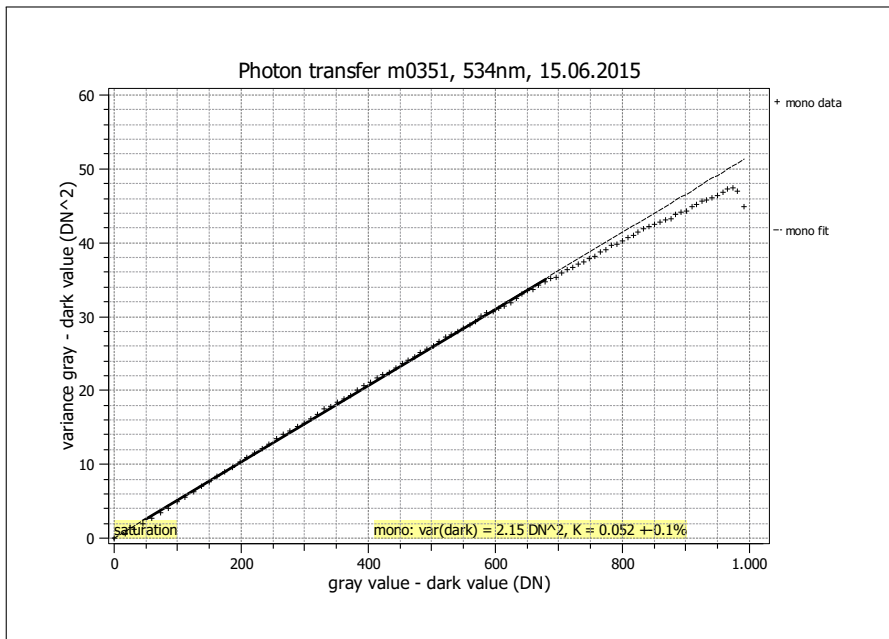
Vendor	MATRIX VISION
Model	mvBlueCOUGAR-X100wG
Serial number	GX007888
Sensor diagonal	5.35 mm
Lens category	C-Mount
Resolution	752 × 480, 10 bit
Pixel size	6.00 μm × 6.00 μm
Sensor type	CMOS
Shutter type	Global Shutter Mode
Overlap capabilities	Pipelined
Maximum frame rate	63.3 Hz
Interface type	GigE Vision

Type of data presented	Single
<b>Operation point 1, (page 3)</b>	
Wavelength centroid	534.2 nm
Wavelength FWHM	30.9 nm
Gain, offset	Gain = 0dB, Offset = 0.5
<b>Optional data measured</b>	
None	



## EMVA 1288 Summary Sheet for Operating Point 1

Type of data	Single	Gain, offset	Gain = 0dB, Offset = 0.5
Exposure time	12.0 ms	Environmental temperature	29.4°C
Frame rate	0.0 Hz	Camera temperature	38.5°C
Data transfer mode	Mono10	Wavelength, centr., FWHM	534 nm, 30.9 nm



Quantum efficiency	
$\eta$	0.473
Gain	
$K$ (DN/e)	0.052
$1/K$ (e/DN)	19.328
Dark noise & DSNU	
$\sigma_d$ (DN)	1.47
$\sigma_0$ (e)	27.8
DSNU <sub>1288</sub> (DN)	1.72
DSNU <sub>1288</sub> (e)	33.27
Signal-to-noise ratio & PRNU	
SNR <sub>max</sub>	137
SNR <sub>max</sub> (dB)	42.7
SNR <sub>max</sub> (bits)	7.1
$1/\text{SNR}_{\text{max}}$ (%)	0.73
PRNU <sub>1288</sub> (%)	1.154
Nonlinearity	
LE (%)	0.72
Sensitivity & saturation	
$\mu_{p,\text{min}}$ (p)	61.0
$\mu_{e,\text{min}}$ (e)	28.8
$\mu_{p,\text{sat}}$ (p)	39603
$\mu_{e,\text{sat}}$ (e)	18713
Dynamic range	
DR	649
DR (dB)	56.2
DR (bit)	9.3
Dark current	
$\mu_{c,\text{mean}}$ (DN/s)	257.10
$\mu_{c,\text{mean}}$ (e/s)	4969.21
$\mu_{c,\text{var}}$ (e/s)	-1654.36