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 or the Zenodo EMVA 1288 community) release 3.0 with proprietary extensions from AEON. The measurements were performed with the AEON ACC3 Release 5, 06.06.2016, SN 0005(MatrixVision). The performance parameters and estimated accuracy of the measurements are described in the technical report for the instrument, its calibration in the corresponding specification and calibration report.

Measurements performed by W.Dutt, Matrix Vision GmbH
EMVA 1288 Summary Sheet for Operating Point 1

<table>
<thead>
<tr>
<th>Type of data</th>
<th>Single</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure control</td>
<td>By irradiance</td>
</tr>
<tr>
<td>Exposure time</td>
<td>15.00 ms</td>
</tr>
<tr>
<td>Frame rate</td>
<td>21.0 Hz</td>
</tr>
<tr>
<td>Data transfer mode</td>
<td>Mono12</td>
</tr>
</tbody>
</table>

Gain, black-level: 0dB, 0.1
Environmental temperature: 22.9°C
Camera body temperature: 37.5°C
Internal temperature(s): —
Wavelength, centr., FWHM: 536 nm, 31.0 nm

Quantum efficiency: η = 61.1%
Overall system gain: K = 0.375 DN/e−
1/K = 2.668 e−/DN

Temporal dark noise & DSNU
σy,dark = 0.90 DN
DSNU1288 = 0.43 DN
σd = 2.28 e−
DSNU1288 = 1.16 e−

Signal-to-noise ratio & PRNU
SNRmax = 102
40.2 dB
6.7 bit
1/SNRmax = 0.98%
PRNU1288 = 1.02%

Nonlinearity
LE = 0.18%
LEmin = -0.21%
LEmax = 0.15%

Sensitivity & saturation
μp, min = 4.84 p
0.407 p/µm²
μp, sat = 17198 p
1445 p/µm²
μe, min = 2.96 e−
0.249 e−/µm²
μe, sat = 10503 e−
882 e−/µm²

Dynamic range
DR = 3550
71.0 dB
11.8 bit

Dark current
μc, mean = -2.3 DN/s
μc, mean = -6.2 e−/s
μc, var = 3.1 e−/s