This datasheet describes the specification according to the standard 1288 release 3.1 for "Characterization and Presentation of Specification Data for Image Sensors and Cameras" issued on December 30, 2016 by the European Machine Vision Association (EMVA), published at www.standard1288.org and the zenodo EMVA 1288 community with proprietary extensions from AEON. The measurements were performed with the AEON ACC3 Release 6, 26.11.2016, SN 0005(MatrixVision).

Measurements performed by T.Renner, Matrix Vision GmbH
Summary Sheet for Operation Point 1 at a Wavelength of 535 nm

<table>
<thead>
<tr>
<th>Type of data</th>
<th>Single</th>
<th>Gain, black-level</th>
<th>0dB, 0.13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure control</td>
<td>By irradiance</td>
<td>Environmental temperature</td>
<td>23.2°C</td>
</tr>
<tr>
<td>Exposure time</td>
<td>18.00 ms</td>
<td>Camera body temperature</td>
<td>33.0°C</td>
</tr>
<tr>
<td>Frame rate</td>
<td>9.6 Hz</td>
<td>Internal temperature(s)</td>
<td>—</td>
</tr>
<tr>
<td>Data transfer mode</td>
<td>Mono12</td>
<td>Wavelength, centr., FWHM</td>
<td>535 nm, 31.0 nm</td>
</tr>
</tbody>
</table>

**Photon Transfer**

![Photon transfer graph](image)

**Signal-to-Noise Ratio**

![Signal-to-Noise Ratio graph](image)

**Quantum efficiency**

\[ \eta = 60.8\% \]

**Overall system gain**

\[ K = 0.386 \text{ DN/e}^- \]

\[ 1/K = 2.593 \text{ e}^-/\text{DN} \]

**Temporal dark noise**

\[ \sigma_d = 2.32 \text{ e}^- \]

\[ \sigma_y \text{.dark} = 0.94 \text{ DN} \]

**Signal-to-noise ratio**

\[ \text{SNR}_{\text{max}} = 101 \]

40.1 dB

6.7 bit

\[ 1/\text{SNR}_{\text{max}} = 0.99\% \]

**Absolute sensitivity threshold**

\[ \mu \text{.min} = 4.91 \text{ p} \]

\[ \mu \text{.min.area} = 0.413 \text{ p}/\mu\text{m}^2 \]

\[ \mu \text{.min} = 2.99 \text{ e}^- \]

\[ \mu \text{.min.area} = 0.251 \text{ e}^-/\mu\text{m}^2 \]

**Saturation capacity**

\[ \mu \text{.sat} = 16762 \text{ p} \]

\[ \mu \text{.sat.area} = 1408 \text{ p}/\mu\text{m}^2 \]

\[ \mu \text{.sat} = 10193 \text{ e}^- \]

\[ \mu \text{.sat.area} = 856 \text{ e}^-/\mu\text{m}^2 \]

**Dynamic range**

\[ \text{DR} = 3411 \]

70.7 dB

11.7 bit

**Spatial nonuniformities**

\[ \text{DSNU}_{1288} = 2.77 \text{ e}^- \]

1.07 DN

\[ \text{PRNU}_{1288} = 0.77\% \]

**Linearity error**

\[ \text{LE}_{\text{min}} = -0.63\% \]

\[ \text{LE}_{\text{max}} = 0.64\% \]

**Dark current**

\[ \mu \text{c.mean} = 1.9 \pm 0.0 \text{ e}^-/\text{s} \]

\[ 0.75 \text{ DN/s} \]

\[ \mu \text{c.var} = 2.0 \pm 0.0 \text{ e}^-/\text{s} \]

\[ T_d = — \text{ °C} \]