JENOPTIK GRYPHAX® ALTAIR

Explore your micro universe cost efficient with 3 & 12 MPix.

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<td>Pol</td>
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JENOPTIK GRYPHAX® ALTAIR - technical data
Superior solution for education applications

IMAGE SENSOR
- Type: Square Utilised sensor diagonal
  - SONY back-illuminated CMOS 1/1.75” 9.3 mm
- Pixel dimensions: 1.85 x 1.85 μm
- Color or monochrome: Color
- Transfer method / shutter mode: All pixel scan / rolling shutter

CAMERA
- Camera resolution & speed in LIVE mode:
  - 1000 x 750 pixel / 20 fps
  - 2000 x 1500 pixel / 20 fps
- Camera resolution in RECORD mode:
  - 1000 x 750 pixel
  - 2000 x 1500 pixel
  - 4000 x 3000 pixel
- Camera resolution & speed in VIDEO mode:
  - 2000 x 1500 pixel up to 20 fps
- Exposure time LIVE min. - max.: 52 μs - 1 s
- Exposure time RECORD min. - max.: 52 μs - 15 s
- Gain: Max. 15
- Cooling: NO
- A/D conversion / digital output: 10 bit (1024 grey values) / 16 bit
- Absolute sensitivity threshold*: 5.7 e-
- Quantum Efficiency @ 532 nm (green)*: 0.57 QE (A)
- Dark Noise [DN / e-]*: 0.5 DN / 4 e-
- Saturation capacity*: 10.000 e-
- Dynamic range*: 65 dB
- Filter: IR cut / optional clear-glass
- Power consumption: Appr. 4.5 W
- Hardware Trigger: NO
- Weight: Appr. 400 g
- Power switch: Yes
- Optical interface: C-mount
- Dimensions: 85 mm x 75 mm x 50 mm
- Storage options: -20°C up to 70°C
- Operating temperature: +10°C up to + 35°C non condensing
- Warranty: 24 months
- Conformity to CE / WEEE / RoHS / China RoHS: Yes

RECOMMENDED SYSTEM REQUIREMENTS
- Personal computer: Intel i7 (Quad-Core) processor or comparable / 8 GB RAM
- Operating system - 64 Bit: Win 7 SP1 / Win 8.1 / Win 10 I MacOS High Sierra / Mojave I Linux Ubuntu 16.04 LTS
- Data interface: USB 3.0 integrated, no extra power supply needed
- Monitor resolution: 3840 x 2160 pixel or higher
- Software (included in the package): Microscope software - GRYPHAX APP / Twain APP / DirectX APP / Software development kit

Measured spectral sensitivity*:

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<th>Wavelength (nm)</th>
<th>Absolute Sensitivity (relative to 0.57 QE)</th>
<th>Relative Sensitivity</th>
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<tbody>
<tr>
<td>430</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>510</td>
<td>0.85</td>
<td>0.85</td>
</tr>
<tr>
<td>590</td>
<td>0.75</td>
<td>0.75</td>
</tr>
<tr>
<td>750</td>
<td>0.6</td>
<td>0.6</td>
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</tbody>
</table>

*based on EMVA 1288 standard compliance guidelines