Quick Start Guide
VCXG.I / .XT cameras (Gigabit Ethernet)

Latest software version and technical documentation are available at:
vt.baumer.com

Product Specification
VCXG.I / VCXG.I.XT cameras – Extremely functionality and high frame rates

- Up to 12 megapixel and 145 fps
- Optional: Operating temperature range -40 °C (-40 °F) to 70 °C (158 °F)
- Vibration 10 g, shock 100 g
- Power supply: 12 – 24 V externally or PoE
- GigE VisionTM standard compliant
- Optional: Protection classes IP65 / IP67 (with installed tube)
- Optional: Modular tube system
- M12 industry connectors
- PWM on Outputs for direct controlled illuminations
- 4 outputs with maximum 1.5 A (2.5 A with 40% periode time)
- Surface hard anodized

Notice
Further technical details are available in the respective data sheets.

System Requirements

<table>
<thead>
<tr>
<th></th>
<th>Single-camera system</th>
<th>Multi-camera system</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended</strong></td>
<td>CPU @ 2.50 GHz, Cores: 4</td>
<td>CPU @ 3.40 GHz, Cores: 8</td>
</tr>
<tr>
<td><strong>Recommended</strong></td>
<td>Intel® Core™ i5-2520M</td>
<td>Intel® Core™ i7-3770</td>
</tr>
<tr>
<td><strong>RAM</strong></td>
<td>4 GB</td>
<td>8 GB</td>
</tr>
<tr>
<td><strong>Operating system</strong></td>
<td>Microsoft® Windows® 7 (32 / 64 bit systems)</td>
<td>Microsoft® Windows® 8 (32 / 64 bit systems)</td>
</tr>
<tr>
<td>(OS)</td>
<td>Microsoft® Windows® 10 (32 / 64 bit systems)</td>
<td>Microsoft® Windows® 10 (32 / 64 bit systems)</td>
</tr>
</tbody>
</table>

Environmental Requirements

- Storage: VCXG.I: -20 °C (-4 °F) … 50 °C (122 °F)
- Operating temp.: VCXG.I: -40 °C (-40 °F) … 70 °C (158 °F)
- Humidity: 10% … 90% non-condensing

Installation

Lens mount

Notice
Ensure the sensor and lens are not contaminated with dust and airborne particles when mounting the support or the lens to the device!

The following points are very important:
- Install the camera in an environment that is as dust free as possible!
- Keep the dust cover (bag) on the camera for as long as possible!
- Hold the camera with the sensor downwards if the sensor is uncovered.
- Avoid contact with any of the camera’s optical surfaces!

Modular tube system (ordered separately)

Conformity / Safety

Safety Precautions

Notice
See the User’s Guide for the complete safety instructions!

Caution
Observe precautions for handling electrostatically sensitive devices!

We declare, under our sole responsibility, that the previously described Baumer VCXG.I / .XT cameras conform with the directives of the CE.

All VCXG.I/.XT cameras comply with the recommendation of the European Union concerning RoHS Rules.

Further Information

For further information on our products visit www.baumer.com
For technical issues, please contact our technical support:
support.cameras@baumer.com · Phone +49 (0)3528 4386-0 · Fax +49 (0)3528 4386-86
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Technical data has been fully checked, but accuracy of printed matter not guaranteed.

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### LED Signaling

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Signal</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Link active</td>
<td>green</td>
<td>link active</td>
</tr>
<tr>
<td></td>
<td>green flash</td>
<td></td>
<td>receiving</td>
</tr>
<tr>
<td>2</td>
<td>Error</td>
<td>yellow</td>
<td>error</td>
</tr>
<tr>
<td></td>
<td>yellow flash</td>
<td></td>
<td>transmitting</td>
</tr>
</tbody>
</table>

### Heat Transmission

Provide adequate dissipation of heat, to ensure that the temperature does not exceed the values in the table below.

The surface of the camera may be hot during operation and immediately after use. Be careful when handling the camera and avoid contact over a longer period.

As there are numerous possibilities for installation, Baumer do not specify a specific method for proper heat dissipation, but suggest the following principles:
- operate the cameras only in mounted condition
- mounting in combination with forced convection may provide proper heat dissipation

### Measurement Point (T) Maximum Temperature

<table>
<thead>
<tr>
<th>VCXG.1</th>
<th>VCXG.LXT</th>
</tr>
</thead>
<tbody>
<tr>
<td>65 °C (149 °F)</td>
<td>70 °C (158 °F)</td>
</tr>
</tbody>
</table>

### Installation

**Installation of the camera:**
- **without PoE:** Connect the camera using an appropriate cable (at least Cat-5e) to the GigE board on your PC.
- **PoE:** Connect the camera using an appropriate cable (at least Cat-5e) to a free port of a PoE capable ethernet switch. Establish the connection between switch and GigE board on your PC.
  - If required, connect a trigger and / or flash to process interface.
  - Connect the camera to power supply.

**Installation sample**
1. PCI board
2. GigE cable
3. PoE capable ethernet switch or Baumer PoE components
4. Cable for trigger and flash