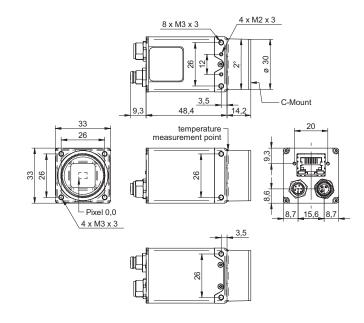
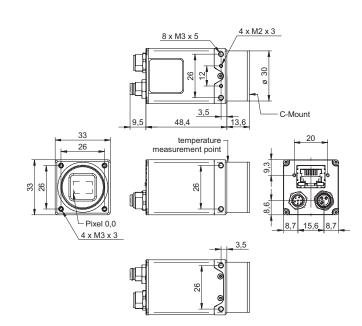
VisiLine- Innovative functionality

- Flexible assembly
- RGB and YUV interpolation algorithms on board
- Bandwidth up to 1000 Mbit/sec for fast multi-camera operation
- Flexible system architecture due to cable length up to 100 m
- Baumer driver for reliable image transfer
- PoE (Power over Ethernet)

| Camera Type | Sensor Size | Resolution | Full Frames [max. fps] |
|-----------------------|----------------|-------------|---------------------------|
| CCD Sensor (monochrom | e / color) | | |
| VLG-02M / VLG-02C | 1/4" | 656 x 490 | 160 |
| VLG-12M / VLG-12C | 1/3" | 1288 x 960 | 42 |
| VLG-20M / VLG-20C | 1/1.8" | 1624 x 1228 | 27 |
| CMOS Sensor (monochro | me / color) | | |
| VLG-03M / VLG-03C | 1/3" | 640 x 480 | 376 |
| VLG-22M / VLG-22C | 2/3" | 2044 x 1084 | 55 |
| VLG-23M / VLG-23C | 1/1.2" | 1920 x 1200 | 53 |
| VLG-24M / VLG-24C | 1/1.2" | 1920 x 1200 | 38.5 |
| VLG-40M / VLG-40C | 1" | 2044 x 2044 | 29 |



Dimensions (VLG-23M / VLG-23C, VLG-24M / VLG-24C only)





Quick Start Guide VisiLine cameras (Gigabit Ethernet)

Download latest camera software: www.baumer.com/vision/software

Download latest technical documentation: www.baumer.com/cameras/docs

Conformity / Safety

Conformity



We declare, under our sole responsibility, that the described Baumer cameras conform with the directives of the CE.



All cameras comply with the recommendation of the European Union concerning RoHS Rules.



Several of the described Baumer cameras conform with the directives of the Korean Conformity.

Please refer for the User's guide or technical documentation.

Safety instructions

| Notice |
|--|
| See User's Guide for the complete safety instructions! |

- Protect the sensor from dirt and moisture.
- Never open the camera housing.
- Avoid camera contamination by foreign objects.

Environmental requirements:

| | • |
|-----------------|--------------------------------|
| Storage temp. | -10 °C +70 °C (14 °F158 °F) |
| Operating temp. | +5 °C +60 °C (41 °F140 °F) |
| Housing temp. | max. +65 °C (max. 149 °F) |
| Humidity | 10 % 90 % Non-condensing |

System Requirements

| | Single-cam | iera system | Multi-came | Multi-camera system | | |
|------------|---|---|-----------------------------|---------------------|--|--|
| | Minimum | Recommended | Minimum | Recommended | | |
| CPU | Intel® Pentium®4 | | | | | |
| | or comparable | Intel® Core | [™] Duo comparable | processor | | |
| | processor | | | | | |
| Clock | 2.5 GHz | > 2.5 GHz | 2.5 GHz | 3 GHz | | |
| RAM | 1024 MB | 2048 MB | 2048 MB | > 2048 MB | | |
| Operating | Microso | Microsoft® Windows® XP incl. Service Pack 2 or higher | | | | |
| system | Microsoft | ® Windows® XP x64 | incl. Service Pack 2 | or higher | | |
| (OS) | Mic | rosoft® Windows Vis | ta™ 32 / 64 bit syst | ems | | |
| | Microsoft® Windows 7 32 / 64 bit systems | | | | | |
| | Linux® 32 / 64 bit systems from Kernel 2.6.xx | | | | | |
| Graphic | recommended resolution 1280 x 1024, color depth at least 16 bit | | | | | |
| Ethernet | Gigabit Ethernet compliant NIC (recommended Intel® chipset) | | | | | |
| Framework | Windows® OS: .NET™ Framework 2.0 or higher | | | | | |
| (optional) | Linux® OS: Mono 1.2.4 or higher | | | | | |

Further Information

For further information on our products visit www.baumer.com
For technical issues, please contact our technical support:

<u>support.cameras@baumer.com</u> · Phone +49 (0)3528 4386-0 · Fax +49 (0)3528 4386-86

Baumer Optronic GmbH · Badstrasse 30 · DE-01454 Radeberg, Germany Technical data has been fully checked, but accuracy of printed matter not guaranteed. Subject to change without notice. Printed in Germany 09/18.

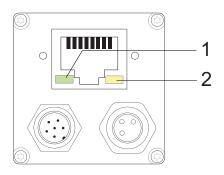
Notice

Further technical details are available in the respective data sheet.





| No. | Description | No. | Description |
|-----|-------------------------|-----|---------------------------|
| 1 | C-Mount lens connection | 4 | Power supply / Digital-IO |
| 2 | Ethernet Port | | |
| 3 | Digital-IO | | |



| LED | Signal | Meaning | |
|-----|-------------|--------------|--|
| 1 | green | Link active | |
| 1 | green flash | Receiving | |
| 2 | yellow | Transmitting | |

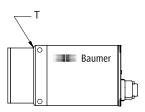
Heat Transmission

Δ

Caution

Heat can damage the camera. Provide adequate dissipation of heat, to ensure that the temperature does not exceed the value in the table below.

As there are numerous possibilities for installation, Baumer does not specify a specific method for proper heat dissipation.



| Measure Point | Maximal Temperature |
|---------------|---------------------|
| Т | 50°C (122°F) |

Data Interface / Power Supply / Digital IOs

Notice

The VisiLine supports PoE (Power over Ethernet) IEEE 802.3af Clause 33, 48 V power supply.

8P8C mod jack with LEDs

| | | 8 1 | |
|---|--------------|------|--|
| 1 | green/white | MX1+ | (negative / positive V _{port}) |
| 2 | green | MX1- | (negative / positive V _{port}) (negative / positive V _{port}) (positive / negative V _{port}) |
| 3 | orange/white | MX2+ | (positive / negative V _{port}) |
| 4 | blue | MX3+ | |
| 5 | blue/white | MX3- | |
| 6 | orange | MX2- | (positive / negative V _{port}) |
| 7 | brown/white | MX4+ | |
| 8 | brown | MX4- | |

Power supply / Digital-IO

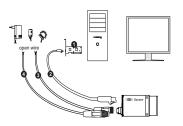
wire colors of the connecting cable

| wire colors of the conficeting capic | | | | | |
|--------------------------------------|---|-------|--|----------------------------------|-----------------|
| | (((, 1)) () () () () () () () () (| | | (O ₄ O ₁) | |
| 1 | Power $V_{\rm CC}$ | brown | 1 | not used | brown |
| 2 | IN 1 | white | 3 | OUT 2 | blue |
| 3 | GND | blue | 4 | OUT 3 | black |
| 4 | OUT 1 | black | Notice | | |
| 5 | U _{ext} OUT | grey | The electrical data are available in the | | vailable in the |
| 6 | GND IN | pink | respective data sheet. | | |

Installation

Installation of the camera:

- Connect the camera using an appropriate cable (at least Cat-5e) to the GigE board on your PC.
- If required, connect a trigger and / or flash to process interface.
- · Connect the camera to power supply.

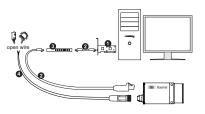


Installation sample

- 1 PCI board; 2 GigE cable;
- 3 Power cable / Digital-IO; 4 Digital-IO

Installation of cameras with 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.



Installation sample

- 1 PCI board;
- 2 GigE cable;
- 3 PoE capable ethernet switch or Baumer PoE components;
- 4 Cable for trigger and flash