Baumer

Quick Start Guide
VEXG cameras (Gigabit Ethernet)

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

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

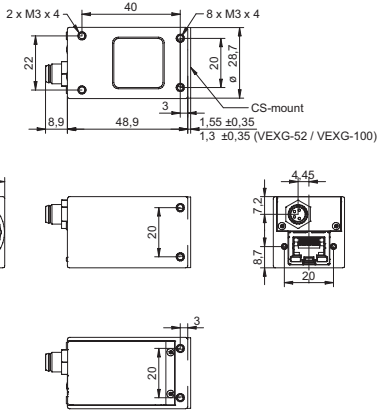
Product Specification

VEXG cameras – Integrating essential basic functionalities

- up to 10 Megapixel
- up to 217 fps
- 29 × 29 mm housing with all-sided M3 mount
- Global shutter architecture for minimized motion blur
- Rolling shutter sensors with Global Reset for cost effective applications
- Integrating essential basic functionalities
- GigE Vision™ standard compliant

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

Dimensions



Safety

Conformity

CE

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

RoHS COMPLIANT

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

KC

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

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

Safety Precautions

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

Caution
Observe precautions for handling electrostatically sensitive devices!

- Protect the sensor from dirt and moisture.
- Do not allow the camera to become contaminated with foreign objects.

Environmental Requirements

Storage temp.	-10 °C ... +70 °C
Operating temp.	see Heat Transmission
Humidity	10 % ... 90 % Non-condensing

System Requirements

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

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!

Further Information

For further information about our products, please visit www.baumer.com
For technical issues, please contact our technical support:
support.cameras@baumer.com · Phone +49 (0)3528 4386-845 · Fax +49 (0)3528 4386-86

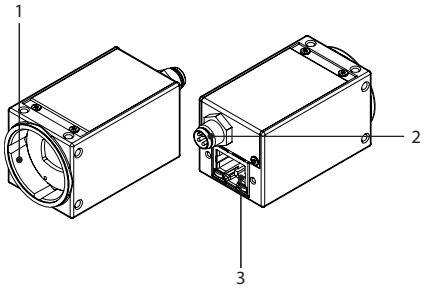
Technical data has been fully checked, but accuracy of printed matter is not guaranteed.
The information in this document is subject to change without notice.

Printed in Germany 10/18. v17 11164110

GiGE VISION

GEN<i>CAM

General Description



No.	Description	No.	Description
1	Lens mount (C-mount)	3	Ethernet Port / Signaling LED's
2	Power supply / Digital-IO		

Data Interface / Digital IOs

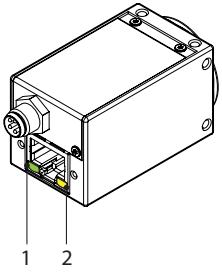
8P8C mod jack with LEDs

1	green/white	MX1+	(negative / positive V_{port})
2	green	MX1-	(negative / positive 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-IOs (on camera side)
wire colors on connecting cable (ordered separately)

1	Power VCC	brown	**3**	GND	blue
2	IN1 (Line0)	white	**4**	OUT1 (Line1)	black

LED signals



LED	Signal	Meaning
1	green static	link active
	green flash	receiving
2	yellow static	error
	yellow flash	transmitting

Power Supply

Power Supply	
Power Supply	VCC: 12 … 24 VDC ± 20%

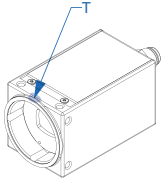
Heat Transmission

Caution

Heat can damage the camera. Heat must be dissipated adequately to ensure that the temperature does not exceed the values in the table below.

As there are numerous possibilities for installation, Baumer recommends no 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

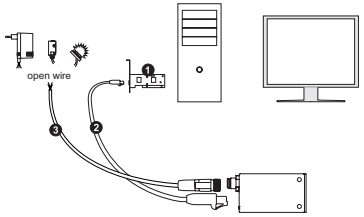


Measurement Point	Maximum Temperature
Measurement Point (T)	65 °C (149 °F) VEXG-100 / VEXG-52: 60 °C (140 °F)

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