Baumer

Quick Start Guide
EXG cameras (Gigabit Ethernet)

Latest software version and technical documentation available at:

vt.baumer.com

Conformity

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

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

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

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

FCC – Class B device

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occure in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off an on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety Precautions

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
Operating temp.	+5°C ... +50°C
Housing temp.	max. +50°C
Humidity	10 % ... 90 % Non-condensing

Further Information

For further information on our products visit www.baumeroptronic.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

Technical data has been fully checked, but accuracy of printed matter not guaranteed.
Subject to change without notice. Printed in Germany 03/18. v14 11037878

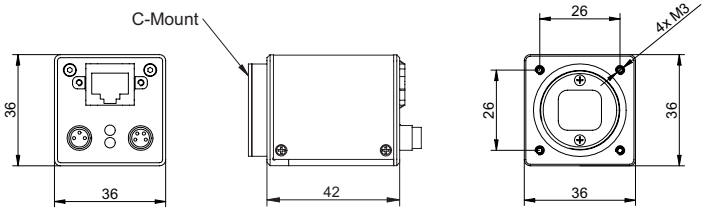
Product Specification

EXG series – State-of-the-art CMOS Matrix Cameras

- Simple integration by GigE Vision® compliance
- Resolution up to 5.0 megapixels in color and monochrome
- Innovative technology with High Dynamic Range (HDR), Auto-Exposure and Auto-Gain
- Minimal dimensions with 36 x 36 x 42 mm

Camera Type	Sensor Size	Resolution	Full Frames [max. fps]
Monochrome / Color			
EXG03 / EXG03c	1/3"	752 x 480 / 748 x 476	60
EXG50 / EXG50c	1/2.5"	2592 x 1944	14

Dimensions



GigE Vision GENICAM

Tested according to standard EMVA 1288

System Requirements

	Single-camera system		Multi-camera system	
	Minimum	Recommended	Minimum	Recommended
CPU	Intel® Pentium®4 or comparable processor	Intel® Core™ Duo comparable processor		
Clock	2.5 GHz	> 2.5 GHz	2.5 GHz	3 GHz
RAM	1024 MB	2048 MB	2048 MB	> 2048 MB
Operating system (OS)	Microsoft® Windows® XP incl. Service Pack 2 or higher Microsoft® Windows® XP x64 incl. Service Pack 2 or higher Microsoft® Windows Vista™ 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 (optional)	Windows® OS: .NET™ Framework 2.0 or higher Linux® OS: Mono 1.2.4 or higher			

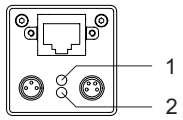
Process and Data Interfaces

8P8C mod jack			M8 3 pins			M8 4 pins		
1	(gn/wh)	MX1+	1	(bn)	Power V_{CC}	1	(bn)	TrigIN+
2	(gn)	MX1-	3	(bu)	GND	2	(wh)	TrigIN-
3	(og/wh)	MX2+	4	(bk)	NC	3	(bu)	$Flash_{out}$
4	(bu)	MX3+				4	(bk)	U_{ext}
5	(bu/wh)	MX3-						
6	(og)	MX2-						
7	(bn/wh)	MX4+						
8	(bn)	MX4-						

Power Supply	
Power V_{CC}	8 VDC ... 30 VDC
Current I	620 mA ... 120 mA
Power consumption P	approx. 3.5 ... 6 W

Further technical details available in the respective data sheets.

LED Signaling

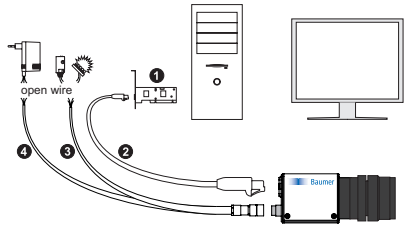


LED	Signal	Meaning
1	green	Power on
	yellow	Readout active
2	green	Link active
	green flash	Receiving
	yellow	Transmitting
	yellow / red flash	Receiving and Transmitting

Installation

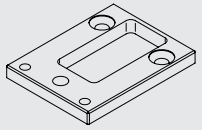
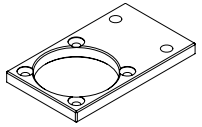
Installation of standard cameras:

- Connect the camera using an appropriate cable (at least Cat-5e) to the GigE board on your PC (8P8C mod jack)
- If required, connect a trigger and / or flash to the 4-pin M8 male connector
- Connect the camera to power supply



Installation sample
1 - PCI board; 2 - GigE cable;
3 - Cable for trigger and flash; 4 - Power cable

Mounting Adapters

	Name	Item-No.
	Tripod mounting adapter	11003060
	Front mounting adapter	11002638