Baumer

Quick Start Guide
VisiLine IP Cameras (Gigabit Ethernet)

Latest software version and technical documentation are available at:

www.baumer.com/vision/login

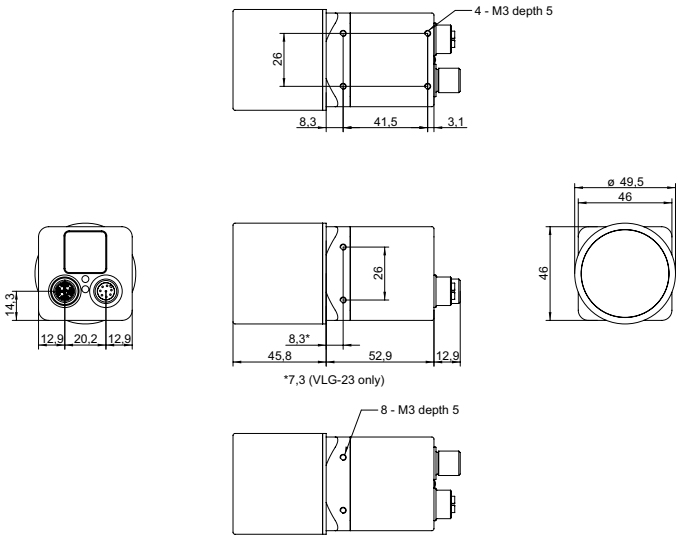
Product Specification

VisiLine IP – Innovative functionality / flexible installation

- Protection class: IP65/67
- 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 (monochrome / color)			
VLG-02M.I / VLG-02C.I	1/4"	656 x 490	160
VLG-12M.I / VLG-12C.I	1/3"	1288 x 960	42
VLG-20M.I / VLG-20C.I	1/1.8"	1624 x 1228	27
CMOS Sensor (monochrome / color)			
VLG-22M.I / VLG-22C.I	2/3"	2044 x 1084	55
VLG-23M.I / VLG-23C.I	1/1.2"	1920 x 1200	53
VLG-40M.I / VLG-40C.I	1"	2044 x 2044	29

Dimensions



Safety

Conformity:
CE, RoHS

CE

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

RoHS

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

Safety Precautions

Notice

See User´s Guide for the complete safety instructions!

- Protect the sensor from dirt and moisture.
- Avoid camera contamination by foreign objects.

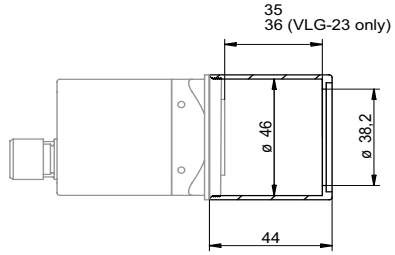
Environmental Requirements

Storage temp.	-25°C ... +70°C
Operating temp.	see Heat Transmission
Humidity	10 % ... 95 % Non-condensing

System Requirements

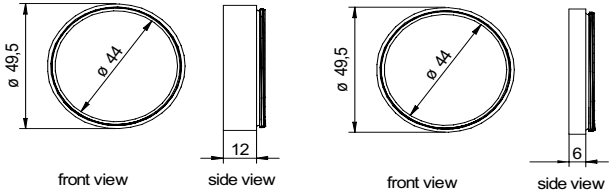
	Single-camera system		Multi-camera system	
	Minimum	Recommended	Minimum	Recommended
CPU	Intel® Pentium®4 or comparable processor	Intel® Core™ Duo comparable processor		
Clock	2.5 GHz	> 2.5 GHz	2.5 GHz	3 GHz
RAM	1024 MB	2048 MB	2048 MB	> 2048 MB
Operating system (OS)	Microsoft® Windows® XP incl. Service Pack 2 or higher Microsoft® Windows® XP x64 incl. Service Pack 2 or higher Microsoft® Windows Vista™ 32 / 64 bit systems 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 (optional)	Windows® OS: .NET™ Framework 2.0 or higher Linux® OS: Mono 1.2.4 or higher			

Dimensions



Art. No.: 11088325

optional



Art. No.: 11089149

Art. No.: 11115649

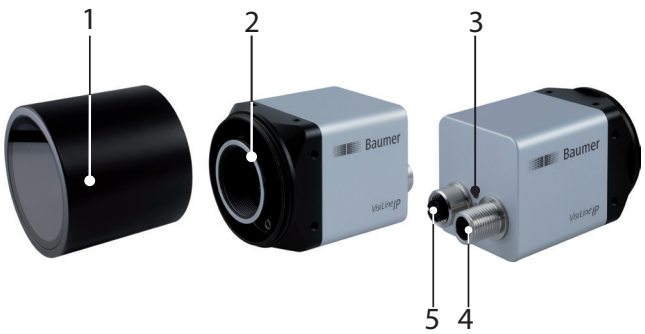
Further Information

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

11110650

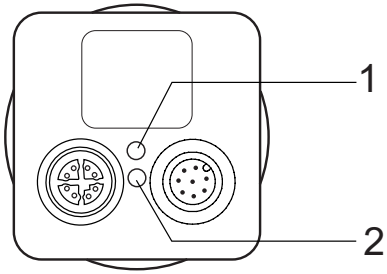
GiGE VISION GENICAM

General Description



No.	Description	No.	Description
1	Tube	**4**	Power Supply / Digital-IO
2	C-Mount lens connection	**5**	Data- / PoE-Interface
3	LED´s		

LED Signaling



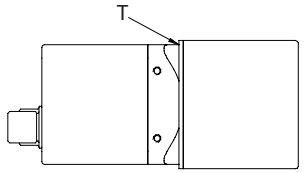
LED	Signal	Meaning
1	green	Link active
	green flash	Receiving
	red flash	Transmitting
2	green	Power
	red	Readout active

Heat Transmission

Caution

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

As there numerous possibilities for installation, Baumer do not specifiy a specific method for proper heat dissipation.



Measure Point	Maximal Temperature
T	50°C (122°F)

Data Interface / Process- / Power-Interface

Notice

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

Data- / PoE- Interface (wire colors of the connecting cable*)			Process- / Power- Interface (wire colors of the connecting cable)		
					
1	D1+	white/orange	1	OUT 3	white
2	D1-	orange	2	Power VCC+	brown
3	D2+	white/green	3	IN1	green
4	D2-	green	4	IO GND	yellow
5	D4+	white/brown	5	U_{ext} OUT	grey
6	D4-	brown	6	OUT 1	pink
7	D3-	white/blue	7	Power GND	blue
8	D3+	blue	8	OUT 2	red

*Phoenix cable / other cable may differ

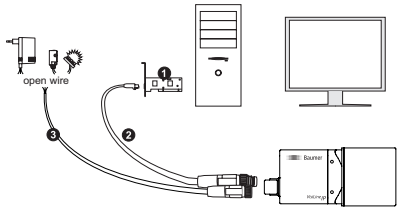
Notice

Further technical details, e.g. the electrical data, are available in the respective data sheets.

Installation

Installation of the camera:

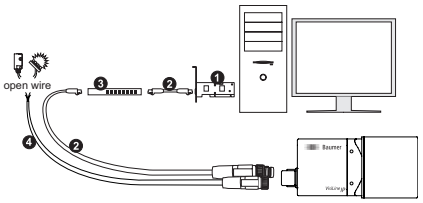
- Connect the camera using an appropriate cable (at least Cat-5e) to the GigE board on your PC.
- If required, connect a trigger and / or flash to process interface.
- Connect the camera to power supply.



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

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