



[Quick Start Guide](#)  
LXC cameras (Camera Link®)

Latest software version and technical documentation are available at:

[www.baumer.com/vision/login](http://www.baumer.com/vision/login)

## Product Specification

### LXC cameras – Extremely high resolution and speed

- Camera Link® progressive scan CMOS camera
- Excellent image quality
- Global shutter architecture for minimized motion blur
- Binning and true partial scan function (ROI) for increased frame rates
- High Dynamic Range (HDR) image acquisition
- External synchronization via industrial compliant process interface (trigger / flash)
- Power over Camera Link® (PoCL) support
- Two standard 26 pin Mini-Camera Link® connectors
- Support for Camera Link® Base, Medium, Full and EightyBit configurations
- Camera parameter programmable via GenCP protocol

Camera Type	Sensor Size	Resolution	Full Frames [max. fps]
<b>Monochrome / Color</b>			
LXC-20M / C	2/3"	2048 × 1088	337
LXC-40M / C	1"	2048 × 2048	180
LXC-120M / C	APS-C	4096 × 3072	63
LXC-200M / C	35 mm	5120 × 3840	32
LXC-250M / C	APS-H	5120 × 5120	32

#### Notice

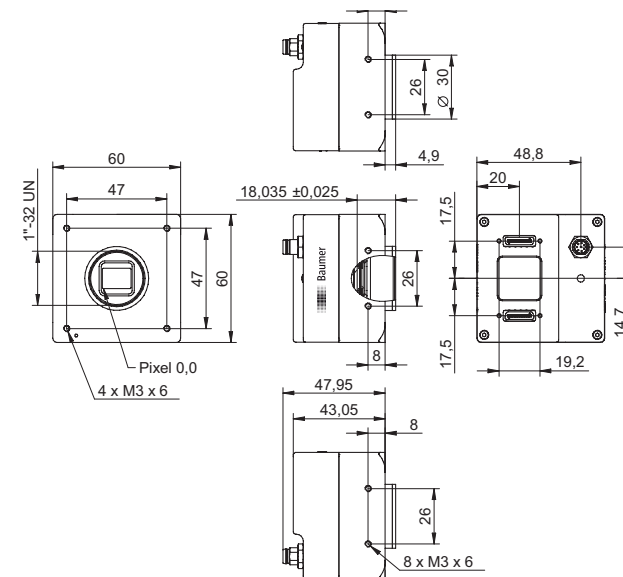
Further technical details are available in the respective data sheet.



## Dimensions Camera LXC-20 / 40

### Notice

LXC-20 and LXC-40 have a C-mount interface only.



## Conformity / Safety

Conformity:  
CE, RoHS



### CE

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

### RoHS

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

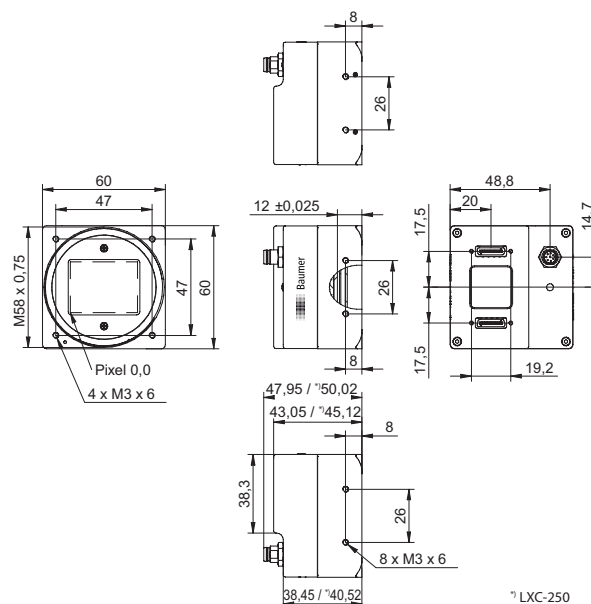
### Safety Precautions

- 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

## Dimensions Camera LXC-120 / 200 / 250



7 LXC-250

## Lens Adapter for LXC-120 / 200

- Adapter M58 / F-mount  
(Art. No.: 11117852)
- Adapter M58 / M42x1-mount (26.8mm)  
(Art. No.: 11127232)
- Adapter M58 / M42x1-mount (45.5 mm)  
(Art. No.: 11137781)

### Notice

suitable for Zeiss (e.g. Distagon T\* 2/25 Z-M42-I, Planar T\* 1.4/50 Z-M42-I, Makro-Planar T\* 2/50 Z-M42-I) and KOWA M42 lenses (e.g. LM28LF P-Mount, LM35LF P-Mount)

- Adapter M58 / C-mount  
(Art. No.: 11115198)

## Further Information

For further information on our products visit [www.baumer.com](http://www.baumer.com)

For technical issues, please contact our technical support:

[support.cameras@baumer.com](mailto:support.cameras@baumer.com) · Phone +49 (0)3528 4386-0 · Fax +49 (0)3528 4386-86

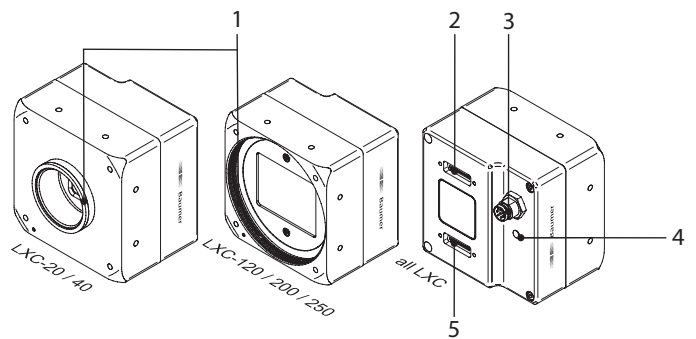
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Technical data has been fully checked, but accuracy of printed matter not guaranteed.

Subject to change without notice. Printed in Germany 10/16. v1.2

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General Description



No.	Description	No.	Description
1	LXC-20 / 40 C-mount only	4	Signaling-LED
	LXC-120 / 200 / 250 lens mount (M58), adapter for other lens mounts available		
2	Camera Link® socket (Base)	5	Camera Link® socket (Medium / Full / EightyBit)
3	Power Supply / Digital-IO		

Camera Link® sockets

Notice

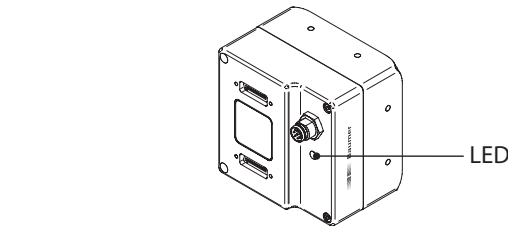
The camera has two Camera Link® sockets. To differentiate between Camera Link® socket, please look at the label. You can not use the CL Medium / Full / EightyBit socket alone!

Notice

To use Power over Camera Link® (PoCL, 12V DC ± 20%), both Camera Link® sockets must be used.

Camera Link® (Base)				Camera Link® (Medium / Full / EightyBit)			
Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	14	GND	1	GND	14	GND
2	X0-	15	X0+	2	Y0-	15	Y0+
3	X1-	16	X1+	3	Y1-	16	Y1+
4	X2-	17	X2+	4	Y2-	17	Y2+
5	XCLK-	18	XCLK+	5	YCLK-	18	YCLK+
6	X3-	19	X3+	6	Y3-	19	Y3+
7	SERTC+	20	SERTC-	7	100 Ω term.	20	100 Ω term.
8	SERTFG-	21	SERTFG+	8	Z0-	21	Z0+
9	CC1-	22	CC1+	9	Z1-	22	Z1+
10	CC2+	23	CC2-	10	Z2-	23	Z2+
11	CC3-	24	CC3+	11	ZCLK-	24	ZCLK+
12	CC4+	25	CC4-	12	Z3-	25	Z3+
13	GND	26	GND	13	GND	26	GND

LED Signaling



	Signal	Meaning
LED	green on	Power on, link good
	green blinking	Power on, no link
	red on	Error / Overtemperature
	red blinking	Boot proess or Warning (update in progress, don't switch off)
	yellow	Readout active

Power Supply and Process Interface

Power Supply / Digital-IO

M8 / 8 pins wire colors of the connecting cable

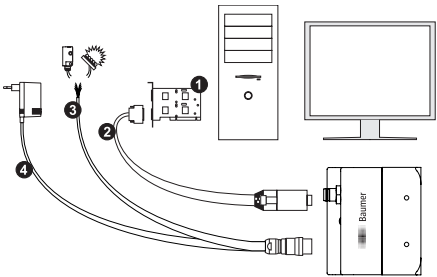
1	white	not in use
2	brown	Power VCC+
3	green	IN 1 (line 0)
4	yellow	IO GND
5	grey	IO Power VCC
6	pink	OUT 1 (line 1)
7	blue	Power GND
8	red	not in use

Power Supply	
Power VCC	12 VDC ... 24 VDC ± 20%

Installation

Installation using  
Camera Link® Base:

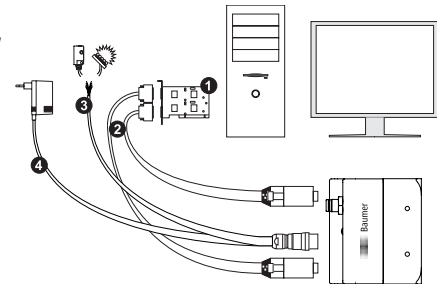
- Connect the camera using an appropriate cable to the framegrabber board on your PC using the lower sdr-26 jack on the camera side
- If required, connect a strobe to the connector
- Connect the camera to power supply



Installation sample  
1 - Framegrabber board; 2 - CameraLink® cable;  
3 - Process interface cable; 4 - Power cable

Installation using  
Camera Link® Medium / Full /  
EightyBit:

- Connect the camera using two appropriate cables to the framegrabber board on your PC.
- If required, connect a strobe to the connector
- Connect the camera to power supply



Installation sample  
1 - Framegrabber board; 2 - CameraLink® cable;  
3 - Process interface cable; 4 - Power cable

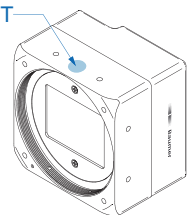
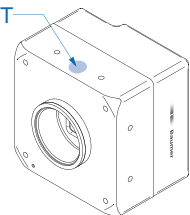
Heat Transmission

Caution

Provide adequate dissipation of heat, to ensure that the temperature does not exceed +50 °C (+122 °F). 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



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