

## Line Scan Camera SK8100GJRC-4L

CCD



Gigabit  
ETHERNET

Digital Triple-Line CCD color camera with 3 x 5360 RGB pixels  
24 MHz pixel frequency, integration control



### ■ Sensor Characteristics

Sensor type:	CCD, Color
Pixel number:	3 x 2700
Pixel size:	8 x 8 $\mu\text{m}^2$
Active sensor length:	21.6 mm
Pixel frequency:	24 / 15 MHz
Max. line frequency:	2.865 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 700 nm
Dynamic range:	1:2000 (rms)
Line spacing (RGB):	64 $\mu\text{m}$
Line color sequence:	red (R), blue (B), green (G)

### ■ Mechanical data

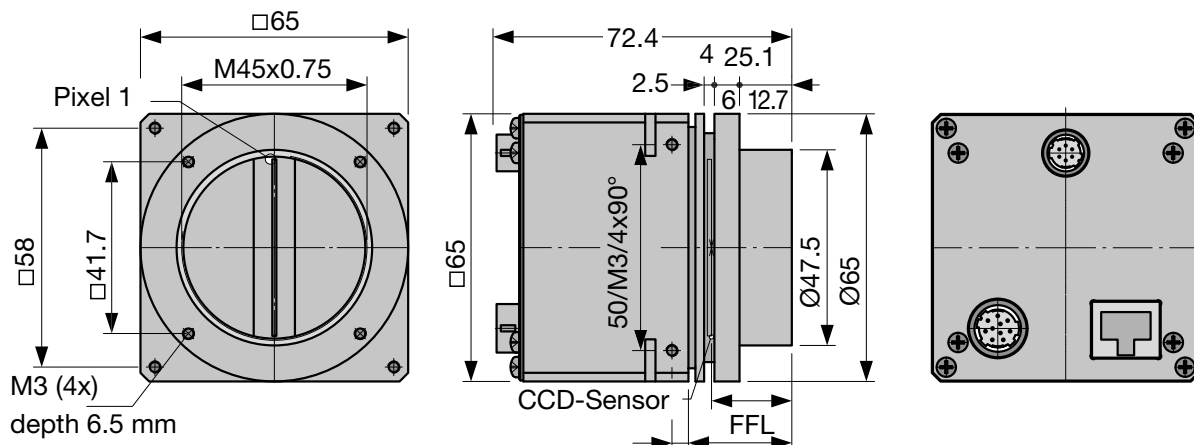
Case type:	BG3
Size:	65 mm x 65 mm x 72.4 mm
Mass:	0.3 kg
Lens mount:	M45x0.75
Flange focal length (FFL):	19.5 mm
Seat for bracket:	$\text{Ø}47.5\text{ mm}$

### ■ Functioning Features


Blooming protection:	-
Integration control:	x
Shading correction:	x
Look-up table:	x
Region of interest (ROI):	x
Thresholding:	-
Temperature sensor:	x
External synchronization:	x
Operating temperature:	+5 ... +45°C

### ■ Connections

Interface:	GigaBit Ethernet RJ-45 (8P8C)
Video signals:	color 8/12 Bit digital
Power supply:	24V DC, 3.6 W Hirose 10A, 4-pin, male
External synchronization:	TTL Hirose 10A, 12-pin, male



## Software



**Software**

**SK91GigE-WIN** Order Code


SDK from Schäfter + Kirchhoff including the **SKLineScan** operating program, as well as API, C++ class library and examples.

Operating systems:  
Windows 7 / 8.1 / 10 - x64 and x86

**SK91GigE-LV VI** Order Code

VI-Library for LabVIEW®, requires **SK91GigE-WIN**

## Accessories




**CAT6 Network cable**

Shielded CAT6 patch cable, halogen-free, both ends with RJ45 connectors for Gigabit Ethernet

**CAT6.x** Order Code

└ cable length 3 / 5 / 10 m or length according to choice, max. 100 m




**Power cable SK9014.xF**

for GigE Vision™ line scan cameras with 24 VDC supply voltage.

Shielded cable with Hirose plug HR10A, female 6-pin (camera side), and open-ended cable.

**SK9014.xF** Order Code

└ cable length 1.5 / 3 / 5 m




**External synchronization cable SK9024...**

for line scan cameras with GigE / GigE Vision™ interface.

Shielded cable with Hirose plug HR10A, female 12-pin (camera side), and Phoenix 4-pin connector incl. terminal block.

**SK9024.x** Order Code

└ cable length 3 / 5 m  
Other lengths on request



**Adapter cable for sync signals CAB-ADSync-BNC-1**

BNC/SMA (3x) to line scan camera synchronization cable SK9016/SK9024/SK9026.

Shielded cable, length 0.25 m

Connectors:  
1x Phoenix 4-pin connector  
3x SMA plug (Line Sync A, Line Sync B, Frame Sync)  
3x adapter SMA socket (outside thread) to BNC-plug

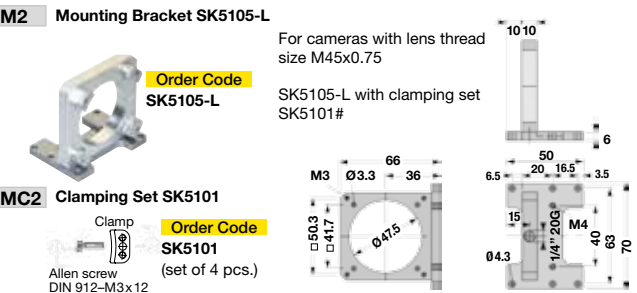
**CAB-ADSync-BNC-1** Order Code

**M2 Mounting Bracket SK5105-L**

For cameras with lens thread size M45x0.75

**SK5105-L** Order Code

SK5105-L with clamping set SK5101#

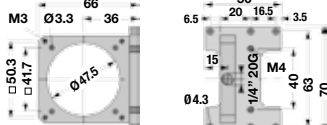


**MC2 Clamping Set SK5101**

Clamp Order Code

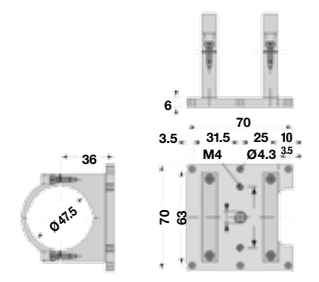
**SK5101** (set of 4 pcs.)

Allen screw DIN 912-M3x12



**M4 Mounting System SK5105-2L**

**SK5105-2L** Order Code



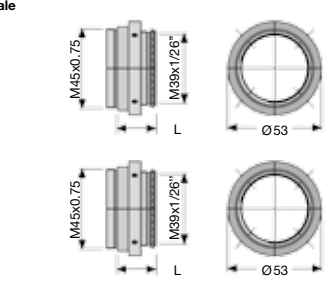
For camera configurations with tube length > 55 mm using extension rings **ZR-L**

**FA3 Focus adapter L-Mount (M39x1/26" Leica)**

any rotation angle adjustable (V-groove)  
attachment thread M45x0.75, male

**FA22R-45** Order Code  
length L: 22 ... 32 mm

**FA22RL-45** Order Code  
length L: 29 ... 38 mm




**A3 Lens Adapter F-Mount**

for line scan cameras with case type **Axx** or **BGx**.

**AOC-F-...** Order Code

Attachment thread:  
45 = M45x0.75  
40 = M40x0.75  
32 = M32x0.75  
C = C-Mount 1"-32-TP



**ZR-L Extension rings M45x0.75**

attachment threads M45x0.75 male/female

**ZR-L.25** Order Code

└ 15 = Length 15 mm  
25 = Length 25 mm  
60 = Length 60 mm  
87 = Length 87 mm

