

## Line Scan Camera SK1024GPD-4

CCD

monochrome

Gigabit  
ETHERNET

Digital camera with 50 MHz digital output  
and very high line frequencies



### Sensor Characteristics

Sensor type:	CCD, Monochrome
Pixel number:	1024
Pixel size:	10 x 10 $\mu\text{m}^2$
Active sensor length:	10.24 mm
Pixel frequency:	50 / 25 MHz
Max. line frequency:	45 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 1000 nm
Dynamic range:	1:1500 (rms)

### Mechanical data

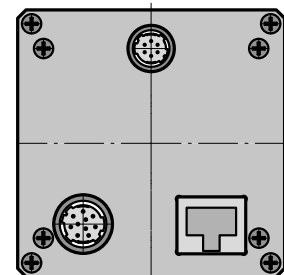
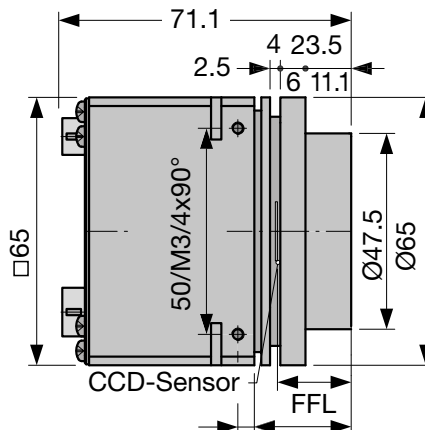
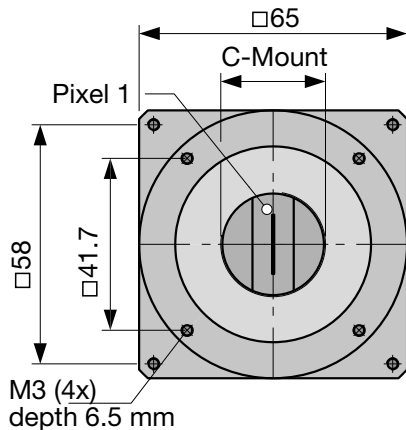
Case type:	BG1
Size:	65 mm x 65 mm x 71.1 mm
Mass:	0.3 kg
Lens mount:	C-Mount
Flange focal length (FFL):	17.53 mm
Seat for bracket:	$\varnothing 47.5$ mm

### Functioning Features


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

### Connections

Interface:	GigaBit Ethernet
	RJ-45 (8P8C)
Video signals:	monochrome 8/12 Bit digital
Power supply:	24V DC, 4.8 W @ 50 MHz
	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. 100m




**Power cable SK9014.xF**

for GigE Vision™ line scan cameras with 24VDC 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 0.25m

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

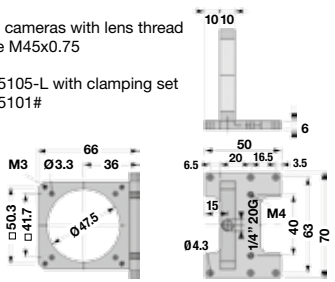
**CAB-ADSync-BNC-1** Order Code

**M2 Mounting Bracket SK5105-L**

For cameras with lens thread size M45x0.75

**SK5105-L** Order Code

SK5105-L with clamping set SK5101#

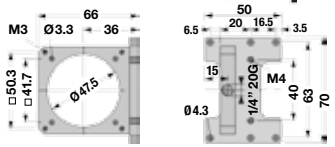


**MC2 Clamping Set SK5101**

**SK5101** Order Code

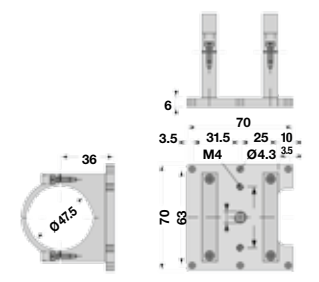
(set of 4 pcs.)

Allen screw DIN 912-M3x12



**M4 Mounting System SK5105-2L**

**SK5105-2L** Order Code



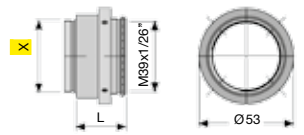
For camera configurations with tube length > 55 mm using extension rings **ZR-L**

**FA1 Focus adapter FA22...**

**FA22-x** Order Code

42 = M42 x 1  
40 = M40 x 0.75  
39 = M39x1/26"  
32 = M32 x 0.75  
C = C-Mount

length L: 22 ... 32mm




**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 Extension rings L-Mount (M39x1/26" Leica)**

attachment threads M39x1/26" male/female

**ZR 10** Order Code

10 = Length 10 mm  
15 = Length 15 mm  
20 = Length 20 mm  
50 = Length 50 mm

