

Line Scan Camera SK1024GSD-4

CCD

monochrome

Gigabit
ETHERNET

Line scan camera with 28 kHz maximum line rate, large dynamic range, anti blooming and integration control.



Sensor Characteristics

Sensor type:	CCD, Monochrome
Pixel number:	1024
Pixel size:	14 x 14 μm^2
Active sensor length:	14.3 mm
Pixel frequency:	30 / 20 MHz
Max. line frequency:	28 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 1000 nm
Dynamic range:	1:2000 (rms)

Mechanical data

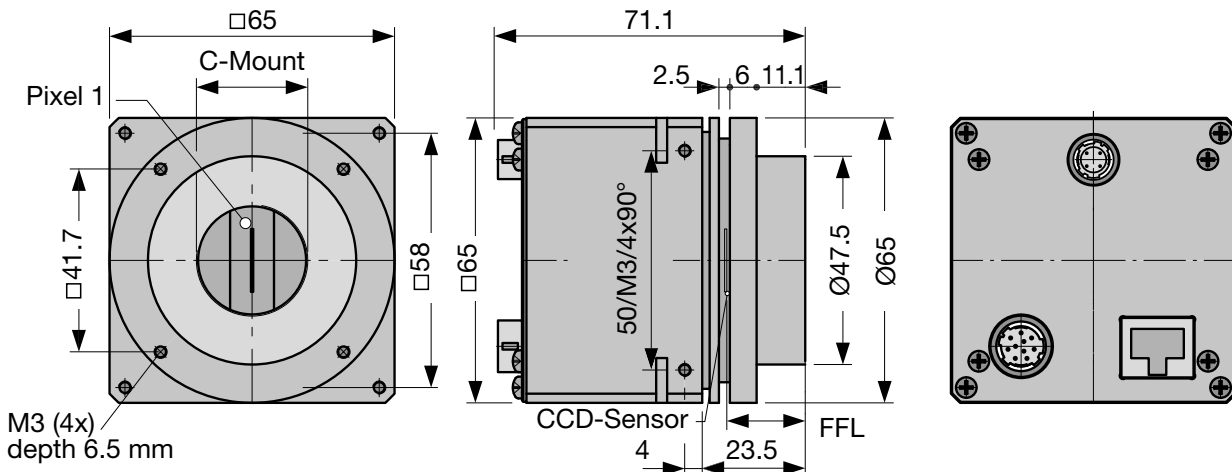
Case type:	BG1
Size:	65 mm x 65 mm x 71.1 mm
Mass:	0.3 kg
Lens mount:	C-Mount
Flange focal length (FFL):	17.53 mm
Seat for bracket:	$\text{Ø}47.5\text{ mm}$

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, 3.8 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. 100m



Power supply unit PS243005

Input: 100-240 VAC, 0.8A, 50/60 Hz
IEC 60320 C14 coupler (for IEC C13 power cord)


Output: +24VDC, 3.0A
Cable length: 1 m, with XLR connector type NC6FFX

PS243005 Order Code

Power cord IEC 60320 C13, 1.5 m, 10 A, 250 VAC

PC150DE Order Code

└─ DE = Europe / US = USA, Canada, Japan / UK = United Kingdom




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




Power cable SK9014.xMF

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

Shielded cable with Hirose plug HR10A, female 6-pin (camera side), and XLR connector type NC6MXX (power supply unit side).

SK9014.xMF Order Code

└─ cable length 1.5 / 3 / 5 m




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



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

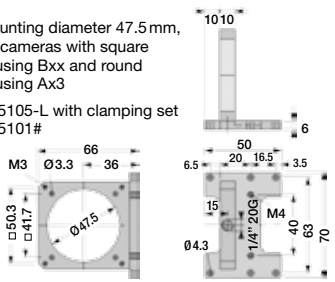
└─ cable length 1.5 / 3 / 5 m

M2 Mounting Bracket SK5105-L

Mounting diameter 47.5 mm, for cameras with square housing Bxx and round housing Ax3

SK5105-L Order Code

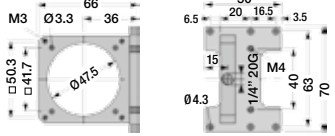
SK5105-L with clamping set SK5101#



MC Clamping Set SK5101

Clamp **SK5101** Order Code

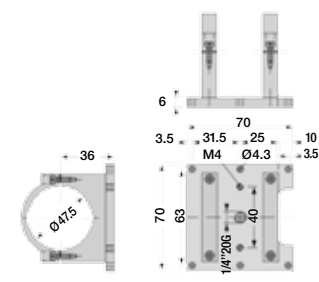
Allen screw DIN 912-M3x12 (set of 4 pcs.)



M4 Mounting System SK5105-2L

SK5105-2L Order Code

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

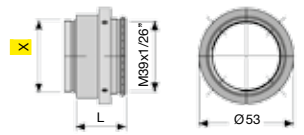


FA1 Focus adapter FA22...

FA22-x Order Code

42 = M42 x 1
40 = M40 x 0.75
39 = M39 x 1/26"
32 = M32 x 0.75
C = C-Mount

length L: 22 ... 32mm



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

