

Line Scan Camera SK2048VJR-4L

CCD

monochrome



Line scan camera with high sensitivity and 4.7 kHz maximum line rate.



Sensor Characteristics

| | |
|------------------------|-------------------------|
| Sensor type: | CCD, Monochrome |
| Pixel number: | 2048 |
| Pixel size: | 14 x 14 μm^2 |
| Active sensor length: | 28.7 mm |
| Pixel frequency: | 10 MHz |
| Max. line frequency: | 4.7 kHz |
| Min. integration time: | 0.01 ms |
| Max. integration time: | 20 ms |
| Spectral range: | 400 - 900 nm |
| Dynamic range: | 1:625 (rms) |

Mechanical data

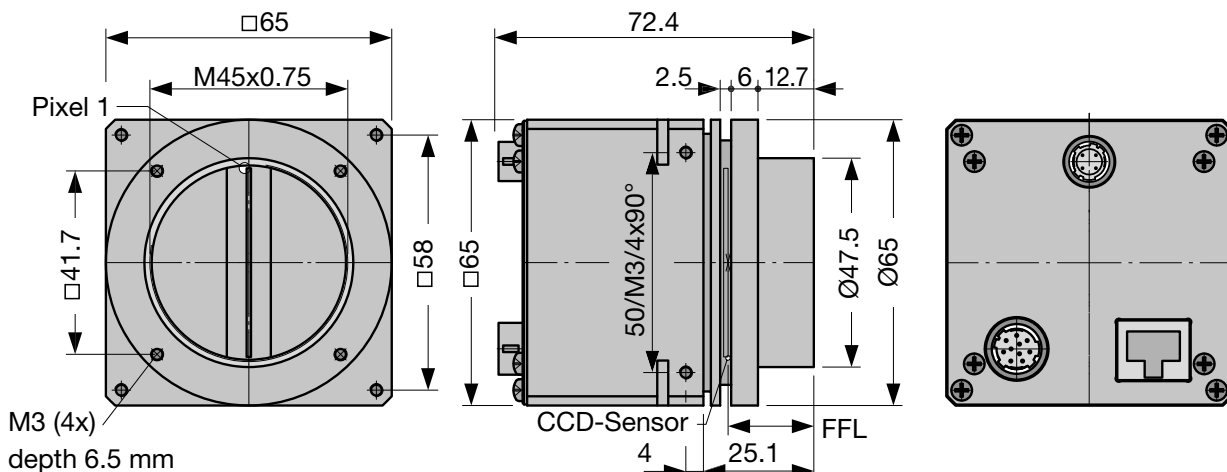
| | |
|----------------------------|-------------------------|
| Case type: | BG3 |
| Size: | 65 mm x 65 mm x 72.4 mm |
| Mass: | 0.3 kg |
| Lens mount: | M45x0.75 |
| Flange focal length (FFL): | 19.5 mm |
| Seat for bracket: | $\text{Ø}47.5$ mm |

Functioning Features

| | |
|---------------------------|--------------|
| Anti blooming: | - |
| 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: | GigE Vision |
| | 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



The Schäfter + Kirchhoff GigE Vision™ line scan cameras use the Gigabit Ethernet communication protocol and are 100% compliant with the GigE Vision™ specifications and the Gen<i>CAM™ standard. They implement a superset of the Gen<i>CAM™ specification which defines the device capabilities. The settings are made in the device feature list of any Gen<i>CAM™ compliant software.

The Gen<i>Cam™ standard provides a generic programming interface for all kinds of cameras and, no matter what features they implement, the application programming interface (API) always remains the same.

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 supply unit PS243005

Input: 100-240 VAC, 0.8 A, 50/60 Hz
IEC 60320 C14 coupler (for IEC C13 power cord)
Output: +24V DC, 3.0 A
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 24 VDC supply voltage.

Shielded cable with Hirose plug HR10A, female 4-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 0.25 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**

Power cable SK9014.xF

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

Shielded cable with Hirose plug HR10A, female 4-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

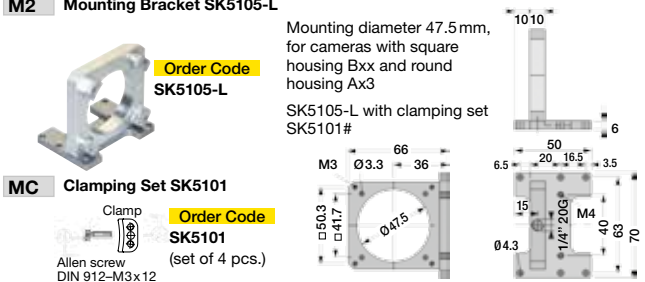
SK5105-L **Order Code**

SK5105-L with clamping set SK5101#

MC Clamping Set SK5101

Clamp **Order Code** SK5101 (set of 4 pcs.)

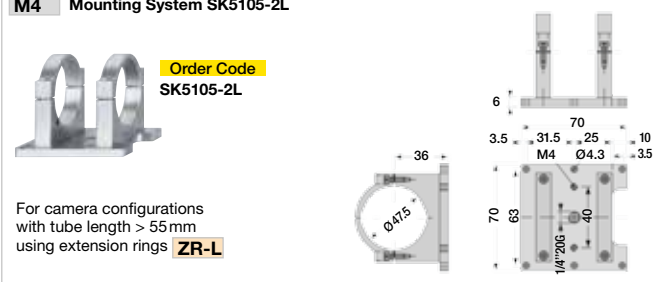
Allen screw DIN 912-M3x12



M4 Mounting System SK5105-2L

Order Code SK5105-2L

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

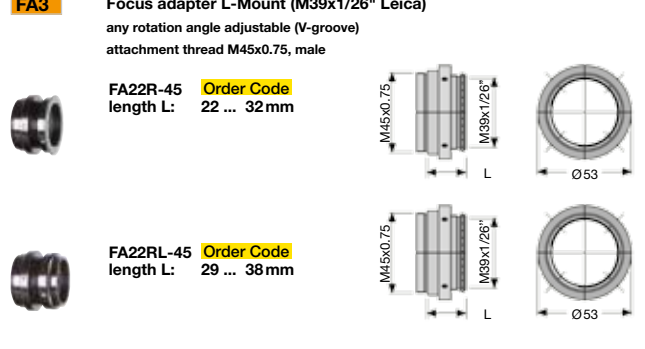


FA3 Focus adapter L-Mount (M39x1/26° Leica)

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

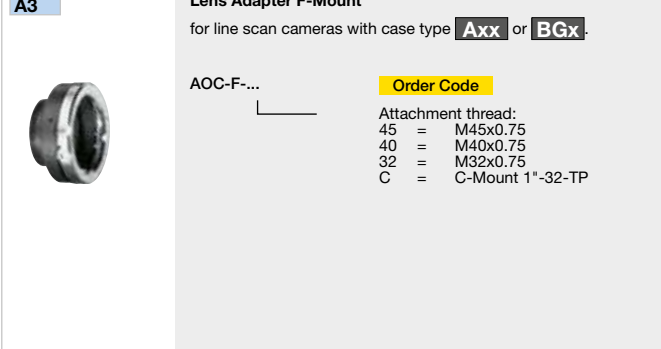


A3 Lens Adapter F-Mount

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

