

## Line Scan Camera SK7456VTO-4L

CCD

monochrome



Line scan camera with high sensitivity, small pixel size and short sensor length, 5.2 kHz maximum line rate.



### Sensor Characteristics

Sensor type:	CCD, Monochrome
Pixel number:	7456
Pixel size:	4.7 x 4.7 $\mu\text{m}^2$
Active sensor length:	35.04 mm
Pixel frequency:	40 / 20 MHz
Max. line frequency:	5.2 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 900 nm
Dynamic range:	1:1000 (rms)

### Mechanical data

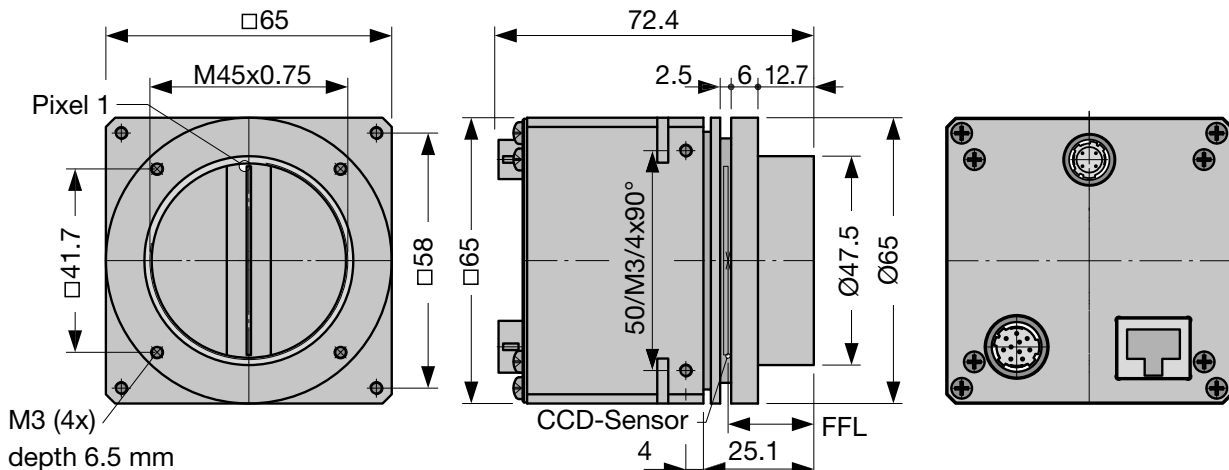
Case type:	BG3
Size:	65 mm x 65 mm x 72.4 mm
Mass:	0.3 kg
Lens mount:	M45x0.75
Flange focal length (FFL):	19.5 mm
Seat for bracket:	$\text{Ø}47.5$ mm

### Functioning Features

Anti blooming:	-
Integration control:	-
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, 4.0 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>i>Cam™ standard. They implement a superset of the Gen<i>i>Cam™ specification which defines the device capabilities. The settings are made in the device feature list of any Gen<i>i>Cam™ compliant software.

The Gen<i>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 V AC**

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





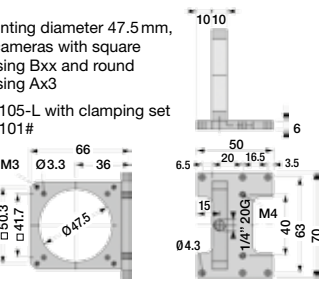
**M2 Mounting Bracket SK5105-L**

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

SK5105-L with clamping set SK5101#

**MC Clamping Set SK5101**


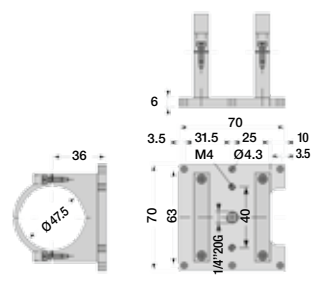
Clamp **Order Code** SK5101 (set of 4 pcs.)  
Allen screw DIN 912-M3x12

**M4 Mounting System SK5105-2L**

**Order Code** SK5105-2L

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



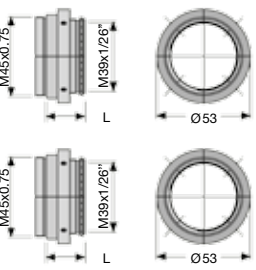



**FA3 Focus adapter L-Mount (M39x1/26° Leica)**

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

