

Line Scan Camera SK512VSD-4

CCD

monochrome

GigE
VISION
GEN i CAM

Digital camera with large dynamic range and high line frequency, anti blooming and integration control.



Sensor Characteristics

Sensor type:	CCD, Monochrome
Pixel number:	512
Pixel size:	14 x 14 μm^2
Active sensor length:	7.17 mm
Pixel frequency:	30 / 15 MHz
Max. line frequency:	50 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 1000 nm
Dynamic range:	1:2000 (rms)

Mechanical data

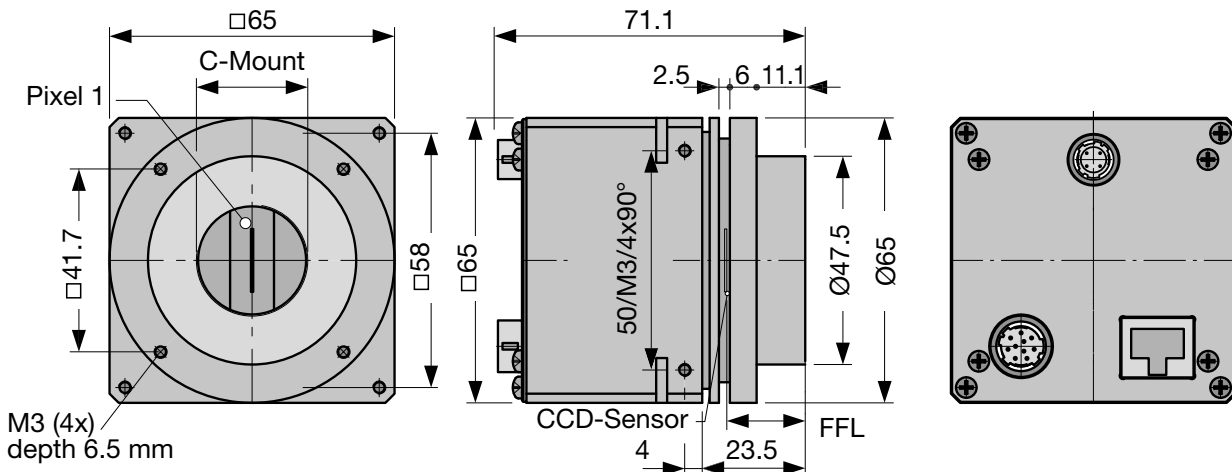
Case type:	BG1
Size:	65 mm x 65 mm x 71.1 mm
Mass:	0.3 kg
Lens mount:	C-Mount
Flange focal length (FFL):	17.53 mm
Seat for bracket:	$\varnothing 47.5$ mm

Functioning Features

Anti blooming:	x
Integration control:	x
Shading correction:	x
Look-up table:	x
Region of interest (ROI):	x
Thresholding:	-
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, 3.5 W @ 30 MHz 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. 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 / 5m



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

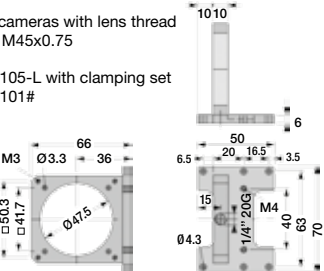
CAB-ADSync-BNC-1 **Order Code**

M2 Mounting Bracket SK5105-L
For cameras with lens thread size M45x0.75

Order Code SK5105-L
SK5105-L with clamping set SK5101#


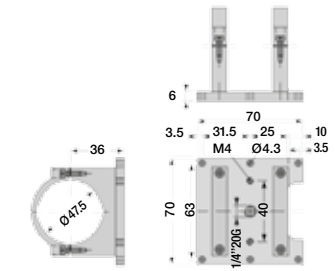



MC Clamping Set SK5101
Clamp **Order Code SK5101** (set of 4 pcs.)
Allen screw DIN 912-M3x12



M4 Mounting System SK5105-2L

Order Code SK5105-2L


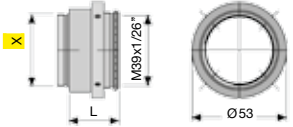



For camera configurations with tube length > 55 mm using extension rings **ZR-L**

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

