

## Line Scan Camera SK1024VSD

CCD

monochrome



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



### Sensor Characteristics

Sensor type: CCD, Monochrome
Pixel number: 1024
Pixel size: 14 x 14 $\mu\text{m}^2$
Active sensor length: 14.3 mm
Max. pixel frequency: 30 MHz
Max. line frequency: 27 kHz
Min. integration time: 0.01 ms
Max. integration time: 20 ms
Spectral range: 400 - 1000 nm
Dynamic range: 1:2000 (rms)

### Mechanical data

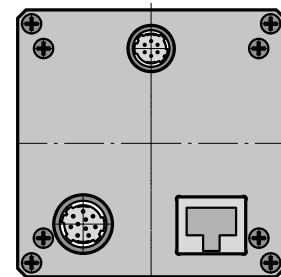
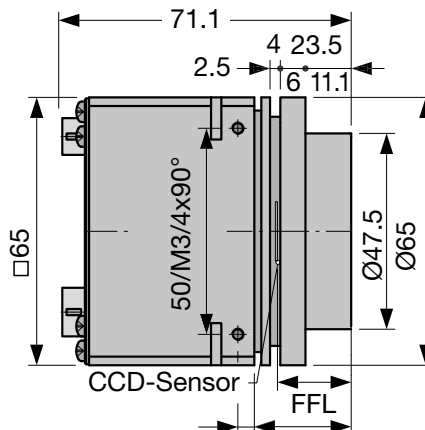
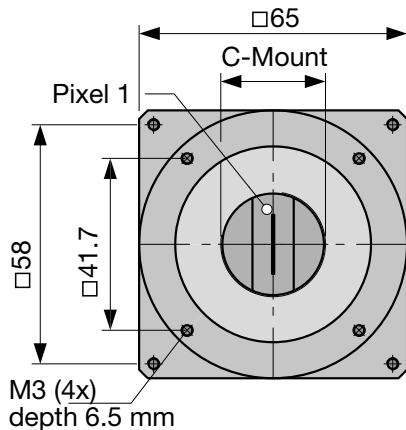
Case type: BG1
Size: 65 mm x 65 mm x 71.1 mm
Mass: 0.3 kg
Lens mount: C-Mount
Flange focal length (FFL): 17.53 mm
Seat for bracket: $\text{Ø}47.5\text{ mm}$

### Functioning Features

Blooming protection: 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: +5/+15V DC 3.0 W
Hirose 10A, 6-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. 100m

**Power supply unit PS051515**

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

Output: +5VDC, 2.5 A / +15VDC, 0.5 A / -15VDC, 0.3 A  
Cable length: 1 m, with Lumberg connector KV60, female 6-pin

PS051515 **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 SK9015.x**

for GigE Vision™, CameraLink and externally supplied USB3 line scan cameras.

Shielded cable with Hirose plug HR10A, female 6-pin (camera side), and Lumberg SV60, male 6-pin connector (power supply unit side).

SK9015.x **Order Code**

\_\_\_\_\_ cable length 0.2 / 1.5 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**

**M2 Mounting Bracket SK5105-L**

For cameras with lens thread size M45x0.75

SK5105-L with clamping set SK5101#

**MC2 Clamping Set SK5101**

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

**M4 Mounting System 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 ... 32 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 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