

## Line Scan Camera SK12240VKOC-LB

CCD



Digital Triple-Line CCD color camera with 3 x 4080 RGB pixels, anti-blooming, integration control.



### ■ Sensor Characteristics

Sensor type:	CCD, Color
Pixel number:	3 x 4080
Pixel size:	10 x 10 $\mu\text{m}^2$
Active sensor length:	40.8 mm
Max. pixel frequency:	60 MHz
Max. line frequency:	4.8 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 700 nm
Dynamic range:	1:2500 (rms)
Line spacing (RGB):	90 $\mu\text{m}$
Line color sequence:	green (G), red (R), blue (B)

### ■ Mechanical data

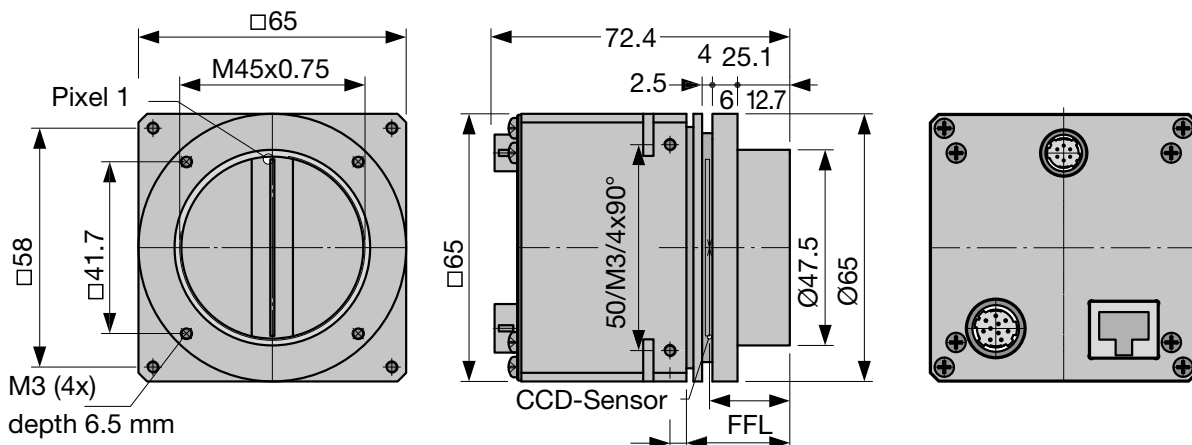
Case type:	BG3
Size:	65 mm x 65 mm x 72.4 mm
Mass:	0.3 kg
Lens mount:	M45x0.75
Flange focal length (FFL):	19.5 mm
Seat for bracket:	$\text{Ø}47.5$ mm

### ■ Functioning Features

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:	color 3*8 Bit digital
Power supply:	+5/+15V DC 7.2 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. 100 m

**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 **Order Code** 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**

**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

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