

## Line Scan Camera SK7500VTF-4XB

CCD

monochrome



Line scan camera with 8.26 kHz maximum line rate, high resolution and high sensitivity.



### ■ Sensor Characteristics

Sensor type:	CCD, Monochrome
Pixel number:	7496
Pixel size:	7 x 7 $\mu\text{m}^2$
Active sensor length:	52.5 mm
Pixel frequency:	65 / 15 MHz
Max. line frequency:	8.26 kHz
Min. integration time:	0.01 ms
Max. integration time:	20 ms
Spectral range:	400 - 900 nm
Dynamic range:	1:1000 (rms)

### ■ Mechanical data

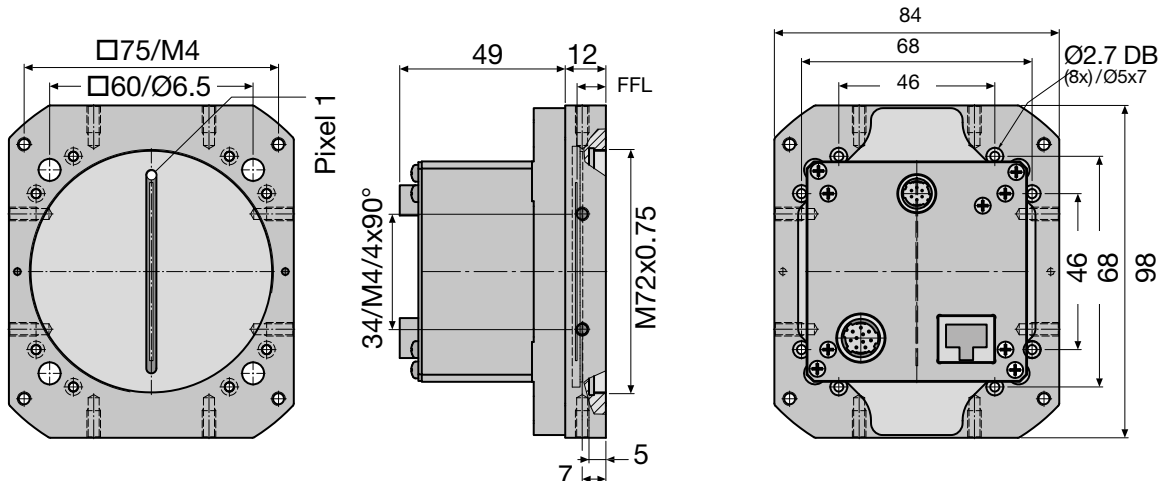
Case type:	EG5
Size:	84 mm x 98 mm x 62 mm
Mass:	0.4 kg
Lens mount:	M72x0.75
Flange focal length (FFL):	8 mm
Seat for bracket:	$\varnothing 0$ mm

### ■ 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, 7.0 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 NC6FXX

**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


DE US UK



**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

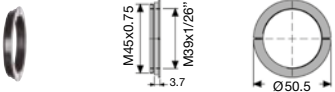


**Focus Adapter FA26-Sx**  
High-precision adapter with linear tracking rods for precise travel of the focussing encasement and for locking focus position. Focussing range 29 mm, 1 turn of the focussing ring corresponds to 10 mm. Screws for focus locking.


**FA26-Sx** **Order Code**  
45 = thread M45x0.75  
length 40.5 ... 69.5 mm  
55 = thread M55x0.75  
length 51 ... 80 mm

**Lens Adapters and Extension Rings M45x0.75**

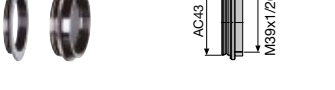
**Lens Adapter M45x0.75 to M39x1/26 (Leica)**  
**Order Code**  
**M39-45**  
length L=3.7 mm



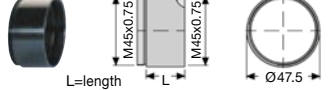
**Adapter M45x0.75 46 mm to AM43**  
**Order Code**  
**AM43-M45-S** L=20 mm  
**AM43-M45** L=35 mm  
The AM43-M45 accepts the V-groove lens adapter M39x26G-AC43.



**Lens Adapter V-Groove AC43 to M39x1/26"**  
**Order Code**  
**M39x26G-AC43-S** L=1.5 mm  
**M39x26G-AC43** L=8.2 mm



**Extension Ring M45x0.75**  
**ZR-L...** **Order Code**  
15 = length 15 mm  
25 = length 25 mm  
60 = length 60 mm  
87 = length 87 mm

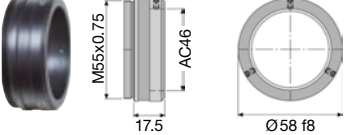


**Lens Adapters and Extension Rings M55x0.75**

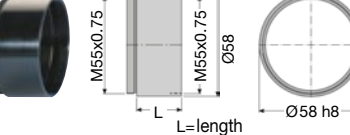
**Lens adapter 46 mm V-groove – M55x0.75**  
for macro lens inspec.x L5.6/105

**AC46-55** **Order Code**

The Adapter AC46-55 adds 17.5 mm to the optical tube length. It accepts the AC46 V-groove of the Inspec.x macro lenses.



**Extension Ring M55x0.75**  
**ZR55-...** **Order Code**  
15 = length 15 mm  
25 = length 25 mm  
60 = length 60 mm



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