Line Scan Camera SK7500CTF-XB

High resolution CCD camera with 80 MHz pixel frequency

Specifications

Sensor type:	CCD Monochrome Sensor
Pixel number:	7500
Pixel size:	7 x 7 µm²
Pixel distance:	7 µm
Active sensor length:	52.5 mm
max. pixel frequency:	80 MHz
max. line frequency:	10.1 kHz
Anti blooming:	-
Integration Control:	-
Shading correction:	x
Threshold mode:	-
Spectral sensitivity:	400 - 900 nm
Dynamic range:	1:1000 (rms)

min. exposure time:	0.121 ms
max exposure time:	20 ms
Video signals:	monochrome 8/12 Bit digital
Signal in/out:	Camera Link
Power supply:	+5V, +15V
Size:	84 mm x 98 mm x 42.5 mm
Case type:	EC5
Mass:	0.4 kg
Lens mount:	M72x0.75
Flange focal length:	8 mm
Operating temperature:	+5 ... +45°C

Dimensions

EC5

Lens mount:	M72x0.75
Flange focal length:	FFL = 8 mm

□75/M4
□60/Ø6.5

30 12
FFL

34/M4/4x90°

M72x0.75

7 5

84
68
□60/6.5
Ø2.7 DB
(8x) /Ø5x7

46
68
98

Schäfter + Kirchhoff © 2016 • Line Scan Camera SK7500CTF-XB (09.2016)

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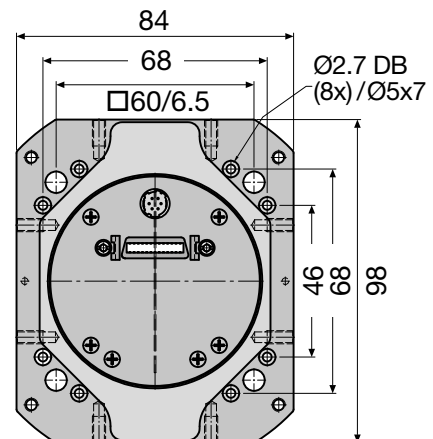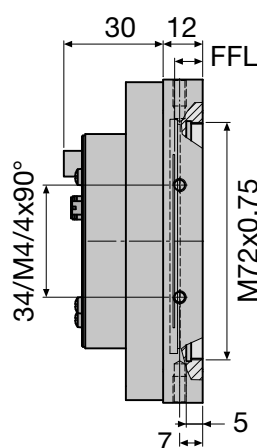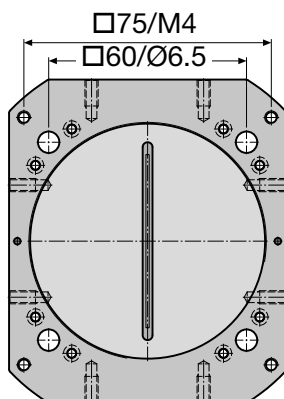
Features

- **Extended Trigger Functions**
  Direction of movement or slippage can be detected by using two external synchronization signals.

- **Shading Correction Memory (SCM) and Look-Up Table (LUT) options**
  The calibration data in the SCM automatically adjusts the line signal data directly in the camera after each exposure.
  The LUT is a separate memory block that can also be used for postprocessing the line signal data, such as applying a Gamma function.

- **Window-Function**
  The line signal data to be transferred can be restricted to a defined section of the line sensor.

- The **Gains or Offsets** for all AD-converter channels can be **adjusted simultaneously**, simplifying handling.

- **Integrated Temperature Sensor**

Accessories

Power supply unit PS051515

Input:	100-240 VAC, 0.8 A, 50/60 Hz
	IEC 60320 C14 coupler (for IEC C13 power cord)
Output:	+5 VDC, 2.5 A / +15 VDC, 0.5 A / -15 VDC, 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 V AC

PC150DE   `Order Code`
　　　└── **DE** = Europe / **US** = USA, Canada, Japan /
　　　　　UK = United Kingdom

DE　US　UK

Control cable SK9018...

26-pin shielded cable, both ends with mini-ribbon connector (male 26-pin)

SK9018.x-MM   `Order Code`
　　└── MM = connector both ends male
　　　　cable length 3 / 5 m or
　　　　length according to choice, max. 10 m

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

Focus Adapter FA26-Sx   `Order Code`

High-precision adapter with linear tracking rods for precise travel of the focussing encasement and for locking focus position. Focussing range 30 mm, 1 turn of the focussing ring corresponds to 10 mm. Screws for focus locking.

FA26-Sx   `Order Code`
　└── 45 = thread M45x0.75
　　　55 = thread M55x0.75

Lenses
- high resolution scan and macro lenses

Lens Adapters, thread M45x0.75
- M39x1/26" / AC43

Lens Adapters, thread M55x0.75
- M55x1/26" / AC46

Extension rings, thread M45x0.75
ZR-L-x   `Order Code`
　└── length 15 / 25 / 60 / 87 mm

Extension rings, thread M55x0.75
M55-L-x   `Order Code`
　└── length 15 / 25 / 60 mm

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