

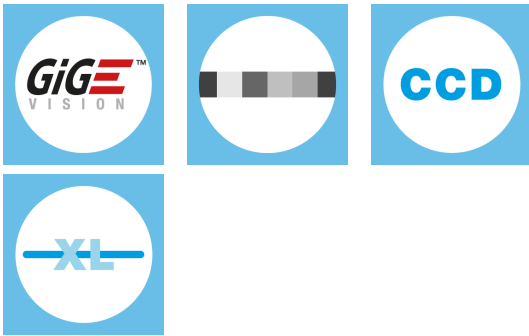
SK7500VTF-4XB

Monochrome Line Scan Camera, GigE Vision



FEATURES

- Pixel number: 7496
- Pixel dimensions: $7 \times 7 \mu\text{m}^2$
- Max. line frequency: 10.1 kHz
- Spectral range: 400 - 900 nm
- Shading correction



DESCRIPTION

The monochrome SK7500VTF-4XB line scan camera is equipped with a 7496 pixel CCD sensor. The maximum line frequency is 10.1 kHz. The camera operates with 18-36 V DC supply voltage.

Features

All lenses show some vignetting as a function of the field angle. Hence, even with homogeneous object illumination, the signal intensity of the image decreases with increasing image height. Shading correction (or flat field compensation) is used to compensate for lens vignetting as well as for inhomogeneity in the illumination.

Synchronization

Line scan cameras have to be externally synchronized in order to obtain distortion-free images. There are two different synchronization functions that can be applied together or individually:

1. Line Synchronization triggers each individual exposure of the sensor line by line. Several operating modes are available for this: Free run, Line Start, Exposure Active.
2. Frame Synchronization is the recording of a set of lines (frame) representing a two dimensional image. The trigger is activated either by an external control signal or by exceeding an adjustable signal threshold.

Lenses and Adapters

The lens or tube attachment is M72x0.75. Adapters are available for other dimensions, see Accessories.

Software and SDK

SKLineScan is an operation program with a graphical user interface for system setup and simple scanning tasks. It is free for use and is applicable both for optimal adjustment of the optical system and for parameterization of the camera.

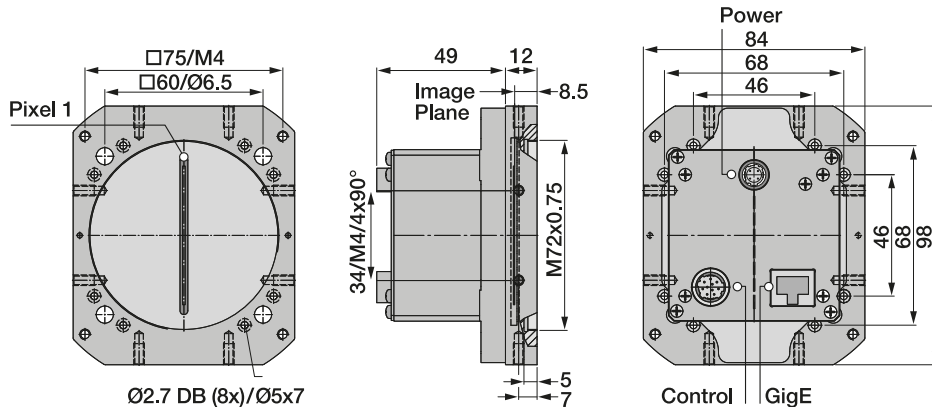
The software development kit (SDK) SK91USB3-WIN is based on C++ and includes examples for C/C++ with Visual Studio. Supported operating systems are Windows 10 (32- or 64-bit), Windows 11.

TECHNICAL DATA

SK7500VTF-4XB

Order Code	SK7500VTF-4XB
Sensor type	CCD monochrome sensor
Pixels	7496
Pixel size	7 x 7 μm^2
Active sensor length	52.5 mm
Max. pixel frequency	80 MHz
Max. line frequency	10.1 kHz
Shading correction	x
Spectral range	400 - 900 nm
Dynamic range	1:200 (rms)
Min. exposure time	0.121 ms
Max. exposure time	20 ms
Video signal	monochrome 8/12 Bit
Interface	GigE Vision
Power supply	18 - 36 V DC
Dimension	84 x 98 x 62 mm ³
Case type	EG5

Weight	0.4 kg
Lens mount	M72x0.75
Flange diameter	0 x 0 mm
Flange focal length	8 mm
Operating temperature	+5 ... +45 °C
Dimensions (for a complete dimensional drawing please refer to the downloads section)	



DOWNLOADS



[SK7500VTF-4XB_DS-E_web.pdf](#)

This is a printout of the page <https://sukhamburg.com/products/details/SK7500VTF-4XB> from 1/13/2026

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