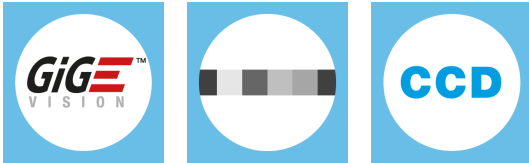


SK1024MVSH

Monochrome Line Scan Camera, GigE Vision

FEATURES

- Pixel number: 1024
- Pixel dimensions: 14 x 14 μm^2
- Max. line frequency: 27 kHz
- Spectral range: 200 - 1000 nm
- Anti-blooming
- Shading correction



DESCRIPTION

The monochrome SK1024MVSH line scan camera is equipped with a 1024 pixel CCD sensor. The maximum line frequency is 27 kHz. The camera operates with 8-16 V DC supply voltage, alternatively with Power over Ethernet (PoE).

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. The sensor has a blooming protection against over exposure. The integration control / electronic shutter function enables to control the exposure time independently from the line frequency.

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, Exposure Start.
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 C-Mount. Adapters are available for other dimensions, see Accessories.

Software and SDK

S+K provides software for Windows und Linux. SKLineScan is an operation program with a grafical 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.

The Linux variant SK91USB3-LX requires at least kernel 3.13.

TECHNICAL DATA

SK1024MVSH

Order Code	SK1024MVSH
Sensor type	CCD monochrome sensor
Pixels	1024
Pixel size	14 x 14 μm^2
Active sensor length	14.3 mm
Max. pixel frequency	30 MHz
Max. line frequency	27 kHz
Anti-blooming	x
Integration control	x
Shading correction	x
Spectral range	200 - 1000 nm
Dynamic range	1:500 (rms)
Min. exposure time	0.01 ms
Max. exposure time	20 ms
Video signal	monochrome 8/12 Bit
Interface	GigE Vision
Power supply	8 - 16 V DC
Dimension	54 x 54 x 74.6 mm ³
Case type	RG1
Weight	0.16 kg
Lens mount	C-Mount
Flange diameter	36 x 14 mm
Flange focal length	17.5 mm

Operating temperature

+5 ... +45 °C

DOWNLOADS



[981112091200.pdf](#)

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