

SVCam-EVO

EVO Camera Link Series

1, 2, 4 and 8 MegaPixel Versions



CAMERA





Technical Highlights/Technical Data

- > Progressive Scan 4-Tap CCD sensors
- > Monochrome and color sensors (Bayer Pattern)
- > Various trigger (int./ext./free running) and exposure modes
- > Adjustable gain
- > Low offset
- > Various binning modes
- > Partial Scan
- > C-Mount
- > Operating temp. range: -10°C (non condensing) to +45°C
- > Power supply: 10 25 V DC

Link (Medium configuration). It is enclosed in a very compact housing.

The camera is designed to reach high frame rates due to high speed Camera

Correlated Double Sampling (CDS) and 4 x 14 Bit A/D converters guarantee an excellent signal-to-noise ratio.

The internal FPGA allows different ways to adjust the exposure time and select trigger modes including:

- > Synchronization of image capture to an external event (trigger mode)
- > "Free running" with maximum frame rate
- > Exposure time control via Remote interface or by trigger pulse width
- > Longer exposure times under low light level conditions

The family concept of SVCam series (see separate datasheet) allows to upgrade systems in order to meet new specific requirements.

If the frame grabber in use supports "Power over Camera Link", no extra power supply is required. Only 1 (Base) or 2 (Medium) CL-cables are needed.

- > 8, 10 or 12 Bit data (user selectable)
- > Refers to CameraLink Base and Medium Standard
- > Selectable data rate up to 65 Mhz per Tap
- > Outstanding frame rates possible
- > SW-Config. tool to control the camera via frame grabber interface
- > Power over Camera Link

Scale your vision.

Overview

SVCam-EVO	Camera Link Versions*				
Camera Type	evo1050XFHCPC	evo2050XFHCPC	evo2150XFHCPC	evo4050XFHCPC	evo8050XFHCPC
Resolution	1.024 x 1.024	1.600 x 1.200	1.920 x 1.080	2.336 x 1.752	3.320 x 2.496
Frame Rate (Hz, max.)	190	105	100	50	27
Pixel (µm²)	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5
CCD-Size Equivalent	1/2"	2/3"	2/3"	1"	22.66 mm
Exposure Time int.	6 µs – 2 s	6 µs – 2 s	6 µs – 2 s	6 µs – 2 s	6 µs – 2 s
Exposure Time ext.	6 µs – ∞	6 µs – ∞	6 µs - ∞	6 µs - ∞	6 µs – ∞

Cameras make use of high performance CCD made by Image Sensor Technologies Acq.[®], formerly Kodak (USA). For more camera types see our SVCam-EVO product overview

Operation Modes



Mode: External Trigger, Internal Exposure Control

The camera needs an external trigger to output images. The exposure time is set by the internal logic inside the camera.



Mode: External Trigger, External Exposure Control

The camera needs an external trigger to output images. The exposure time is determined by the pulse width of the trigger signal and can be changed from frame to frame.



Mode: Software Trigger

The PC sends a command to the camera in order to get data. Internal logic is set for the exposure time. Jitter must be observed.

Configuration Software

The SVCam cameras come with our "Convenient Cam"-software, which allows easy interactive setup of all camera parameters. The program runs under Windows XP and Windows 7 including 64 Bit operating system. Independently from "Convenient Cam", the camera can be configured using any terminal software that supports Serial communication.

Dimensions [mm]



Connector pin-out



Ordering Guide

Monochrome:	Color:	
evo1050MFHCPC	evo1050CFHPC	(max. 190 Hz)
evo2050MFHCPC	evo2050CFHPC	(max. 105 Hz)
evo2150MFHCPC	evo2150CFHPC	(max. 100 Hz)
evo4050MFHCPC	evo4050CFHPC	(max. 50 Hz)
evo8050MFHCPC	evo8050CFHPC	(max. 27 Hz)

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