SVCam-hr29050

SVCam-HR Series



Compact 29 Megapixel GigE VISION Camera



A highend resolution of 6.576 x 4.384 pixel makes this digital Machine Vision camera "best in class". Combined with Truesense Imaging 4-Tap Technology it is a real masterpiece of German Engineering.

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

The internal logic allows different ways to adjust 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 serial interface or by trigger pulse width
- > Longer exposure times up to under low light level conditions

The camera can work fully compliant with GigE Vision standard. In addition dual GigE complies with Static Link Aggregation (SLA) standard.



GEN**<i>**CAM

Technical Highlights/Technical Data

- > Progressive Scan technology
- > Resolution: 6.576 x 4.384 pixel
- > Synchronization:
 - "Free running" (frame rate adjustable)
 - · External trigger with internal exposure control
 - External trigger with pulse width exposure control
 Software trigger via PC
- Housing dimensions: 70 mm x 71 mm x 49.8 mm (without lens adapter and connectors)
- > Monochrome and color sensors (Bayer Pattern)
- > Datastream: 8 Bit or 12 Bit video data (see order code)

- > Internal Memory: 256 MB RAM /8 MB Flash + 128 MB Flash
- > Pixel defect correction
- > Internal shading correction
- > Adjustable gain
- > Auto tap balancing
- > Area Of Interest (AOI)
- > M58 x 0.75 Mount (optional F-Mount adapter)
- > Broad voltage input possible (+10V to +25V DC)
- > Operating temperature range (ambient): -10°C to +45°C
- > 2 years warranty

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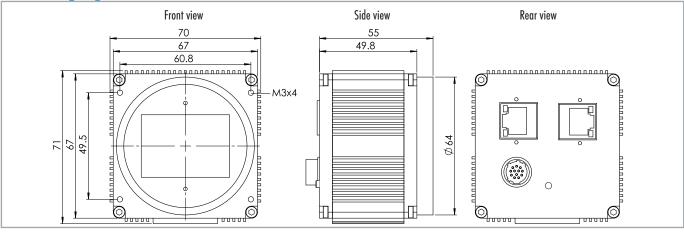
Overview

SVCam-hr29050 Camera Type	GigE Versions	
	hr29050XFLGEA	hr29050XFLGEC
Resolution	6576 x 4384	6576 x 4384
Frame Rate (Hz, max.)	6.2	4.9
Pixel (µm²)	5.5 x 5.5	5.5 x 5.5
CCD-Size Equivalent	43.47 mm diag.	43.47 mm diag.
Exposure Time internal	17 µs - 60 s	22 µs - 60 s
Exposure Time external	17 µs - ∞	22 µs – ∞

X = Monochrome, X = Color

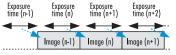
Cameras make use of high performance CCD made by Truesense Imaging, Inc.[®], formerly Kodak (USA). For more camera types see our SVCam-HR product overview.

Dimensions [mm]



Operation Modes





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.



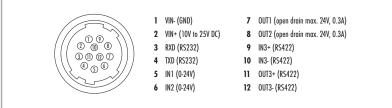
External Trigger, External Exposure Control The camera needs an external trigger to output images. The exposure time is determined by the pulse width of the trigger signal and can be changed from frame to frame.



Software Trigger (GigE only)

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.

Connector pin-out



Configuration Software

The SVCam cameras come with our "SVCapture"-software, which allows easy interactive setup of all camera parameters. The program runs under Windows XP/7 but also 64 Bit mode. Linux is supported as well. A XML file compliant with the GenICam standard is supplied with the camera. The free SDK and API coming with the camera allows easy integration into an application without involving a frame grabber.

Ordering Guide



Option: M58 to F-Mount adapter