

SVCAM-svs285 “U”

Preliminary



Low noise 1.4 megapixel camera

SVS285-12 compact camera is available with 12 bit output at a resolution of 1360 x 1024 pixel. These cameras are designed to reach extraordinary at low noise and are enclosed in a very small housing.

The modular concept of SVCam-CP provides our customers with a fast and low cost way to design customized versions for application specific requirements.

Unique processing of the analogue CCD-signal using Correlated Double Sampling (CDS, a noise reduction method) and digital signal conversion guarantees an excellent signal to noise ratio.

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

- Synchronisation 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
- Extend the exposure under low light level condition

Ask us for other models from VGA up to 16 megapixel.



GigE™
VISION

CAMERA
Link™

- Progressive Scan Technology
- Area of interest (AOI) in GigE version
- Synchronization
 - “free running”
 - external trigger with internal exposure control
 - external trigger with pulse-width exposure control
- Housing Dimensions: 55mm x 50mm x 35mm (e.g. CameraLink)
- Monochrome and color Sensors (Bayer Pattern)
- 12 Bit video data stream (14 Bit ADC used)
- Adjustable Gain
- Low Offset
- 12-8 bit LUT (GigE)
- White balance
- 2 x 2 binning mode (GigE)
- Partial Scan Mode for higher frame rates(CameraLink)
- Standard C-Mount
- 12V DC @ ca. 350mA (CP) and 450 mA (GigE) Power Supply
- Operating Temperature Range, -10° C to +40° C
- Full 2 year warranty

SVCAM285 "U"



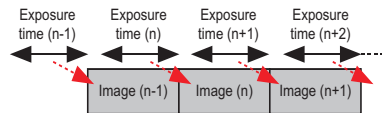
Camera Type	svs285XUCP or 285XUGE	
Resolution	1392 x 1032	
Frame Rate (Hz,max)	33*	
Pixel (μm^2)	6,45 x 6,45	
Exposure Time internal	50 μs - 8s	40 μs -2s
Exposure Time external	20 μs - oo	40 μs -2s
CCD-Size Equivalent	2/3"	

*Clockspeed at 65 Mhz

SVCAM-CP Operation Modes:

Mode: Free Running

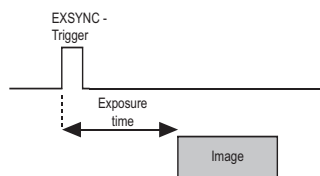
In this mode the camera creates all sync signals itself. The frame rate is at its maximum and there is no need to trigger the camera (



by EXSYNC) in order to get data. Exposure time can be set by using the serial Camera Link interface of any PC. The enclosed software allows the user to set the specified values. Exposure time can be changed online during operation. The time set stays resident after power off.

Mode : External Trigger, Internal Exposure Control

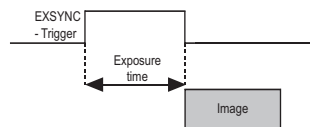
In this mode the camera starts the image acquisition after an external trigger event. The exposure time is controlled by the camera. The value for the exposure time is entered via serial interface over the frame grabber CameraLink connection.



The trigger signal is fed into the camera by the frame grabber or directly to the camera.

Mode : External Trigger, External Exposure Control

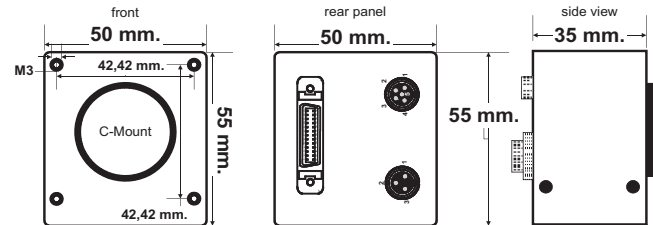
In this mode the camera is waiting for an external trigger which starts integration and read out. Exposure time can be varied using the length of the EXSYNC pulse (i.e. between the high going edge and the low going edge). The time settings in the control software are not activated. This mode is useful in applications where the light level of the scene changes during operation. Change of exposure time is possible from one frame to the next.



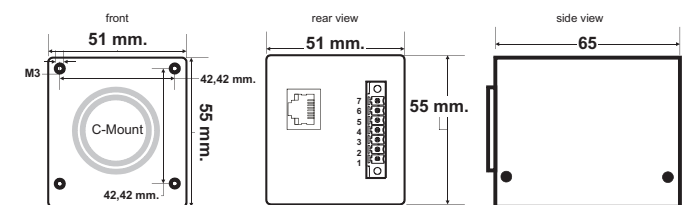
Configuration Software:

The SVCAM Compact Line cameras come with our "Convenient Cam" software, which allows easy interactive setup of all camera parameters. The program runs under Windows XP and, independently from "Convenient Cam", the camera can be configured using any terminal software that supports serial communication. The SVCAM-GigE version use as GUI our "SVCapture" software, with similar functions. It is also compatible with Windows XP, and, independently, the camera can be configured using any GigEvision compliant software.

Dimensions: CameraLink version



Dimensions: GigE version



Ordering Guide:

CameraLink
 Monochrom: svs285 SVS285MUCP
 Color: SVS285CUCP

GigE
 Monochrom: svs285 SVS285MUGE
 Color: SVS285CUGE

Changes without
 notification 15.02.2008

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