

SVCam-evo "Tracer"

SVCam-EVO Series with Micro Four-Thirds Lens Mount



The EVO TRACER - Digital optical interface design integrated in a digital industrial-grade camera. It simply doesn't get any better.

The EVO Tracer combines the cutting-edge attributes of the new SVCam-EVO series with the unique advantages of a standardized Micro Four-Thirds controllable lens mount to give you total control over your imaging environment.

By providing total lens control over the GigE Vision interface directly through the Micro Four-Thirds lens mount for zoom, focus and iris, the EVO Tracer opens up new possibilities in application areas requiring millisecond reaction times.

The EVO Tracer's integrated Micro Four-Thirds lens mount allows you to remotely adjust extremely fast, high quality lenses for best possible FOV, image sharpness, and illumination. It also eliminates the need for cumbersome pig-tail cabling and limiting your choice of lenses designed only for small format and low resolution sensors.



Technical Highlights/Technical Data

The EVO Tracer will guide you to the right image by combining a Micro Four-Thirds Bajonet mount with standard EVO-Series features like these:

- > Newest-generation, 4-tap, high-efficiency, CCD sensors /Truesense Imaging
- > Monochrome and Color
- > Auto-select Single or Dual-Aggregate GigE Vision outputs
- > Full-Frame speeds of 146Hz, 85Hz, 40Hz and 21Hz at 1, 2, 4 and 8 Megapixels respectively
- > Completely Automatic Tap Balance
- > Auto Gain and Exposure control
- > Manual High-Gain Analog and Digital control
- > External event triggering and exposure control
- > Sequence Shutter mode and enhanced Strobe control
- > On-the-fly programmable AOI for higher frame rates and reduced data transfer
- > 3 Inputs and 3 Outputs
- > 2 Outputs for driving LED flash illumination or Pan-Tilt mount (see spec)
- > RS-232 communication for controlling external devices over the GigE interface
- > Standard M12 industry-proven connectors for use with COTS cabling

- > 10-25V DC power input range
- > Completely GigE Vision and Genicam compliant
- > SDK and Drivers for Windows32-bit and 64 bit and Linux

The EVO-Tracer is ideally suited for:

- > Intelligent Transportation Systems: Speeding, Congestion, Tolling, Red Light
- > Surveillance: Container terminals, nuclear power plants and other human restricted areas
- > Robotics: Car body inspection stations, adaptive inspection
- > Military and commercial vehicles: Perimeter Awareness, UAV/UGV/UUV
- > Aerial Imaging: 2D and 3D mapping, environmental inspection
- > Border and Harbor Control: LPR/OCR, intruder detection/recognition
- > Free-flow facial and other Bio-recognition systems
- > Object tracking: people, projectiles, vehicles, animals
- > High-end security/surveillance: Public, military and offshore installations, Homeland Security, law enforcement
- > Welding applications: robot-mounted, remote site, dynamic position
- > Cinematography: Special effects and unique POV
- > and many more ...

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Scale your vision.

Overview

SVCam-EVO Tracer

GigE Versions

Camera Type	evo1050XFLGEA67TR	evo2050XFLGEA67TR	evo2150XFLGEA67TR	evo4050XFLGEA67TR	evo8050XFLGEA67TR	evo1050XFLGEC67TR	evo2050XFLGEC67TR	evo2150XFLGEC67TR	evo4050XFLGEC67TR	evo8050XFLGEC67TR
Resolution	1024 x 1024	1600 x 1200	1920x 1080	2336x 1752	3296 x 2472	1024 x 1024	1600 x 1200	1920x 1080	2336x 1752	3296x 2472
Frame Rate	147	81.8	78	41.6	21.8	121	65.4	62.4	33.2	17.5
Pixel (μm^2)	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	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	1/2"	2/3"	2/3"	1"	22.66 mm	1/2"	2/3"	2/3"	1"	22.66 mm
Exp. Time int.	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s	6 μs - 2 s
Exp. Time ext.	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 μs - ∞	6 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-EVO product overview.

Dimensions [mm]

Front View

Side View

Rear View

Bottom View

Ethernet: Phoenix Contact
Type: SACC-DSIV-FS-8CON-L180-10G SCO
(Mating Connector: VS-08-M12MS-10G-P SCO)

COLOR	PIN M12	PIN RJ45
WHOG	1	1
OG	2	2
WHGN	3	3
BU	8	4
WHBU	7	5
GN	4	6
WHBN	5	7
BN	6	8

Power: Phoenix Contact
Type: SACC-M12-SCO PLUG, SACC-CI-M12MS-12CON-L180 THRSH
(Mating Connector: SACC-M12FS-12SOL-PG9-M)

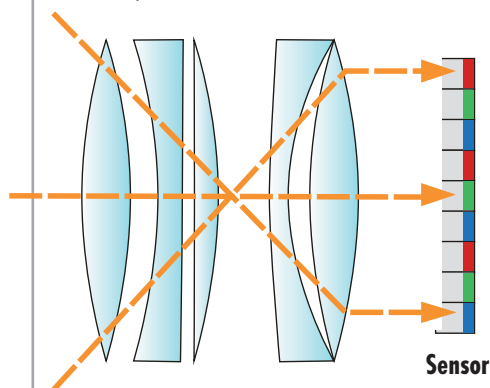
COLOR	PIN
BN	1 VIN+ (10V to 25V DC)
BU	2 VIN- (GND)
WH	3 RXD (RS232)*
GN	4 TXD (RS232)*
PK	5 IN1 (0-24V)
YE	6 IN2 (0-24V)
BK	7 OUT1 (open drain max. 24V, 0.3A)
GY	8 OUT2 (open drain max. 24V, 0.3A)
RD	9 IN3+ (RS422)
VT	10 IN3- (RS422)
GYPK	11 OUT3+ (RS422)
RDBU	12 OUT3- (RS422)

*UART reserved for MFT

Micro Four Thirds

Benefits:

- > The core design concept of the Four Thirds system is to facilitate optimization of the size, performance, and extendibility of digital cameras and lenses.
- > Enjoy the best picture quality and forget about shading and distortion. The Micro Four Thirds Standard guarantees you the maximum performance of the sensor.



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

Monochrome:	Color:	
evo1050MFLGEA67TR	evo1050CFLGEA67TR	(max. 146 Hz / 8 Bit)
evo2050MFLGEA67TR	evo2050CFLGEA67TR	(max. 85 Hz / 8 Bit)
evo2150MFLGEA67TR	evo2150CFLGEA67TR	(max. 80 Hz / 8 Bit)
evo4050MFLGEA67TR	evo4050CFLGEA67TR	(max. 40 Hz / 8 Bit)
evo8050MFLGEA67TR	evo8050CFLGEA67TR	(max. 21 Hz / 8 Bit)
evo1050MFLGEC67TR	evo1050CFLGEC67TR	(max. 120 Hz / 8 and 12 Bit)
evo2050MFLGEC67TR	evo2050CFLGEC67TR	(max. 68 Hz / 8 and 12 Bit)
evo2150MFLGEC67TR	evo2150CFLGEC67TR	(max. 64 Hz / 8 and 12 Bit)
evo4050MFLGEC67TR	evo4050CFLGEC67TR	(max. 32 Hz / 8 and 12 Bit)
evo8050MFLGEC67TR	evo8050CFLGEC67TR	(max. 17 Hz / 8 and 12 Bit)