

# 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 <sup>2</sup> )	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.	4 µs - 1 s	6 µs - 1 s	6 µs - 1 s	6 µs - 1 s	6 µs - 1 s	5 µs - 1 s	8 µs - 1 s	8 µs - 1 s	8 µs - 1 s	8 µs - 1 s
Exp. Time ext.	4 µs - ∞	6 µs - ∞	6 µs - ∞	6 µs - ∞	6 µs - ∞	5 µs - ∞	8 µs - ∞	8 µs - ∞	8 µs - ∞	8 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

**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)

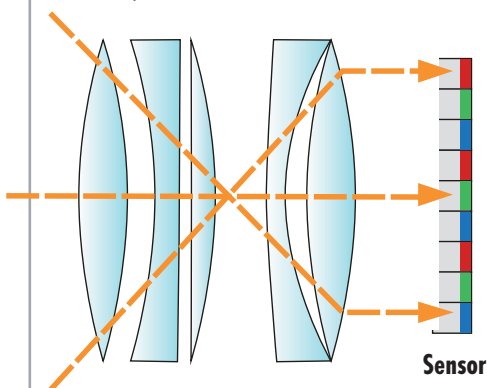
COLOR	PIN
BN	1 VIN+ (10V to 25V DC)
BU	2 VIN- (GND)
WH	3 RXD (RS232)*
GN	4 TXD (RS232)*
PK	5 IN1 (0-24V)
YE	6 IN2 (0-24V)
BK	7 OUT1 (open drain max. 24V, 0.3A)
GY	8 OUT2 (open drain max. 24V, 0.3A)
RD	9 IN3+ (RS422)
VT	10 IN3- (RS422)
GYPK	11 OUT3+ (RS422)
RDBU	12 OUT3- (RS422)

\*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. 147 Hz / 8 Bit)
evo2050MFLGEA67TR	evo2050CFLGEA67TR	(max. 81.8 Hz / 8 Bit)
evo2150MFLGEA67TR	evo2150CFLGEA67TR	(max. 78 Hz / 8 Bit)
evo4050MFLGEA67TR	evo4050CFLGEA67TR	(max. 41.6 Hz / 8 Bit)
evo8050MFLGEA67TR	evo8050CFLGEA67TR	(max. 21.8 Hz / 8 Bit)
evo1050MFLGEC67TR	evo1050CFLGEC67TR	(max. 121 Hz / 8 and 12 Bit)
evo2050MFLGEC67TR	evo2050CFLGEC67TR	(max. 65.4 Hz / 8 and 12 Bit)
evo2150MFLGEC67TR	evo2150CFLGEC67TR	(max. 62.4 Hz / 8 and 12 Bit)
evo4050MFLGEC67TR	evo4050CFLGEC67TR	(max. 33.2 Hz / 8 and 12 Bit)
evo8050MFLGEC67TR	evo8050CFLGEC67TR	(max. 17.5 Hz / 8 and 12 Bit)