










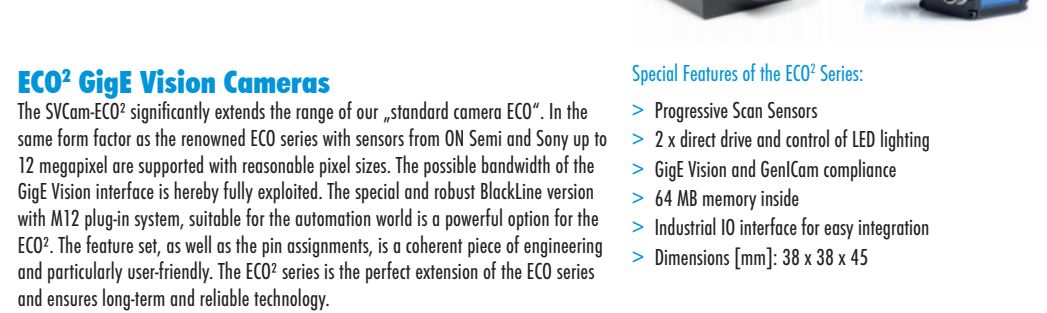








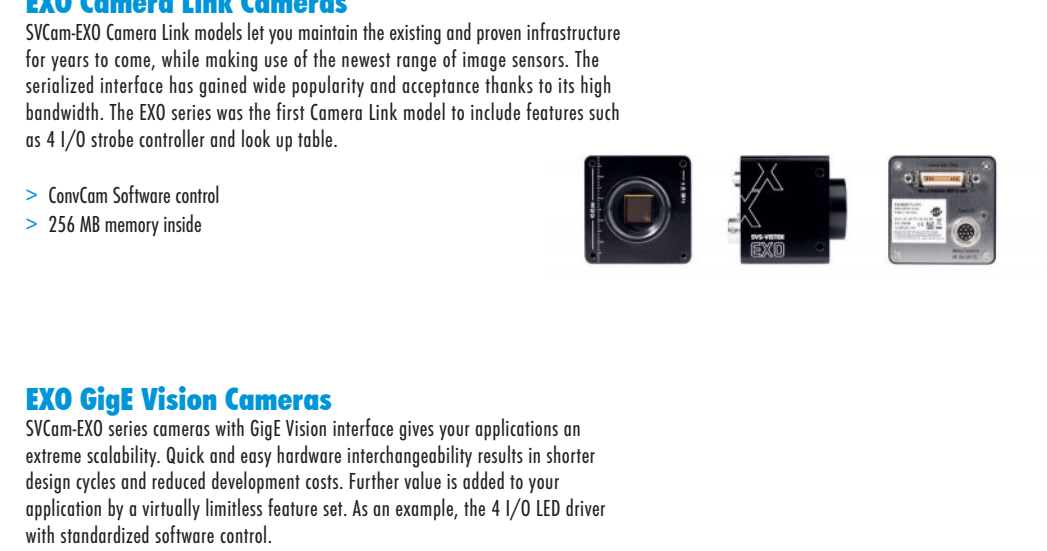
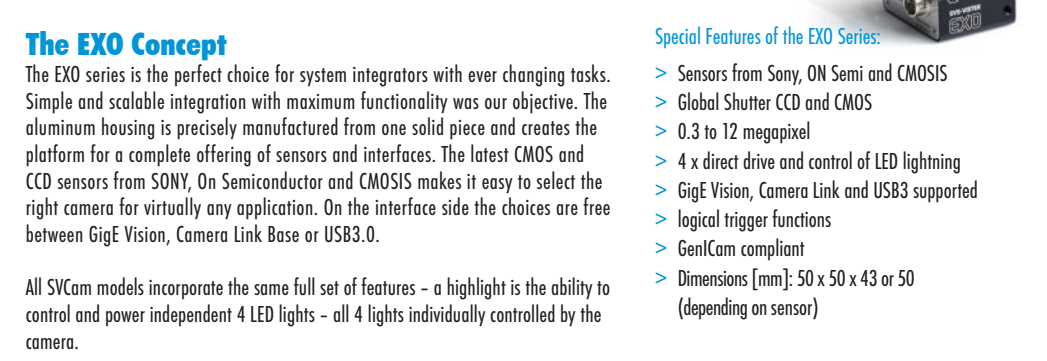


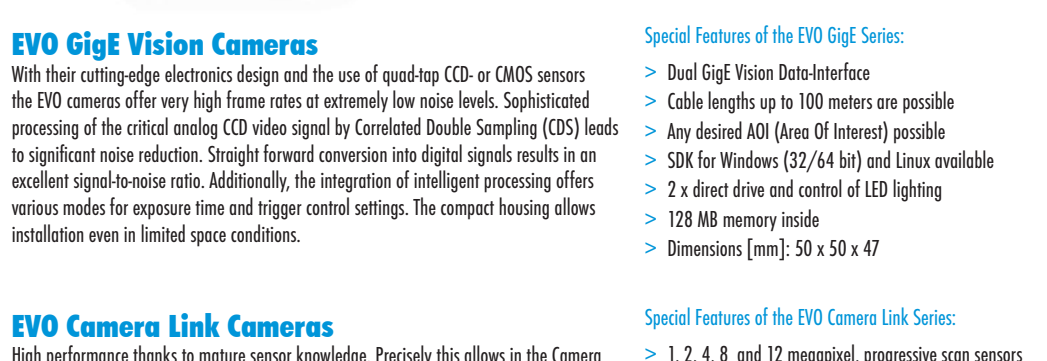
								GigE	BlackLine
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [µm]	Architecture	Mount	max. Frame Rate [fps]	IP 67
eco618	0.3	656 x 492	1/4"	Sony ICX618	5.6	CCD	C/Cs	155	
eco424	0.3	656 x 492	1/3"	Sony ICX424	7.4	CCD	C/Cs	124	
eco414	0.3	656 x 492	1/2"	Sony ICX414	9.9	CCD	C/Cs	125	
eco415	0.4	780 x 580	1/2"	Sony ICX415	8.3	CCD	C/Cs	86	
eco204	0.8	1,024 x 776	1/3"	Sony ICX204	4.65	CCD	C/Cs	47	
eco445	1.3	1,296 x 964	1/3"	Sony ICX445	3.75	CCD	C/Cs	30	
eco267	1.4	1,392 x 1,040	1/2"	Sony ICX267	4.65	CCD	C/Cs	25	
eco285	1.4	1,392 x 1,040	2/3"	Sony ICX285	6.45	CCD	C	34	
eco274	2.1	1,600 x 1,236	1.18"	Sony ICX274	4.4	CCD	C/Cs	26.5	
eco655	5	2,448 x 2,050	2/3"	Sony ICX655	3.45	CCD	C/Cs	10	
eco625	5	2,448 x 2,050	2/3"	Sony ICX625	3.45	CCD	C/Cs	20	
PoE versions on request									



							GigE	BlackLine	
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm]	Architecture	Mount	max. Frame Rate [fps]	IP 67
eco1050	1	1,024 x 1,024	1/2"	ON-Semi KAI-01050	5.5	CCD	C	56.1	
eco2050	2	1,600 x 1,200	2/3"	ON-Semi KAI-02050	5.5	CCD	C	33.2	
eco2150	2	1,920 x 1,080	2/3"	ON-Semi KAI-02150	5.5	CCD	C	31.7	
eco674	2.8	1,920 x 1,460	1/2"	Sony ICX674	4.54	CCD	C	19.9	
eco4050	4	2,336 x 1,752	1"	ON-Semi KAI-04050	5.5	CCD	C	16.8	
eco695	6	2,752 x 2,204	1"	Sony ICX695	4.54	CCD	C	10.1	
eco815	9	3,360 x 2,712	1"	Sony ICX815	3.69	CCD	C	7	
eco834	12	4,224 x 2,838	1"	Sony ICX834	3.1	CCD	C	5.5	



								GiGE	Camera Link	USB3
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [µm]	Architecture	Mount	max. Frame Rate [fps]		
exo174	2.3	1,920 x 1,200	1/1.2"	Sony IMX174	5.86	CMOS	C	46	73	155*
exo249	2.3	1,920 x 1,200	1/1.2"	Sony IMX249	5.86	CMOS	C	41	-	41.2*
exo252*	3.2	2,048 x 1,536	1/1.8"	Sony IMX252	3.45	CMOS	C	-	55*	90*
exo265*	3.2	2,048 x 1,536	1/1.8"	Sony IMX265	3.45	CMOS	C	34*	-	50*
exo250	5	2,448 x 2,048	2/3"	Sony IMX250	3.45	CMOS	C	22	34	72
exo264*	5	2,448 x 2,048	2/3"	Sony IMX264	3.45	CMOS	C	20*	-	35*
exo694	6	2,752 x 2,204	1"	Sony ICX694	4.54	CCD	C	-	25	25
exo814	9	3,360 x 2,712	1"	Sony ICX814	3.69	CCD	C	-	18	18
exo834	12	4,242 x 2,830	1"	Sony ICX834	3.1	CCD	C	-	14.5	14.5
exo4000	4	2,048 x 2,048	1"	CMOSIS CMW4000	5.5	CMOS	C	18.2	40	87
exo5000	5	2,592 x 2,048	1"	ON-Semi Python 5000	4.8	CMOS	C	22	34	65
* preliminary										



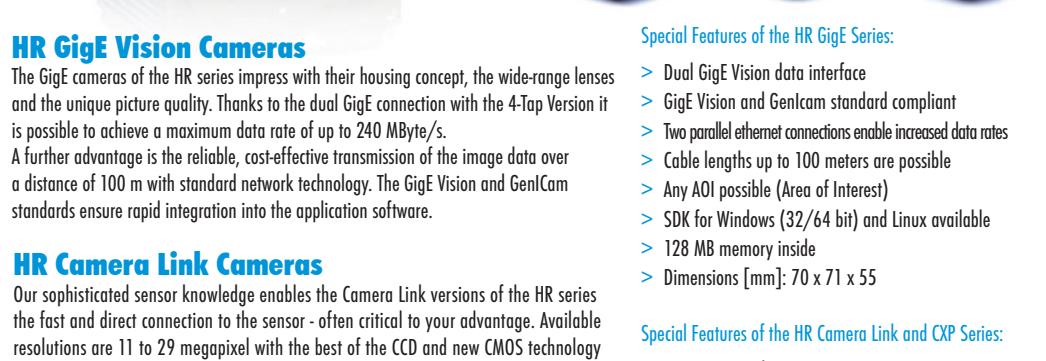
Advanced technology in the smallest package. This was our goal in the development of the SVCam-EVO.								<ul style="list-style-type: none">> Highest frame rate> 128 MB memory inside> Dimensions [mm]: 50 x 50 x 47	
								GigE	Camera Link
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [µm]	Architecture	Mount	max. Frame Rate [fps]	
evo1050	1	1,024 x 1,024	1/2"	ON-Semi KAI-01050	5.5	CCD	C	147	180
evo2050	2	1,600 x 1,200	2/3"	ON-Semi KAI-02050	5.5	CCD	C	81.8	106
evo2150	2	1,920 x 1,080	2/3"	ON-Semi KAI-02150	5.5	CCD	C	78	100
evo4050	4	2,336 x 1,752	1"	ON-Semi KAI-04050	5.5	CCD	C	41.6	52
evo4070	4	2,048 x 2,048	21.43 mm	ON-Semi KAI-04070	7.4	CCD	M42	39.3	44
evo8051	8	3,296 x 2,472	4/3"	ON-Semi KAI-08050	5.5	CCD	M42	21.8	26.8
evo12040	12	4,000 x 3,000	4/3"	ON-Semi KAC-12040	4.7	CMOS	M42	15	-



The SVCam-EVO_Tracer™ combines the outstanding features of the EVO series with the advantages of the Micro-Four-Thirds lens standard. By allowing full user control of zoom, focus and aperture, the lens becomes an integrated part of the camera. The Micro-Four-Thirds lens system was pioneered by increasing demands in digital still photography. This standard, based on a bayonet mount, is widely used for compact cameras and is 100% optimized for digital image capture. There is a wide selection of suitable lenses, and more are on the way, making new and previously unthinkable solutions reality.

- > Micro-Four-Thirds bayonet mount
- > Fast user control of zoom, aperture and focus
- > Lens settings controlled by Ethernet interface
- > Dual GigE Vision data interface
- > Two parallel Ethernet connections enabling increased data rates
- > User selectable AOI (Area Of Interest)
- > SDK for Windows (32/64bit) and Linux available
- > 128 MB memory inside
- > Dimensions [mm]: 58 x 58 x 59

								GigE
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [µm]	Architecture	Mount	max. Frame Rate [fps]
evo1050 TR	1	1,024 x 1,024	1/2"	ON-Semi KAI-01050	5.5	CCD	MFT	147
evo2050 TR	2	1,600 x 1,200	2/3"	ON-Semi KAI-02050	5.5	CCD	MFT	81.8
evo2150 TR	2	1,920 x 1,080	2/3"	ON-Semi KAI-02150	5.5	CCD	MFT	78
evo4050 TR	4	2,336 x 1,752	1"	ON-Semi KAI-04050	5.5	CCD	MFT	41.6
evo4070 TR	4	2,048 x 2,048	4/3"	ON-Semi KAI-04070	7.4	CCD	MFT	39.3
evo8051 TR	8	3,296 x 2,472	4/3"	ON-Semi KAI-08050	5.5	CCD	MFT	21.8



HR CoaXPress Cameras

With CoaXPress 25 GBit/s can be transferred over distances up to 68 m. This makes CXP the alternative to GiGE Vision including frame rates comparable to Camera Link.

Referring to the new generation of high speed CMOS sensors from ON Semi with up to 85 frames per second at 25 megapixel CoaXPress is supported by the SVCam hr25000 and the hr12040. The high dynamic range with a further improved signal to noise ratio makes these sensors two of the fastest high class CMOS sensors available for our customers.

- > Cable length up to 68 meters with CXP
- > 256 MB memory inside (HR25 CXP: 512 MB, CL: 256 MB)
- > Dimensions [mm]: 70 x 71 x 55

model	[MP]	resolution [pixel]	format	sensor	pixel [µm]	architecture	mount	max. frame rate [fps]	GiGE	Camera Link	CoaXPress
hr11002	11	4,008 x 2,672	43.3 mm	ON-Semi Kai-11002	9	CCD	M58/F	6.1	10	-	-
hr16000	16	4,872 x 3,248	43.3 mm	ON-Semi Kai-16000	7.4	CCD	M58/F	4	4.6	-	-
hr16050	16	4,896 x 3,264	32.36 mm	ON-Semi Kai-16050	5.5	CCD	M58/F	10.8	10	-	-
hr16070	16	4,864 x 3,232	43.2 mm	ON-Semi Kai-16070	7.4	CCD	M58/F	11	10.2	-	-
hr25000	25	5,120 x 5,120	32.5 mm	ON-Semi Python 25K	4.5	CMOS	M58/F	-	30	80	-
hr29050	29	6,576 x 4,384	43.47 mm	ON-Semi Kai-29050	5.5	CCD	M58/F	6.2	5.9	-	-



SHR Camera Link Cameras

Enhance existing Camera Link architectures seamlessly, the SHR significantly boost bandwidth capability with the Camera Link 80-bit Full upgrade.

Employing as many as 16 taps, the sensor delivers its 47 megapixel in the finest CCD quality. The unique tap balancing, devised by SVS-VISTEK, is renowned for being among the best - worldwide. It ensures effortless integration of the camera in your application.

SHR CoaXPress Cameras

At Seven full frames of 47 megapixel per second, the SHR with CXP broadens the horizon for quality control. CoaXPress is among the fastest interface standards commonly used in industrial machine vision and therefore ideal for multi-tap sensors. The well-established I/O Concept, found in all SVS-VISTEK camera series, warrants seamless integration of the SHR CXP in existing system architectures.

Special Features of the Camera Link SHR Series:

- > Pixel Clock Setting
- > Power over Camera Link (PoCL)
- > 256 Mb memory inside

Special Features of the CoaXPress SHR Series:

- > Quad CoaXPress (up to 4 x 6.25 Gbit/s)
- > High framerate
- > Cable length up to 200 meters
- > 256 Mb memory inside

							Camera Link	CoaXPress	
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [µm]	Architecture	Mount	max. Frame Rate [fps]	
shr47051*	47	8,556 x 5,280	56.7 mm	ON-Semi KAI-47051	5.5	CCD	M72	3.5	7

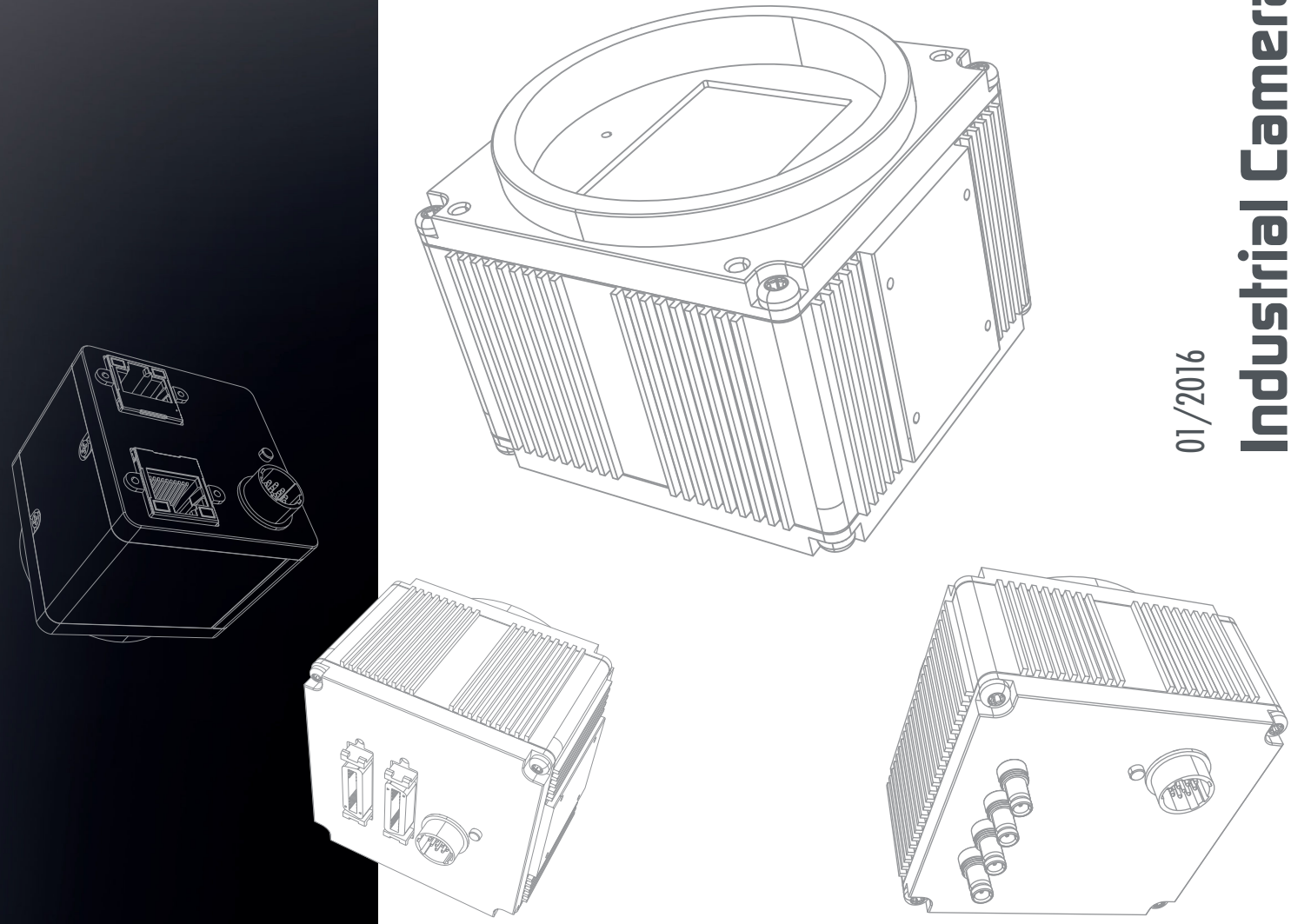
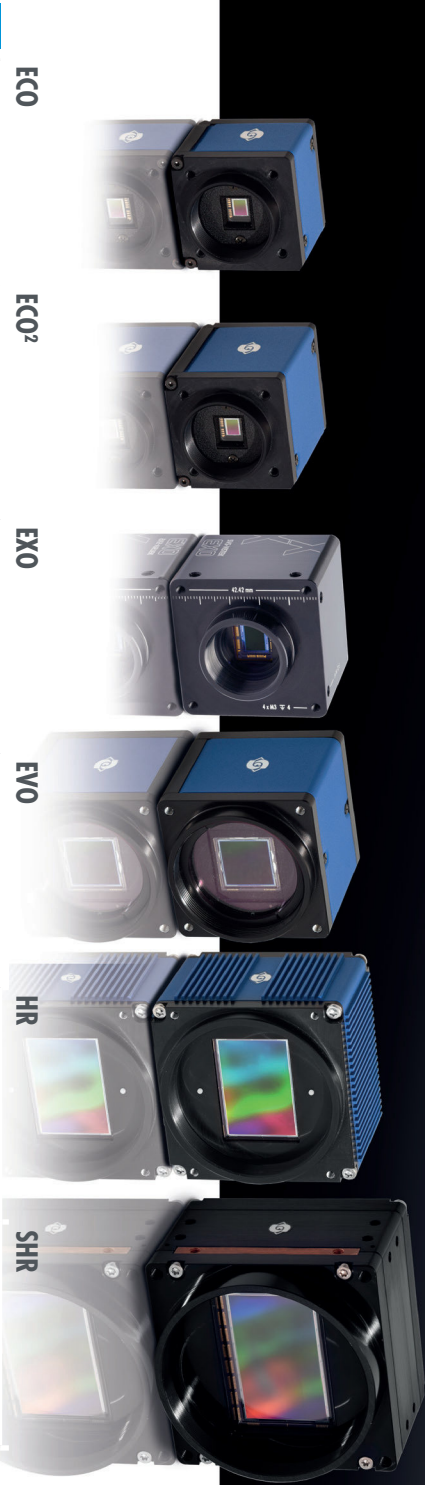
Standards
GenCam compatible
compatible with most 3rd party software
       

I/O Features
up to 4 x open drain outputs
stroke controller – in-camera LED light driver/controller, up to 3 A – easy synchronization
sequencer – up to programmable intervals with individual exposure & light
4 x pulseloop module – generate strobes, exposure timing only/ or additional trigger signals
PWM – high frequency pulse with modulation
signal safe through highlow filter, debouncer and prescaler for trigger input
versatile I/O concept: 24V signal levels – RS232 – optional RS422 differential signal

Camera Firmware Features
area of interest (AOI) – also “region” or “field” of interest
manual or delayed read out control – custom acquisition timing
manual white balance
manual, auto or external exposure time control – custom brightness target
manual or auto gain
adjustable offset
PIV – particle image velocity (CCD sensors only)
look up table (LUT) – custom pixel mapping
internal, software or external trigger response
integrated temperature sensor – SDK accessible

Camera Hardware Features
2 x 2 binning
horizontal and vertical image flip
custom defect pixel correction – custom defect pixel mapping
sliding correction for Gige Vision
dynamic control of focus, zoom and aperture
38 x 38 x 33 mm
38 x 38 x 45 mm
50 x 50 x (43-47) mm
50 x 50 x 46 mm
70 x 71 x 55 mm
80 x 80 x 60 mm
optional “Blockline” – IP Class up to IP67
precision machined housing
manual or auto tap balancing
pixel clock setting for Camera Link





Sensor
0.3 to 5 Mpixel
CCD
Sony 1 tap sensors
progressive scan or global shutter (image on demand)
1 to 12 Mpixel
CCD
Sony and ON Semiconductor
1 and 2 tap sensors
0.3 to 12 Mpixel
CMOS and CCD
CMOS and CCD
Sony, ON Sem and CMOS
1, 2 and 4 tap / 8 elem. sensors
1 to 12 Mpixel
CMOS and CCD
CMOS and CCD
Sony and ON Semiconductor
4 tap / 32 channel sensors
10 to 29 Mpixel
CMOS and CCD
ON Semiconductor
CCD
47 Mpixel
CCD
ON Semiconductor
16 (8 x 2) tap sensor






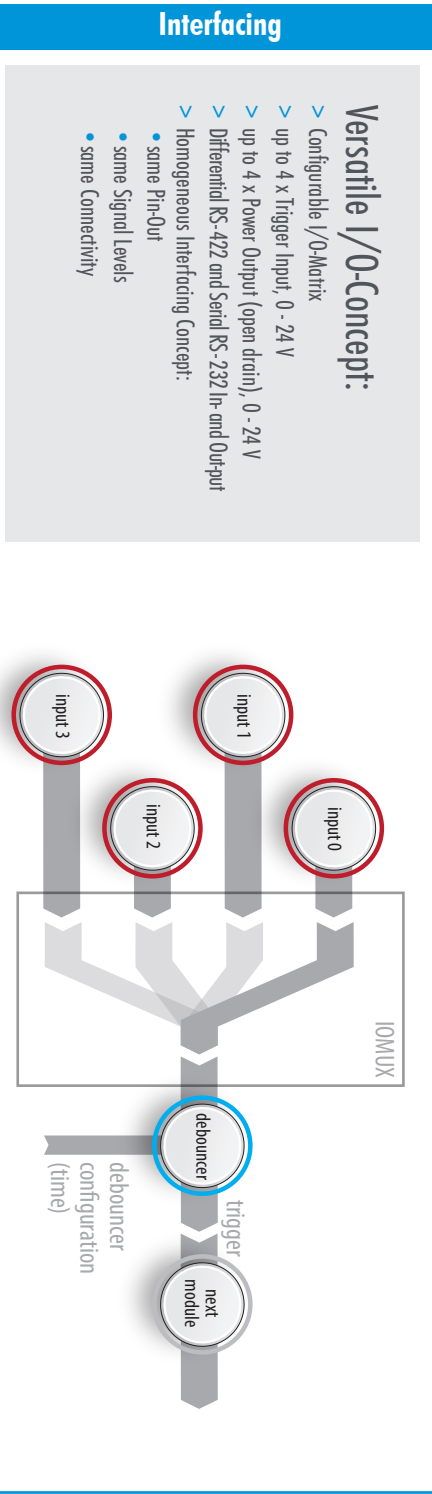
01/2016
Industrial Cameras
SVCam-Product Line made by SVS-VISTEK

Software

Software:
Compatible with Standards like: USB3, CoaPress, Gige Vision, GenCam, Camera Link or PoE and PoE
> Homogeneous for all SVCam Products







Unique Features

- > Configurable Frame Rates for Speed or Dynamic
- > Power Driver for LED-Light
- > Programmable Sequence for Shutter and LED-Light
- > Precise I/O-Control and Timing
- > Some SDK Software
- > Common Feature Set
- > Support for Micro-Four-Thirds Lenses
- > Industrial Connectivity (Hirose and M12 versions)




Engineering

Design and Production

- > Flexible & Scalable
- > Individual Custom OEM Designs

Housing

- > Optical Precision
- > Durable rugged Mechanical Design
- > Advanced Temperature Management
- > Industrial Protection Class up to IP67



SVCam Camera Concept

made by SVS-VISTEK

Feature List



Supported Features and Technologies:

- > Progressive Scan CCD sensors (VGA up to 47 MP)
- > Global Shutter CMOS sensors
- > CCD sensors with advanced Tap Balancing (manual or automatic)
- > Monochrome and Color Versions (Bayer Pattern)
- > White balance for color versions (one push, continuous or manual)
- > Various binning modes
- > User-definable AOI (Area of Interest)
- > Partial Scan Modes
- > Denomination Modes for higher frame rates
- > Selectable Data- and Frame-Rate
- > Flat Field Correction
- > Shading Correction
- > Defect Pixel Correction
- > Adjustable Gain and Offset
- > Auto-Exposure and Auto-Gain
- > Image Flip on the FPGA
- > Look-Up-table for Digital Resolution Mapping
- > Exposure controlled by Trigger, manually or automatically
- > 8 or 12 Bit Video Data Stream (14 Bit on the ADC)
- > Wide Range Power Conditions: 10 - 25 V DC
- > Various Trigger (Int./Ext./Free running) and Exposure Modes
- > Programmable Sequence for Shutter and Light Intensity
- > Pulse-Width Strobe-Control
- > Logical Trigger Functions
- > Schmitt-Trigger (Debounce)
- > Particle Image Velocimetry (PIV-Mode)
- > Built-in LED Controllers
- > Versatile I/O-Concept:
 - Configurable I/O-Matrix
 - up to 4 x Trigger Input
 - up to 4 x Power Output (open drain)
 - Differential RS-422 and serial RS-232 In- and Out-put
- > Gige or Dual Gige Interface
- > Camera Link Interface
- > USB3 Interface
- > CoaPress Interface
- > Gige Vision and GenCam Standard Compliant
- > Support for all Lens Mount Standards
- > Micro-Four-Thirds Bayonet (MFT) Standard supported
- > Prepared for Lens-Fit Unit
- > Operating Temperature Range from -10°C to +45°C (ambient)
- > SDK for Windows (32/64 Bit) and Linux available
- > Intuitive Graphical User Interface
- > Power over Camera Link (PoCL)
- > Power over Ethernet (PoE) on request

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www.svs-vistek.com

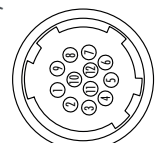
Japan

SVS-VISTEK K.K.

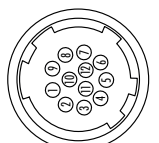
Yokohama
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apac@svs-vistek.com
www.svs-vistek.com

Industrial Connectivity:

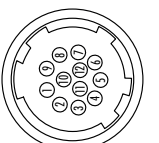
Hirose for ECO, ECO2, EVO Series



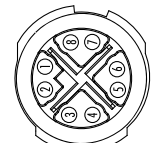
Hirose for EXO, HR (CL full, CXP), SHR Series



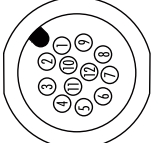
Hirose 410 for option ECO



Industrial Ethernet M12



Industrial M12 - I/O Connector



For more information our sales team will be pleased to assist you with expert advice. Please contact us.

Scale your vision.

Scale your vision.