



ECO and ECO² GigE Vision Cameras

Unsurpassed flexibility with great performance and affordability. This characterizes the ECO and ECO² series best. You will find all popular CCD-Sensors from ON Semi and Sony in the ECO series. These cameras are available in more than 100 different versions with resolutions from VGA up to 12 megapixel. ECO series cameras are designed to achieve high frame rates while maintaining excellent signal-to-noise ratios and at the same time providing a small footprint. Supporting the standards of GigE Vision[™] and GenICam[™], the ECO series opens up new dimensions for integration into your application SW-Environment.

Special Features of the ECO / ECO² Series:

- > Progressive Scan CCD sensors
- > Area of Interest modes (AOI)
- > 8/12 Bit video data stream (14 Bit ADC)
- > 64 MB frame buffer
- > White balance for color versions (one push or manual)
- > Wide range Power conditions: 10 - 25 V DC
- > Sequence-Shutter and enhanced Strobe-Functionality
- > Up to 4 x direct drive and control of LED lighting
- > Dimensions [mm]: ECO: 38 x 38 x 33, ECO²: 38 x 38 x 45

		GigE		BlackLine					
ECO Series	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	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 IC285	6.45	CCD	C	34	☺
eco274	2.1	1,600 x 1,236	1/1.8"	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					
ECO ² Series	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	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	☺



EVO GigE Vision Cameras

With their cutting-edge electronics design and the use of quad-tap CCD- or CMOS sensors the EVO cameras offer very high frame rates at extremely low noise levels. Sophisticated processing of the critical analog CCD video signal by Correlated Double Sampling (CDS) leads to significant noise reduction. Straight forward conversion into digital signals results in an excellent signal-to-noise ratio. Additionally, the integration of intelligent processing offers various modes for exposure time and trigger control settings. The compact housing allows installation even in limited space conditions.

Special Features of the EVO GigE Series:

- > Dual GigE Vision Data-Interface
- > Cable lengths up to 100 meters are possible
- > Any desired AOI (Area Of Interest) possible
- > SDK for Windows (32/64 bit) and Linux available
- > 2 x direct drive and control of LED lighting
- > 128 MB frame buffer
- > Dimensions [mm]: 50 x 50 x 47

EVO Camera Link Cameras

High performance thanks to mature sensor knowledge. Precisely this allows in the Camera Link versions of the EVO, the extra frame rate - often critical to your advantage. There is a suitable model for each task. Identical and easy integration into your system and maximum camera technology in the smallest package. This was our goal in the development of the EVO.

Special Features of the EVO Camera Link Series:

- > 1, 2, 4, 8 and 12 megapixel, progressive scan sensors
- > Camera Link - Medium configuration (2 connectors)
- > C-mount and M42 lens mount options
- > Highest frame rate
- > 128 MB frame buffer
- > Dimensions [mm]: 50 x 50 x 47

		GigE		Camera Link				
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
evo1050	1	1,024 x 1,024	1/2"	ON-Semi KAI-01050	5.5	CCD	C	180
evo2050	2	1,600 x 1,200	2/3"	ON-Semi KAI-02050	5.5	CCD	C	106
evo2150	2	1,920 x 1,080	2/3"	ON-Semi KAI-02150	5.5	CCD	C	100
evo4050	4	2,336 x 1,752	1"	ON-Semi KAI-04050	5.5	CCD	C	52
evo4070	4	2,048 x 2,048	21.43 mm	ON-Semi KAI-04070	7.4	CCD	M42	39.3
evo8051	8	3,296 x 2,472	4/3"	ON-Semi KAI-08051	5.5	CCD	M42	21.8
evo12040	12	4,000 x 3,000	4/3"	ON-Semi KAC-12040	4.7	CMOS	M42	15



The EXO Concept

The EXO series is the perfect choice for system integrators with ever changing tasks. Simple and scalable integration with maximum functionality was our objective. The aluminum unibody housing is precisely machined with excellent thermal and mechanical properties and creates the platform for a complete offering of sensors and interfaces. A wide range of the latest CMOS and CCD sensors from SONY, ON Semiconductor and CMOSIS makes it easy to select the right camera for virtually any application. On the interface side the choices are free between GigE Vision, Camera Link Base or USB3.0.

Special Features of the EXO Series:

- > Sensors from Sony, ON Semi and CMOSIS
- > Global Shutter CCD and CMOS
- > 2.3 to 20 megapixel
- > 4 x direct drive and control of LED lighting
- > GigE Vision, Camera Link and USB3 supported
- > logical trigger functions
- > GenICam compliant
- > Dimensions [mm]: 50 x 50 x 43 or 50 (depending on sensor)

All SVCam models incorporate the same full set of features - a highlight is the ability to control and power independent 4 LED lights - all 4 lights individually controlled by the camera.

EXO Camera Link Cameras

EXO Camera Link models let you maintain the existing and proven infrastructure for years to come, while making use of the newest range of image sensors. The serialized interface has gained wide popularity and acceptance thanks to its high bandwidth. The EXO series was the first Camera Link model to include features such as 4 I/O strobe controller and look up table.

- > ConvCam Software control
- > 256 MB frame buffer

¹⁾ With Tap Configuration 1X3-1Y it is possible to increase the framerate [fps] by 50%. The EXO 174 CL for example can make up to 100 fps.

EXO GigE Vision Cameras

EXO series cameras with GigE Vision interface gives your applications an extreme scalability. Quick and easy hardware interchangeability results in shorter design cycles and reduced development costs. Further value is added to your application by a virtually limitless feature set. As an example, the 4 I/O LED driver with standardized software control.

- > Cost effective
- > Wide range of „off the shelf“ industrial-standard plugs and cables
- > Data transfer rate up to 120 MB/sec
- > Up to 100 m range without additional switch
- > Wide range of applications in image processing
- > Remote service capability
- > 256 MB frame buffer

EXO USB3 Vision Cameras

The EXO is one of the most flexible and scalable cameras for the industrial market segment. The USB3 Vision interface is easy to integrate in your system, with a data rate up to effective 350 MB/sec. The time to market for applications is shortened, reducing costs even further. Power and trigger the camera through a single interface connection and reduce cable complexity. EXO provides Plug-and-play capability for the whole range of 2.3 to 12 MP resolution.

- > Up to 350 MB/sec effective transfer rate
- > Leverages existing infrastructure for cables and connectors
- > Power camera with up to 4.5 W
- > Cost effective/easy implementation and interfacing
- > 256 MB frame buffer

		GigE		Camera Link		USB3		
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
exo174	2.3	1,920 x 1,200	1/1.2"	Sony IMX174	5.86	CMOS	C	49 70 ¹⁾ 160
exo249	2.3	1,920 x 1,200	1/1.2"	Sony IMX249	5.86	CMOS	C	31 - 31
exo252	3.2	2,048 x 1,536	1/1.8"	Sony IMX252	3.45	CMOS	C	- 52 ¹⁾ 115
exo265	3.2	2,048 x 1,536	1/1.8"	Sony IMX265	3.45	CMOS	C	34 - 55
exo4000 ^{**}	4	2,048 x 2,048	1"	CMOSIS CMV4000	5.5	CMOS	C	27 40 74
exo273	4.5	1,440 x 1,080	1/2.9"	Sony IMX273	3.45	CMOS	C	77 - -
exo250	5	2,448 x 2,048	2/3"	Sony IMX250	3.45	CMOS	C	23 32 ¹⁾ 72
exo264	5	2,448 x 2,048	2/3"	Sony IMX264	3.45	CMOS	C	23 - 35
exo694	6	2,752 x 2,200	1"	Sony IC694	4.54	CCD	C	- 25 25
exo814	9	3,360 x 2,712	1"	Sony ICX814	3.69	CCD	C	- 18 18
exo255	9	4,096 x 2,160	1"	Sony IMX255	3.45	CMOS	C	- - 42
exo267	9	4,096 x 2,160	1"	Sony IMX267	3.45	CMOS	C	12 18 ¹⁾ 28
exo253	12	4,096 x 3,000	1.1"	Sony IMX253	3.45	CMOS	C	- - 30
exo304	12	4,096 x 3,000	1.1"	Sony IMX304	3.45	CMOS	C	9 13 ¹⁾ 23
exo183	20	5,496 x 3,672	1"	Sony IMX183	2.4	CMOS	C	5 12 17

¹⁾ up to 50% higher frame rates with certain frame grabber and specific tap configuration

^{*} preliminary ^{**} longer delivery times may occur - ask your local distributor



Tracer GigE Vision Cameras

These cameras combine the outstanding features of the EVO and EXO 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.

Special Features of the Tracer Series:

- > Micro-Four-Thirds bayonet mount
- > Fast user control of zoom, aperture and focus
- > Lens settings controlled by Ethernet interface
- > Data interface: Dual GigE (EVO) / GigE (EXO)
- > User selectable AOI (Area Of Interest)
- > SDK for Windows (32/64bit) and Linux available
- > frame buffer: 64 MB (EXO) / 128 MB (EVO)
- > Dimensions EVO [mm]: 58 x 58 x 59
- > Dimensions EXO [mm]: 58 x 58 x 45

		GigE						
Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
exo304 TR	12	4,096 x 3,000	1.1"	SONY IMX 304	3.45	CMOS	MFT	9
exo183 TR [*]	20	5,496 x 3,672	1"	SONY IMX 183	2.4	CMOS	MFT	5

^{*} preliminary

Model	[MP]	Resolution [Pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
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
evo8051 TR	8	3,296 x 2,472	4/3"	ON-Semi KAI-08051	5.5	CCD	MFT	21.8



HR GigE Vision Cameras

The GigE cameras of the HR series impress with their housing concept, the wide-range lenses and the unique picture quality. Thanks to the dual GigE connection with the 4-Tap Version it is possible to achieve a maximum data rate of up to 240 MByte/s. A further advantage is the reliable, cost-effective transmission of the image data over a distance of 100 m with standard network technology. The GigE Vision and GenICam standards ensure rapid integration into the application software.

HR Camera Link Cameras

Our sophisticated sensor knowledge enables the Camera Link versions of the HR series the fast and direct connection to the sensor - often critical to your advantage. Available resolutions are 11 to 29 megapixel with the best of the CCD and new CMOS technology from ON Semi. 2-tap or 4-tap and newest high speed CMOS sensors are optimally supported with Camera Link base, medium or full standard.

HR CoaXPress Cameras

With CoaXPress 25 GB/s can be transferred. 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 hr25000. 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 industrial customers.

Special Features of the HR GigE Series:

- > Dual GigE Vision data interface
- > GigE Vision and GenICam standard compliant
- > Two parallel ethernet connections enable increased data rates
- > Cable lengths up to 100 meters are possible
- > AOI (Area of Interest)
- > SDK for Windows (32/64 bit) and Linux available
- > 128 MB frame buffer
- > Dimensions [mm]: 70 x 71 x 55

Special Features of the HR Camera Link and CXP Series:

- > GenICam compliant
- > Particle Image Velocimetry (PIV-Mode)
- > (optional) Power over Camera Link (PoCL)
- > 256 MB frame buffer (HR25 CXP: 512 MB, CL: 256 MB)
- > Dimensions [mm]: 70 x 71 x 55

		GigE		Camera Link		CoaXPress		
Model	[MP]	Resolution [pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
hr11002	11	4,008 x 2,672	43.3 mm	ON-Semi KAI-11002	9	CCD	M58/F	6.1 - -
hr16000	16	4,872 x 3,248	43.3 mm	ON-Semi KAI-16000	7.4	CCD	M58/F	4.4 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	- 31 80
hr29050	29	6,576 x 4,384	43.47 mm	ON-Semi KAI-29050	5.5	CCD	M58/F	6.2 5.9 -



HR 120 Camera Link or CXP Camera

Machine vision inspection very often focuses on details. Resolution is the magic word here. With a resolution of 120 megapixel, the hr120 reveals even the smallest detail. Designed for demanding high-end imaging applications, the hr120 features an unprecedented combination of resolution and outstanding image quality that redefines "high resolution" in machine vision.

The CANON APS-H rolling shutter sensor with square-shaped 2.2μm pixels delivers up to 6.7 (Camera Link) or 9.4 (CXP) images per second at a maximum resolution. The relatively large pixels for this resolution provide an impressively noise-free image. The M58 mount ensures a wide selection of suitable high-quality lenses for just about every conceivable application.

The camera comes with the usual features such as lookup tables, areas of interest, offset, flipping, binning etc. These are supported by defect pixel correction and shading correction for lenses. As a high-end machine vision camera, it exhibits an outstanding thermal design with passive cooling.

With its resolution of 13,272 x 9,176 pixel, it is frequently no longer necessary to stitch images from multiple cameras. The hr120 is an extremely high-resolution camera in a compact body packed full of professional features.

Special Features of the HR120 Series:

- > Resolution 13,272 x 9,176 pixel (6.7 fps / 9.4 fps)
- > Sensor: Canon CMOS sensor, 2.2μm pixel size
- > Trigger and Input: electrical & optical trigger, RS232
- > Output: 4 (integrated 4-channel light controller)
- > Lens mount: M58.0.75 / Canon / Moritex
- > Interface: Camera Link Full / Deco or CoaXPress

		Camera Link		CoaXPress				
Model	[MP]	Resolution [pixel]	Format	Sensor	Pixel [μm^2]	Architecture	Mount	max. Frame Rate [fps]
hr120	120	13,272 x 9,176	29.2 x 20.19	Canon	2.2 x 2.2	CMOS	M58/F	

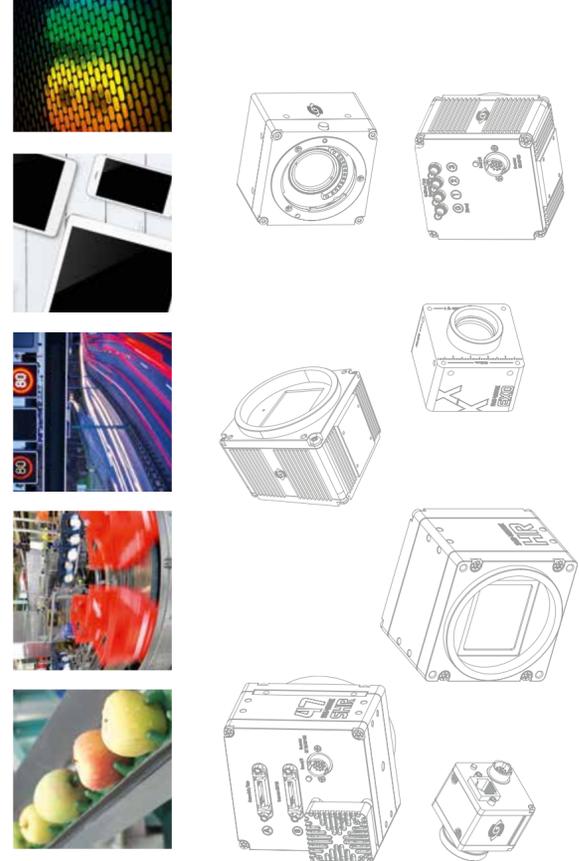
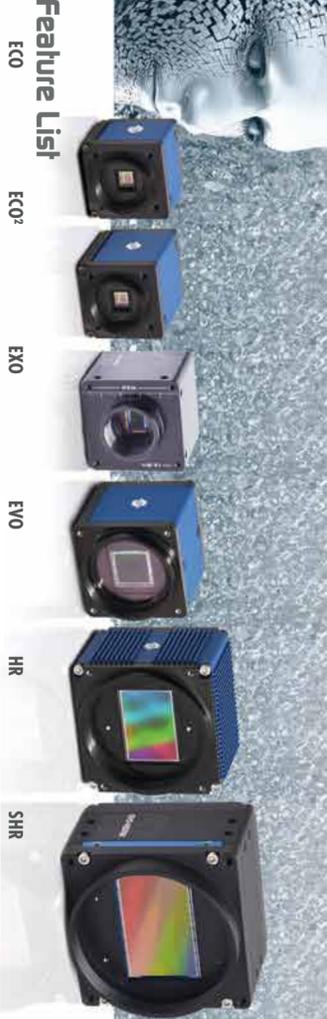
Standards
GenICam compatible
compatible with most 3rd party software

I/O Features	
up to 4 x open drain outputs	4 x open drain outputs
stripe controller – iris-camera LED light drive/controller; up to 3 A – easy synchronization sequencer – up to 16 programmable intervals with individual exposure and strobe out programmable logic I/O functionality with timers	up to 4 x open drain outputs
PWM – high frequency pulse width modulation signal safe through high-low filter, debouncer and prescaler for trigger input	4 x open drain outputs
versatile I/O content: 24V signal levels – RS232 / RS422 differential signal	

Camera Firmware Features		
horizontal and vertical image flip	2 x 2 binning (4 x 4 for CI)	2 x 2 binning
custom defect pixel correction – custom defect pixel mapping	stitching correction for GigE Vision	
ROI / ROI (area of interest / region of or of interest)		
read out control – custom acquisition timing (manual or delayed)		
white balance (manual / auto)		
exposure time control (manual, auto or external)		
gain (manual or auto)		
adjustable offset		
PV – particle image velocimetry (PIV) sensors only)		
UI (look up table) – custom pixel mapping		
trigger mode (internal, software or external)		
integrated temperature sensor – SW accessible		

Camera Hardware Features		
2 x 2 binning	2 x 2 binning (4 x 4 for CI)	2 x 2 binning
horizontal and vertical image flip	stitching correction for GigE Vision	
custom defect pixel correction – custom defect pixel mapping		
ROI / ROI (area of interest / region of or of interest)		
read out control – custom acquisition timing (manual or delayed)		
white balance (manual / auto)		
exposure time control (manual, auto or external)		
gain (manual or auto)		
adjustable offset		
PV – particle image velocimetry (PIV) sensors only)		
UI (look up table) – custom pixel mapping		
trigger mode (internal, software or external)		
integrated temperature sensor – SW accessible		

Sensor					
0.3 to 5 Mpixel	1 to 12 Mpixel	2.3 to 20 Mpixel	1 to 12 Mpixel	10 to 29 Mpixel	47 Mpixel
CCD	CCD	CMOS and CCD	CMOS and CCD	CMOS and CCD	CCD
Sony 1 tap sensors	Sony and ON Semiconductor	Sony, ON Semi and CMOS	Sony and ON Semiconductor	ON Semiconductor	ON Semiconductor
progressive scan or global shutter (image on demand)	1 and 2 tap sensors	1, 2 and 4 tap / 8/dn. sensors	1, 2 and 4 tap / 12/dn. sensors	4 tap / 32 channel sensors	16 (8 x 2) tap sensor
mono and color versions					



February 2018 Industrial Cameras

SYCam-Product Line made by SYS-VISTEK

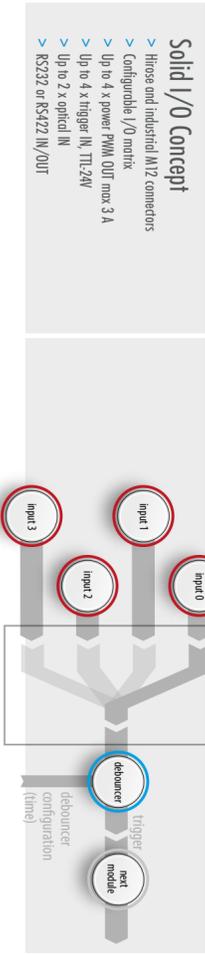
USA

Scale your vision.

Software

- > Works with any GenICam camera
- > Windows, Linux and macOS supported
- > Compatible with standard like US3 Vision, CoaPress, GigE Vision, GenICam, Camera Link
- > GenICam transport layer for out-of-the-box compatibility to nearly all Machine Vision software like CVL, HALCON, MERLIC, openCV, nVision, eyeVision, COGNEX VisionPro, Matlab, MIL, LabView, VisionBuilder, Streamix, eBUS SDK and many others

USA



Solid I/O Concept

- > Hirose and industrial M12 connectors
- > Configurable I/O matrix
- > Up to 4 x power PWM OUT max. 3 A
- > Up to 4 x trigger IN, TTL/24V
- > Up to 2 x optical IN
- > RS232 or RS422 IN/OUT

LED, SEQ, ST, BST, PLC, A MITERED MICRO-FOURTHIRDS BAYONET, SOFT TRIGGER, RESISTANCE TECHNOLOGY, DEBOUNCE, PROGRAMMABLE LOGIC, DEBOUNCE, TRIGGER, DEBOUNCE, RESET MODULE, debouncer configuration (time)

Unique Features

- > PWM power drives for LED lights (LED)
- > Programmable sequencer for shutter and LEDS (SEQ)
- > Programmable I/O logic (PLC)
- > Burst mode (BST)
- > Safe trigger (ST)
- > Dynamic lens control (MLT)

Design

- > Flexible and scalable with identical connector pinout in all camera series
- > Individual custom OEM designs for system integrators
- > Industrial long-term support of cameras
- > Wide power supply range 10 - 25 V



"High-quality cameras, components and expertise from SYS-VISTEK from reliable elements of your own application. We are committed to ensuring this and will be pleased to provide experts to support you during the entire design-in process."

Camera Concept



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) programmable logic I/O functionality with timers
- > User-definable ROI (Area of Interest)
- > Derivation 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 (14 Bit on the ADC)
- > Wide Range Power Conditions: 10 - 25 V DC
- > Various Trigger (in./ext./free running) and Exposure Modes
- > Programmable Sequencer for Shutter and Strobe
- > Pulse-Width Strobe-Control
- > Logical Trigger Functions
- > Schmitt-Trigger (Debouncer)
- > 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 RS232 In- and Out-pur
- > GigE or Dual GigE Interface
- > Camera Link Interface
- > US3S Interface
- > CoaPress Interface
- > GigE-Vision and GenICam Standard Compliant
- > Support for all Lens Mount Standards
- > Micro-Four-Thirds Bayonet (MFT) Standard supported
- > Prepared for Lens-Tilt Unit
- > Operating temperature Range from -10°C to +45°C (ambient)
- > SDK for Windows (32/64 bit) and Linux available
- > Inbuilt Graphical User Interface
- > Power over Camera Link (PoCL)
- > Power over Ethernet (PoE) on request
- > Power over CoaPress (PoCP)

Our sales team will be pleased to assist you with expert advice. Please contact us.

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Pin	Signal	Color Code	Signal	Color Code
1	V IN - (GND)	white	V IN - (0 - 25V)	brown
2	V IN + (0 - 25V)	blue	V IN- (GND)	white
3	RxD (RS232) not available for PE versions	white	RxD (RS232) not available for PE versions	white
4	TxD (RS232) not available for PE versions	green	TxD (RS232) not available for PE versions	green
5	IN 1 (0 - 24 V)	pink	IN 1 (0 - 24 V)	pink
6	IN 2 (0 - 24 V)	yellow	IN 2 (0 - 24 V)	yellow
7	OUT 1 (open drain)	black	OUT 1 (open drain max. 24 V, 0.3 A)	black
8	OUT 2 (open drain)	grey	OUT 2 (open drain max. 24 V, 0.3 A)	grey
9	IN 3 + (RS422)	red	IN 3 + (RS422)	red
10	IN 3 - (RS422)	violet	IN 3 - (RS422)	violet
11	OUT 3 + (RS422)	grey / pink	OUT 3 + (RS422)	grey / pink
12	OUT 3 - (RS422)	red / blue	OUT 3 - (RS422)	red / blue
	Shielding		Shielding	



M12 - I/O Connector

Pin	Color Code	Signal
1	brown	V IN + (0 - 25V)
2	blue	V IN- (GND)
3	white	RxD (RS232) not available for PE versions
4	green	TxD (RS232) not available for PE versions
5	pink	IN 1 (0 - 24 V)
6	yellow	IN 2 (0 - 24 V)
7	black	OUT 1 (open drain max. 24 V, 0.3 A)
8	grey	OUT 2 (open drain max. 24 V, 0.3 A)
9	red	IN 3 + (RS422)
10	violet	IN 3 - (RS422)
11	grey / pink	OUT 3 + (RS422)
12	red / blue	OUT 3 - (RS422)
		Shielding



RJ45 to M12 Connector

Color Code	Pin RJ45	Pin M12
white / orange	1	1
orange	2	2
white / green	3	3
blue	4	4
white / blue	5	7
green	6	4
white / brown	7	5
brown	8	6

Scale your vision.