



SWIR Cameras

Short Wave Infrared (SWIR) sensors from Sony with the latest technology. The sensors impress with an extremely wide spectral bandwidth that extends to the visible spectrum. Typical applications: Visualization of liquids, foreign materials, transmission inspection of semiconductors or temperature. Reliable inspection solutions in the glass, wafer and food sectors.

Special Features of our SWIR Cameras:

- Small pixels, high sensitivity
- Sensitive for wavelengths from 400-1,700 nm
- High homogeneity with high dynamic range
- For fxo992 and fxo993 TEC and TECless option

									10GigE	GigE	CXP-12	USB3
Model	[MP]	Resolution	Format	Sensor	Pixel [µm]	Architecture	Mount	fps				
exo991	0.3	640 x 512	1/4"	Sony IMX991	5	CMOS	C	-	260	-	-	-
exo990	1.3	1,280 x 1,024	1/2"	Sony IMX990	5	CMOS	C	-	94.4	-	-	125.4
fxo990	1.3	1,280 x 1,024	1/2"	Sony IMX990	5	CMOS	C	-	-	-	134	-
fxo993	3.1	2,048 x1,536	8.9 mm	Sony IMX993	3.45	CMOS	C	173.4* NEW	-	-	137.4* NEW	-
fxo992	5.2	2,560 x 2,048	11.4 mm	Sony IMX992	3.45	CMOS	C	132* NEW	-	-	132* NEW	-

*also available with built-in thermoelectric cooler (TEC)



Ultraviolet Cameras

Our ultraviolet cameras are based on the proven design of the FXO series. Two fast CoaXPress12 Connections, or a 10GigE interface provide the camera with outstanding properties in terms of trigger latency and high data rate. The Sony Pregius UV image sensors are characterized by high resolution and sensitivity.

Special Features of our UV Cameras:

- LUT, Binning, ROI
- Electrical and optical inputs
- Industrial TTL-24V I/O interface with SafeTrigger, logic functions, programmable sequencers and timers, RS232 interface, integrated 4-channel strobe controller

									10GigE	CXP-12
Model	[MP]	Resolution	Format	Sensor	Pixel [µm]	Architecture	Mount	fps		
fxo487	8.1	2,840 x 2,840	2/3"	Sony IMX487	2.74	CMOS	C	87	87	195*

* CoaXPress12 with 2 Connections



Polarized Cameras

The Sony Polarsens sensors allow a reliable and very fast inspection of non-metallic surfaces and structures that are otherwise difficult to inspect. We provide a tool kit for easy start-up and implementation of our camera. Typical applications: The inspection of surfaces, reflective materials and tension analysis.

Special Features of our Polarized Cameras:

- Simultaneous measurement of
- degree of polarization
 - direction of polarization
 - intensity

									GigE	USB3
Model	[MP]	Resolution	Format	Sensor	Pixel [µm]	Architecture	Mount	fps		
exo264	5	2,448 x 2,048	2/3"	Sony IMX264MZR	3.45	CMOS pol.	C	24.5	35	
exo250	5	2,448 x 2,048	2/3"	Sony IMX250MZR	3.45	CMOS pol.	C	24.5	75	
exo253	12.3	4,096 x 3,000	1.1"	Sony IMX253MZR	3.45	CMOS pol.	C	10	30	



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We offer a wide range of industrial vision cameras and components.



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A TKH TECHNOLOGY COMPANY

Scale your vision.



2024 | 01

Inspect the Invisible with UV, SWIR and Polarized cameras

made by SVS-Vistek



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USB 3.1 GIGE VISION GIGE VISION CXP-12 CoaXPress

Scale your vision.

A TKH TECHNOLOGY COMPANY

SWIR cameras

See beyond the surface with SWIR inspection.

e.g. bottle inspection

- ✓ Lid
- ✓ Label
- ✓ Level



Ultraviolet cameras

Inspect with the most advanced UV technology.

e.g. wafer inspection



Polarized cameras

Reveal what's hidden with POL inspection.

e.g. scratch detection



up to
5.2
MP

173.4 fps **10 GiGE**
260 fps **GiGE**
134 fps **CXP-12**

GiGE VISION
USB VISION

10 GiGE VISION
CXP-12 1Connection

50 mm
CAMERA HOUSING
50 mm

GLOBAL SHUTTER

LED
4 INTEGRATED LED-CONTROLLER

SEQ
INTEGRATED SEQUENCER

STT
SAFE TRIGGER TECHNOLOGY

PLC
PROGRAMMABLE LOGIC CONTROL

BST
BURST MODE TECHNOLOGY



Sensors with high SWIR wavelength sensitivity in EX0 & FX0 cameras.

SVS-Vistek has launched SWIR cameras in the EX0 & FX0 series, which come with the Sony SenSWIR sensor, optional for FX0 with or without thermoelectric cooling (TEC). These cameras have the exceptional capability to capture a vast spectrum of wavelength ranging from 400 to 1,700 nm. This characteristic offers valuable benefits for a multitude of applications.

They also come with state-of-the-art features like increased dynamic range, best image homogeneity with non-uniformity correction, industrial design with GenTL drivers, an integrated power multi-channel strobe controller and economical GigE as well as CoaXPress-12 interface is allowing up to 260 fps.

SWIR (Short Wave Infrared) inspection systems have become established solutions in various applications such as wafer inspection, teperature observations and locating contamination in food products. SWIR is also successful in identifying materials, chemicals, and detecting moisture or liquids.

- > Sony SenSWIR sensor with 400-1,700 nm spectral sensitivity and high quantum efficiency
- > Advanced Two-Point NUC (Non Uniformity Correction)
- > CoaXPress-12 delivers lowest latency and highest speed
- > 10GiGE for economical bandwidth and ease of integration
- > LUT, Binning, ROI, Burst Mode
- > Up to 65°C (140°F) operating temperature
- > Industrial TTL- 24V I/O interface with SafeTrigger, logic functions, programmable sequencers and timers, RS232 interface, electrical and optical inputs, GenICam and GenTL



fxo487
8.1
MP

87 fps **10 GiGE**
195 fps **CXP-12**

10 GiGE VISION
CXP-12 1Connection

CXP-12 2Connections

50 mm
CAMERA HOUSING
50 mm

GLOBAL SHUTTER

LED
4 INTEGRATED LED-CONTROLLER

SEQ
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UV sensor, 2 CXP-12 Connections and the world's most compact housing - FX0.

The fxo487 UV camera is an ideal solution for demanding industrial inspection tasks in the ultraviolet wavelength range due to its high level of UV sensitivity. With an 8.1 megapixel resolution and a maximum frame rate of up to 195 frames per second, it is capable of capturing detailed and fast moving objects in the the UV wavelength range of 200 to 400nm.

The FX0 UV cameras offers High-Speed data transfer with 2 CoaXpress-12 Connections. In addition the compact design makes it the smallest camera available in its category worldwide.

SVS-Vistek also provides lenses that are compatible with the UV camera, covering a wide range of wavelength from visible to UV light. This camera enables various applications in industries such as battery, semiconductor, glass, recycling, gemstone, and automotive, making it a versatile and robust solution for industrial image processing.

- > Sensitivity in the wavelength range of 200-780 nm
- > GenICam 3.0 Software interface, GenTL
- > Interfaces: 10GiGE, 1 CXP-12 Connection, or 2 CXP-12 Connections
- > LUT, Binning, ROI
- > Electrical and optical inputs
- > Up to 65°C operating temperature
- > Industrial TTL-24V I/O interface with SafeTrigger, logic functions, programmable sequencers and timers, RS232 interface, integrated 4-channel strobe controller



up to
12.3
MP

75 fps **USB3**
24.5 fps **GiGE**

GiGE VISION
USB VISION

50 mm
CAMERA HOUSING
50 mm

GLOBAL SHUTTER

LED
4 INTEGRATED LED-CONTROLLER

SEQ
INTEGRATED SEQUENCER

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Polarized EX0 cameras with integrated Global Shutter.

The use of Polarized cameras brings several advantages in various applications. One of the main benefits is the ability to reduce glare and reflections from objects, which improves image quality and visibility. This is especially useful in outdoor or high-contrast environments where direct sunlight or other light sources can create unwanted reflections.

Polarized cameras also enable the detection and analysis of subtle changes in polarization properties, which can provide valuable information in scientific research, quality control processes, and industrial inspections. For example, in material inspection, Polarized cameras can reveal hidden defects, such as stress patterns or material composition variations, that are not visible to regular cameras.

Despite its specialized sensors, our Polarized EX0 cameras can be used with standard industrial lenses. The integrated 4-channel Strobe Controller supports complex lighting situations.

- > GenICam 3.0, GigE Vision and USB3 interface
- > LUT, ROI, Burst Mode
- > Electrical and optical inputs
- > Up to 60°C operating temperature
- > Integrated 4-channel strobe controller
- > Industrial TTL-24V I/O interface with SafeTrigger, logic functions, programmable sequencers and timers, RS232 interface