



SVS-VISTEK

a TKH Vision brand



2025 | 10

Industrial Vision Cameras

made by SVS-Vistek

Compact, High-Resolution, Invisible
Wavelength & High-Speed Cameras

MIKROTRON
a TKH Vision brand

USB
VISION

GIG-E
VISION

10 GIG-E
VISION

25 GIG-E
VISION
+RDMA

100 GIG-E
VISION
+RDMA

Camera
Link

CXP

CXP-12

GEN-*ci*CAM

WY
MICRO
FibreOptics

SWIR
SPECTRAL
WIDENING
IMAGING

UV
ULTRAVIOLET
IMAGING

POL
POLARIZATION
IMAGING

Scale your vision.



A TKH TECHNOLOGY COMPANY

Feature List



EXO







FXO



HR



SHR

| | Compact | | High Resolution | |
|---|---|---|---|---|
| Sensor | 1.6 to 31.4 Mpixel, CMOS | 5 to 24.6 Mpixel, CMOS | 25 to 65 Mpixel, CMOS | 47 to 245 Mpixel, CMOS |
| | Sony and CMOSIS | Sony | Sony / Gpixel / ON Semiconductor | Sony |
| | mono and color versions, Polarized, SWIR | mono and color versions, UV, SWIR | mono and color versions | |
| | global shutter / rolling shutter | global shutter | global shutter / rolling shutter | |
| Camera Hardware Features | GigE Vision, Camera Link Base or USB3 Vision | 10GigE Vision, 25GigE Vision +RDMA, 100GigE +RDMA, 1× CoaXPress-12, 2× CoaXPress-12 | 10GigE Vision, Camera Link, 4× CoaXPress-6, 4× CoaXPress-12 | 10GigE or 4× CoaXPress-6, 4× CoaXPress-12 |
| | 256 MB internal memory | 1024 MB internal memory | 512 MB internal memory | 512 MB internal memory |
| | 8 or 12 bit pixel format | 8, 10 or 12 bit pixel format | 8, 10, 12 or 16 bit pixel format | |
| | PoE, PoCL, PoUSB | PoE+, PoCXP | PoE+ (optional), PoCL, PoCXP | PoE+ (optional), PoCXP |
| | C mount, M42, MFT, EF mount | C mount, EF mount | M58(FFD 11.48), EF mount, RF mount (on demand) | M72 Mount (FFD 19.55) |
| | Lens Mount Adapters available | | | |
| | | TEC Cooled Option | TEC Cooled Version | TEC Cooled Version |
| | 50 × 50 × X mm (M42: 58 × 58 × X) | 50 × 50 × X mm (dep. on interface) | 70 × 70 × X mm (dep. on sensor) | 80 × 80 × X mm (dep. on sensor) |
| | precision machined housing | | | |
| | **manual or auto tap balancing | | | |
| Camera Firmware Features | 2 × 2 binning | | | |
| | horizontal and vertical image flip | | | |
| | custom defect pixel corr. – defect pixel map * | | | |
| | shading correction | | | |
| | AOI / ROI (area of interest / region of interest) | | | |
| | read out control (GigE only) | | | |
| | white balance (manual / auto) | | | |
| | exposure time control (manual, auto or external) | | | |
| | gain (manual or auto) | | | |
| | adjustable offset | | | |
| | LUT (lookup table) | | | |
| | trigger mode (internal, software or external) | | | |
| | integrated temperature sensor – SDK accessible | | | |
| | Standards | GenICam compatible | | |
| compatible with most 3 rd party software | | | | |
| I/O Features |     | |      | |
| | | |     | |
| | | | | |
| | 4 × open drain outputs | | | |
| | strobe controller – in-camera LED light driver/controller, up to 3 A (depending on series) – easy synchronization | | | |
| | sequencer – up to 32 programmable intervals with individual exposure and strobe out | | | |
| | programmable logic I/O functionality with timers | | | |
| | PWM – high frequency pulse width modulation | | | |



EoSens

MotionBLITZ® (Recording)

High Speed

| | |
|--|---|
| 1.1 to 21 Mpixel | 1.1 to 3 Mpixel |
| Luxima, OnSemi, Alexima, Gpixel | Luxima, OnSemi, Micron |
| | SMR and Quad1.1S: mono and color Mini and Cube: mono |
| global shutter | |
| Camera Link, 4 × CoaXPress-6, 4 × CoaXPress-12, 10GigE | GigE, 10GigE |
| not available | 2,048 MB to 2.6 TB internal internal memory |
| 8 or 10 bit pixel format | 8 bit pixel format |
| PoCXP | |
| C mount, F mount, M42, M58, flat front | C mount, FG Mount |
| Lens Mount Adapters | Lens Mount Adapters |
| CL: 60 × 60 × X; CXP6 and CXP12: 80 × 80 × X (dep. on sensor) | Quad: 65 × 65 × X (dep. on sensor); Mini: 63 × 63 × X (dep. on mount); Cube: 69 × 93 × X (dep. on mount); SMR: 95 × 95 × X (dep. on mount) |

| | |
|-------------------------------------|---|
| EoSens 9.5, EoSens 10 and EoSens 21 | |
| | |
| | |
| | |
| | only available for Cube4, mini1 and mini2 |
| | |
| Digital and analog | |

10 GigE Vision Camera Link CXP CXP-12

GigE Vision 10 GigE Vision

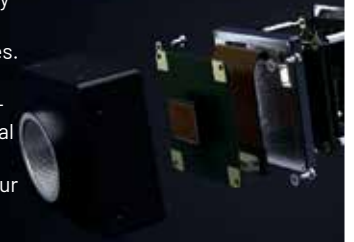
Camera Concept

Modular Building Blocks



The modular architecture of SVS-Vistek cameras enables a simplified camera design with proven modular functionality. Individual components can be combined to create an individual solution. This allows us to quickly integrate new cameras variants, sensors and special requests into our camera series.

Many industrial applications require cameras with special features. Be it just a special paint job, a specific lens mount, a special interface or a special firmware function. Our OEM customers benefit from this modularity through short development times and attractive pricing.



Design

- > OEM Design for system integration
- > 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



Engineering and Production

- > Excellent optical precision
- > Precise and rugged long life mechanical design
- > Advanced temperature management
- > Industrial protection class up to IP67



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 (STT)
- > Precision time protocol (PTP)
- > Particle image velocimetry (PIV)
- > Dynamic lens control (MFT)
- > Thermo Electric Cooled (TEC) Option



Powerful I/O Concept

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



Software

- > Works with any GenICam camera
- > Windows, Linux and macOS supported (x64, x86, ARM)
- > Compliant with standards such as USB3 Vision, CoaXPress, GigE Vision, GenICam, Camera Link
- > GenICam transport Layer for out-of-the-box compatibility to nearly all Machine Vision software



Compact cameras

e.g. QR-Code reading

EXO series

LED
INTEGRATED
LED-CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

BST
BURST MODE
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

CAMERA
HOUSING
x 50 mm

USB3
VISION

GIG-E
VISION

CAMERA
LINK

EXO - The Integrator's Camera

The EXO series is based on the most powerful CMOS sensors from Sony and CMOSIS. In a precision-milled unibody housing, it offers an extremely clever, flexible and economical camera concept with excellent image quality, outstanding temperature behavior, multiple inputs, PLC functionality and a multi-channel Strobe Controller.

The tight thermal connection of the power-saving, optimized electronics and sensor to the housing enables operating temperatures of up to 60°C for most EXO models. The cameras are available with GigE Vision, Camera Link and USB3 Vision interfaces and support the latest standards such as GenICam 3.0 and USB 3.1. A large number of evenly distributed mounting holes allow the EXO camera to be mounted precisely and securely, providing reliable support even for heavy lenses.

Special Features of the EXO series:

- > Resolution 1.6 to 31.4 megapixel (up to 4/3")
- > Latest CMOS sensors from Sony and CMOSIS
- > Monochrome and color versions (Bayer pattern)
- > Various trigger and exposure modes
- > Logic trigger functions (PLC)
- > Adjustable gain, auto gain and auto- exposure
- > Binning mode
- > Area of interest (AOI / ROI)
- > White balance for color versions
- > C mount, M42 or Micro Four Thirds lens adapter
- > 8/12 Bit video data stream
- > 256 MB burst mode memory inside (GigE)
- > 4 × Power Output (4-channel strobe controller)
- > electric and optical input
- > Programmable sequencer für shutter and LED lights
- > SDK for Windows, Linux and macOS available
- > GenTL driver, GenICam 3.0 standard
- > Trigger voltage TTL-24V

| | | | | | | | | | | GigE | CL | USB3 |
|---------|------|--------------------|----------|----------------|------------|---------|-------|-----------------------|-----|------|------|------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | | |
| exo273 | 1.6 | 1,440 × 1,080 | 1/2.9" | Sony IMX273 | 3.45 | GS | C | 79 | – | – | | |
| exo174 | 2.3 | 1,920 × 1,200 | 1/1.2" | Sony IMX174 | 5.86 | GS | C | 53.6 | 105 | 160 | | |
| exo249 | 2.3 | 1,920 × 1,200 | 1/1.2" | Sony IMX249 | 5.86 | GS | C | 41 | – | 41 | | |
| exo252 | 3.1 | 2,048 × 1,536 | 1/1.8" | Sony IMX252 | 3.45 | GS | C | – | 78 | 115 | | |
| exo265 | 3.1 | 2,048 × 1,536 | 1/1.8" | Sony IMX265 | 3.45 | GS | C | 39 | – | 55 | | |
| exo4000 | 4 | 2,048 × 2,048 | 1" | CMOSIS CMV4000 | 5.5 | GS | C | 29.5 | – | 74 | | |
| exo250 | 5 | 2,448 × 2,048 | 2/3" | Sony IMX250 | 3.45 | GS | C | 24.5 | 49 | 75 | | |
| exo264 | 5 | 2,448 × 2,048 | 2/3" | Sony IMX264 | 3.45 | GS | C | 24.5 | – | 35 | | |
| exo547 | 5 | 2,448 × 2,048 | 2/3" | Sony IMX547 | 2.74 | GS | C | 24.5 | – | – | | |
| exo428 | 7.1 | 3,208 × 2,200 | 1.1" | Sony IMX428 | 4.54 | GS | C | 17.4 | – | 51.4 | | |
| exo546 | 8.1 | 2,840 × 2,840 | 2/3" | Sony IMX546 | 2.74 | GS | C | 15 | – | – | | |
| exo255 | 8.8 | 4,096 × 2,160 | 1" | Sony IMX255 | 3.45 | GS | C | – | – | 42 | | |
| exo253 | 12.3 | 4,096 × 3,000 | 1.1" | Sony IMX253 | 3.45 | GS | C | – | – | 30 | | |
| exo304 | 12.3 | 4,096 × 3,000 | 1.1" | Sony IMX304 | 3.45 | GS | C | 10 | 20 | 23 | | |
| exo545 | 12.3 | 4,096 × 3,000 | 1/1.1" | Sony IMX545 | 2.74 | GS | C | 10 | – | – | | |
| exo902 | 12.4 | 6,048 × 2,048 | 17.5 mm | Sony IMX902 | 2.74 | GS | C | 9 | – | 20 | PREL | |
| exo542 | 16.1 | 5,320 × 3,032 | 16.8 mm | Sony IMX542 | 2.74 | GS | C | 7 | – | 23 | | |
| exo901 | 16.4 | 8,016 × 2,048 | 22.7mm | Sony IMX901 | 2.74 | GS | C | 7.5 | – | 15 | NEW | |
| exo183 | 20.2 | 5,496 × 3,672 | 1" | Sony IMX183 | 2.4 | RS | C | 6 | 12 | 17 | | |
| exo541 | 20.3 | 4,504 × 4,504 | 17.45 mm | Sony IMX541 | 2.74 | GS | C | 6 | – | 18.4 | | |
| exo540 | 24.5 | 5,320 × 4,600 | 19.27 mm | Sony IMX540 | 2.74 | GS | C | 5 | – | 15 | | |

EXO M42 mount

These EXO models have fast GigE Vision or USB3 interfaces and provide image resolutions of up to 31.4 megapixels. The sensors have large 3.45 µm pixels,

delivering an excellent dynamic range up to 72 dB and high light sensitivity. Due to the sensor size, the cameras come with a M42 mount.

| | | | | | | | | | | GigE | USB3 |
|--------|------|--------------------|--------|-------------|------------|---------|-------|-----------------------|--|------|------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | |
| exo367 | 19.6 | 4,416 × 4,428 | 4/3 | Sony IMX367 | 3.45 | GS | M42 | 6.2 | | 19 | |
| exo342 | 31.4 | 6,464 × 4,852 | APS-C | Sony IMX342 | 3.45 | GS | M42 | 3.8 | | 12 | |

Compact cameras

e.g. traffic inspection

Tracer series

LED
INTEGRATED
LED-CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

BST
BURST MODE
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

MFT
MICRO FOUR THIRDS

USB3
VISION

GIG-E
VISION

EXO Tracer

The Tracer's lens mount is a Micro Four Thirds (MFT) mount, covering all electric connections for lightning fast control of the lens zoom, focus and aperture. The optical lens specification of MFT allows for the best optical results. The MFT mount opens up a wide range of high-quality lenses for the Tracer. Control options for exposure time, focus, zoom, aperture and strobe lighting through a single GenICam interface. Combining this lens control with high performance sensors up to 20 MP of resolution and 72dB dynamic range, the Tracer can deliver cutting edge imaging technology.

Special Features of the Tracer series:

- > Micro-Four-Thirds bayonet mount
- > Fast user control of zoom, aperture and focus
- > Lens settings controlled by GigE Vision interface, USB3 Vision and also GenICam
- > Selectable AOI (Area Of Interest)
- > SDK for Windows (32/64bit), Linux and macOS
- > Frame buffer: 256 MB
- > Dimensions [mm]: 58 × 58 × 45

| | | | | | | | | | | USB3 | GigE |
|-----------|------|--------------------|--------|--------------|------------|---------|-------|-----------------------|--|------|------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | |
| exo304 TR | 12.3 | 4,096 × 3,000 | 1.1" | Sony IMX 304 | 3.45 | GS | MFT | – | | 10 | |
| exo387 TR | 16.8 | 5,456 × 3,076 | 4/3" | Sony IMX 387 | 3.45 | GS | MFT | 22 | | 7.4 | |
| exo367 TR | 19.6 | 4,416 × 4,428 | 4/3" | Sony IMX 367 | 3.45 | GS | MFT | 19 | | 6.2 | |
| exo183 TR | 20.2 | 5,496 × 3,672 | 1" | Sony IMX 183 | 2.4 | RS | MFT | – | | 6 | |

Compact cameras

e.g. wafer inspection

FXO series

LED
INTEGRATED
LED-CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

PIV
PARTICLE IMAGE
VELOCIMETRY

PTP
PRECISION TIME
PROTOCOL

CAMERA
HOUSING
x 50 mm

25
GIG-E
VISION
+RDM+

10
GIG-E
VISION

100
GIG-E
VISION
+RDM+

FXO - High image quality in a compact housing

The FXO offers an extremely flexible, powerful and at the same time costefficient camera concept that impresses with excellent image quality, fast interfaces, versatile inputs and an integrated, multi-channel GenICam Strobe Controller.

The Pregius S sensor from Sony with Global Shutter shines with outstanding image quality and is the heart of the FXO series. The 2.74 µm pixels enable high light sensitivity combined with very low noise characteristics. The excellent homogeneity and high dynamic range of the image set standards. In addition, the compact design allows the use of economical lenses and is easier to integrate in applications where space is limited.

CXP-12
1connection

CXP-12
2connections

| | | | | | | | | | | CXP12 | 10GigE | 25GigE |
|--------|------|--------------------|---------|-------------|------------|---------|-------|-----------------------|------|-------|--------|--------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | | |
| fxo425 | 1.8 | 1,600 × 1,104 | 17.6 mm | Sony IMX425 | 9 | GS | C | 662* | – | 671 | | |
| fxo421 | 2.8 | 1,936 × 1,472 | 11 mm | Sony IMX421 | 4.5 | GS | C | 413.5* | – | – | | |
| fxo537 | 5 | 2,448 × 2,048 | 8.8 | Sony IMX537 | 2.74 | GS | C | 262* | – | 262 | | |
| fxo547 | 5 | 2,448 × 2,048 | 1/1.8 | Sony IMX547 | 2.74 | GS | C | 124.3 | 124 | – | | |
| fxo420 | 7.1 | 3,216 × 2,208 | 17.6 mm | Sony IMX420 | 4.5 | GS | C | 207* | – | – | | |
| fxo546 | 8 | 2,840 × 2,840 | 11.1 mm | Sony IMX546 | 2.74 | GS | C | 88 | 88 | – | | |
| fxo536 | 8.1 | 2,848 × 2,848 | 11.1 | Sony IMX536 | 2.74 | GS | C | 195* | – | 195 | | |
| fxo535 | 12.3 | 4,096 × 3,008 | 14 | Sony IMX535 | 2.74 | GS | C | 182.5* | – | 182.5 | | |
| fxo545 | 12.3 | 4,096 × 3,000 | 1/1.1 | Sony IMX545 | 2.74 | GS | C | 61 | 61 | – | | |
| fxo902 | 12.4 | 6,048 × 2,048 | 17.5 mm | Sony IMX902 | 2.74 | GS | C | 135.4* | 98.1 | – | PREL | |
| fxo542 | 16.1 | 5,320 × 3,032 | 16.8 mm | Sony IMX542 | 2.74 | GS | C | 45.6 | 45.6 | – | | |
| fxo532 | 16.2 | 5,328 × 3,040 | 16.8 mm | Sony IMX532 | 2.74 | GS | C | 144* | – | 144 | | |
| fxo901 | 16.4 | 8,016 × 2,048 | 22.7mm | Sony IMX901 | 2.74 | GS | C | 135.4* | 73.6 | – | NEW | |
| fxo541 | 20.2 | 4,480 × 4,504 | 17.5 mm | Sony IMX541 | 2.74 | GS | C | 33.1 | 35.7 | – | | |
| fxo531 | 20.4 | 4,512 × 4,512 | 17.5 mm | Sony IMX531 | 2.74 | GS | C | 109.5* | – | 109.5 | | |
| fxo540 | 24.4 | 5,312 × 4,600 | 19.3 mm | Sony IMX540 | 2.74 | GS | C | 30.4 | 30.4 | – | | |
| fxo530 | 24.6 | 5,328 × 4,608 | 19.3 mm | Sony IMX530 | 2.74 | GS | C | 97.6* | – | 97.6 | | |

* CoaXPress12 with 2 connections

High Resolution cameras

e.g. electronics inspection

HR series

LED
INTEGRATED
LED-CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

PTP
PRECISION TIME
PROTOCOL

Thermoelectric
Cooled (TEC)

10
GIG-E
VISION

CAMERA
LINK

CXP-12
4connections

HR - High Resolution and Speed

The HR series combines High-Resolution image sensors with powerful, state-of-the-art Machine Vision interfaces. The camera achieves data rates of up to 25 Gbit/s and resolutions of up to 65 megapixels. The sophisticated, durable housing provides excellent temperature management and enables fanless operation on almost all models, even with large sensors. The M58 lens thread has been designed so that almost all lenses can be connected using appropriate adapters and can be optimally matched to your imaging task. The IO concept offers programmable IO logic, sequencer, timer, SafeTrigger and an integrated 4-channel LED flash control. The controller integrated in the camera's GenICam tree can be controlled via any GenICam application or the SDK. Now also available as a new „-T“ version: The combination of thermoelectric cooling (TEC) and heating with advanced, dust-proof ventilation ensures a stable sensor temperature and therefore greater reliability and consistent image quality.

Special Features of the HR series:

- > CMOS sensors from Sony, Canon and ON Semi
- > Monochrome and Color (Bayer Pattern / auto white balance)
- > Housing with M58 lens thread
- > At least 128 MB of internal image storage, Burst Mode (GigE/10GigE)
- > 14-bit AD converter with 8 or 12-bit transmission
- > Shading correction, defect pixel correction
- > ROI, LUT, Binning, Gamma, Offset
- > GenICam und GenTL Interface
- > Integrated multi-channel LED strobe controller
- > Industrial TTL-24V I/O Interface with SafeTrigger, programmable logic functions, sequencers, and timers, RS232
- > SDK for Windows (32/64bit), Linux and macOS
- > -T versions only: particularly stable image quality thanks to TEC
- > Ideal for cleanrooms (fanless option)

| | | | | | | | | | | 10GigE | CL | CXP | CXP-12 |
|---------|------|--------------------|----------|-------------------|------------|---------|-------|-----------------------|------|--------|----|-----|--------|
| Model | [MP] | Resolution [pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | | | |
| hr387 | 16.7 | 5,456 × 3,076 | 21.7 mm | Sony IMX387 | 3.45 | GS | M58/F | 56.4 | – | – | – | | |
| hr25 | 25 | 5,120 × 5,120 | 32.5 mm | ON Semi Python25K | 4.5 | GS | M58/F | – | 31.8 | 81 | – | | |
| hr342 | 31.4 | 6,464 × 4,852 | 27.9 mm | Sony IMX342 | 3.45 | GS | M58/F | 35.4 | – | 35.7 | – | | |
| hr49 | 49 | 7,008 × 7,000 | 37.4 mm | GMAX3265-49 | 3.2 | GS | M58/F | – | 17 | 30 | 71 | | |
| hr51 | 51 | 8,424 × 6,032 | 35 mm | GMAX4651 | 4.6 | GS | M58/F | 23.7 | – | 30 | – | | |
| hr455 | 61 | 9,568 × 6,380 | 43.24 mm | Sony IMX455 | 3.76 | RS | M58/F | 18 | – | 18 | – | | |
| hr455-T | 61 | 9,568 × 6,380 | 43.24 mm | Sony IMX455 | 3.76 | RS | M58/F | 18 | – | – | – | NEW | |
| hr65 | 65 | 9,344 × 7,000 | 37.4 mm | GMAX3265 | 3.2 | GS | M58/F | 17.4 | 13 | 35.5 | 71 | | |

PoE+ versions on request; all 10GigE cameras with PTP mode, -T: with built-in thermoelectric cooler (TEC)

High Resolution cameras

e.g. display inspection

SHR series

LED

SEQ

STT

PLC

PTP

Thermoelectric Cooled (TEC)

10 GIGEVISION

CXP-12

4 connections

SHR - Maximum Resolution

For applications that need to be inspected in great detail, High-Resolution and fast image transfer are required. With CMOS sensors and an outstanding resolution of up to 245 megapixels, the SHR series sets new standards. All cameras offer extensive I/O functions with Sequencer and integrated Strobe Controller. High structural precision in sensor alignment and housing ensure accurate image reproduction and secure mounting of camera mount, adapters and lenses. The half-format SHR is equipped with a standardized M72 thread, allowing access to a wide range of lenses and adapter rings. The short flange distance of 19.55 mm allows the highest quality lens systems to be individually adapted to almost any task. Now also available as a new „T“ version: The combination of thermoelectric cooling (TEC) and heating with advanced, dust-proof ventilation ensures a stable sensor temperature and therefore greater reliability and consistent image quality.

| 10GigE | | | | | | | | | | |
|----------|-------|--------------------|----------|-------------|------------|---------|-------|-----------------------|-----|----------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | |
| shr461 | 101.8 | 11,648 × 8,742 | 55 mm | Sony IMX461 | 3.76 | RS | M72 | 8.7 | 8.7 | – |
| shr661 | 127.6 | 13,392 × 9,528 | 56.73 mm | Sony IMX661 | 3.45 | GS | M72 | 8.2 | – | 20.3 |
| shr411 | 151 | 14,192 × 10,640 | 66.7 mm | Sony IMX411 | 3.76 | RS | M72 | 6.1 | 6.1 | – |
| shr411-T | 151 | 14,192 × 10,640 | 66.7 mm | Sony IMX411 | 3.76 | RS | M72 | 6.1 | – | NEW |
| shr811 | 245 | 19,200 × 12,800 | 64.84 mm | Sony IMX811 | 2.81 | GS | M72 | – | – | 12.4 NEW |

all 10GigE cameras with PTP mode; PoE versions on request, -T: with built-in thermoelectric cooler (TEC)

Invisible Wavelength cameras

e.g. moisture inspection with UV

SWIR & UV cameras

LED

SEQ

STT

BST

PLC

10 GIGEVISION

CXP-12

1 connection

USB VISION

SWIR Cameras

SVS-Vistek SWIR cameras incorporate Sony SenSWIR technology and the proven EXO and FXO camera platforms. Thanks to their wide spectral range and high sensitivity, SVS-Vistek SWIR cameras combine the benefits of an extremely compact footprint with a range from 400 nm VIS to the SWIR range at 1700 nm. With an innovative thermal design, users can have outstanding optical quality and dynamic range results, potentially using a single camera for multiple areas of the light spectrum.



| GigE | | | | | | | | | | | | |
|--------|------|--------------------|---------|-------------|------------|---------|-------|-----------------------|--------|--------|-------|---|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | | |
| exo991 | 0.3 | 640 × 512 | 1/4" | Sony IMX991 | 5 | GS | C | 260 | – | – | – | – |
| exo990 | 1.3 | 1,280 × 1,024 | 1/2" | Sony IMX990 | 5 | GS | C | 94.4 | – | – | 125.4 | – |
| fxo990 | 1.3 | 1,280 × 1,024 | 1/2" | Sony IMX990 | 5 | GS | C | – | – | 134 | – | – |
| fxo993 | 3.1 | 2,048 × 1,536 | 8.9 mm | Sony IMX993 | 3.45 | GS | C | – | 173.4* | 173.4* | – | – |
| fxo992 | 5.2 | 2,560 × 2,048 | 11.4 mm | Sony IMX992 | 3.45 | GS | C | – | 132* | 132* | – | – |

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

Ultraviolet Cameras

e.g. moisture inspection with UV

UV cameras

LED

SEQ

STT

BST

PLC

10 GIGEVISION

CXP-12

2 connections

| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | |
|--------|------|--------------------|--------|-------------|------------|---------|-------|-----------------------|----|------|--|
| fxo487 | 8.1 | 2,840 × 2,840 | 2/3" | Sony IMX487 | 2.74 | GS | C | 87 | 87 | 195* | |

* CoaXPress12 with 2 connections

Invisible Wavelength cameras

e.g. scratch detection

POL cameras

LED

SEQ

STT

BST

PLC

10 GIGEVISION

CXP-12

4 connections

Polarized Cameras

Polarized cameras are equipped with special image sensors and measure the polarization properties of light that are imperceptible to the human eye. The degree of polarization and the planes of polarization can be determined from a single image. Global shutter, high resolution, high optical dynamic range and high frame rate allow detailed structural analysis of even moving objects.

Special Features of our Polarized Cameras:

- 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

| GigE | | | | | | | | | | USB3 |
|--------|------|--------------------|--------|----------------|------------|---------|-------|-----------------------|------|------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | |
| exo264 | 5 | 2,448 × 2,048 | 2/3" | Sony IMX264MZR | 3.45 | GS | C | 24.5 | 24.5 | 35 |
| exo250 | 5 | 2,448 × 2,048 | 2/3" | Sony IMX250MZR | 3.45 | GS | C | 24.5 | 24.5 | 75 |
| exo253 | 12.3 | 4,096 × 3,000 | 1.1" | Sony IMX253MZR | 3.45 | GS | C | 10 | 10 | 30 |

High-Speed cameras

e.g. sport analysis

EoSens series

LED

SEQ

STT

BST

PLC

10 GIGEVISION

CXP-12

4 connections

High-Speed Cameras

Our High-Speed cameras of Mikrotron are used in industrial image processing wherever processes need to be examined within a few milliseconds. With frame rates of up to 225.000 fps, the most precise analyses

of processes and objects are possible. If the focus is on high resolutions, recording speeds of several hundred frames per second are still possible.

| CL | | | | | | | | | | | |
|-------------|------|--------------------|--------|-------------|------------|---------|------------------|-----------------------|-----|-------|-----|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | | |
| EoSens 1.1 | 1.1 | 1,280 × 864 | 4/3" | Lux13HS | 13.7 | GS | C / F | – | – | 3,674 | |
| EoSens 2.0 | 2 | 1,920 × 1,080 | 4/3" | Lux19HS | 10 | GS | C / F | – | – | 2,247 | |
| EoSens 4.0 | 4 | 2,336 × 1,728 | 4/3" | AM4I | 7 | GS | C / F | – | 563 | – | |
| EoSens 9.5* | 9.5 | 4,096 × 2,304 | 2" | LUX9512 | 6.5 | GS | M58 / Flat Front | – | – | 503 | NEW |
| EoSens 10* | 10 | 4,608 × 2,176 | 4/3" | Gsprint4510 | 4.5 | GS | M42 / F | – | – | 463 | NEW |
| EoSens 21* | 21 | 5,120 × 4,096 | 29.5mm | Gsprint4521 | 4.5 | GS | F / Flat Front | – | – | 230 | NEW |

*new design

Programmable Cameras

The EoSens Creation is a user-programmable high-speed camera with an open platform concept. It enables users to process image data in real time at up to 40 Gbps directly in the camera, which is a factor of up to 100 compared to normal smart cams. About 70% of the FPGA is available for custom applications.

Thus, with custom applications, it can process raw images already in the camera and output the final results or stream images like a machine vision camera. The internal processing removes the bandwidth limitation of the interface.

| 10GigE | | | | | | | | | | CXP-12 |
|------------|------|--------------------|--------|---------|------------|---------|-------|-----------------------|---|--------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Frame Rate [fps] | | |
| EoSens 1.1 | 1.1 | 1,280 × 864 | 4/3" | Lux13HS | 13.7 | GS | C / F | – | – | 3,674 |
| EoSens 2.0 | 2 | 1,920 × 1,080 | 4/3" | Lux19HS | 10 | GS | C / F | 536 | – | 2,247 |

High-Speed cameras

e.g. drill head analysis

Quad, Mini, Cube

LED

SEQ

STT

BST

PLC

10 GIGEVISION

CXP-12

4 connections

High-Speed Recording Cameras

The monitoring and examination of industrial processes with High-Speed cameras is an important tool for the efficient analysis of faulty production steps. MotionBLITZ® Recording Cameras store the image data directly in the camera without a host PC. This allows

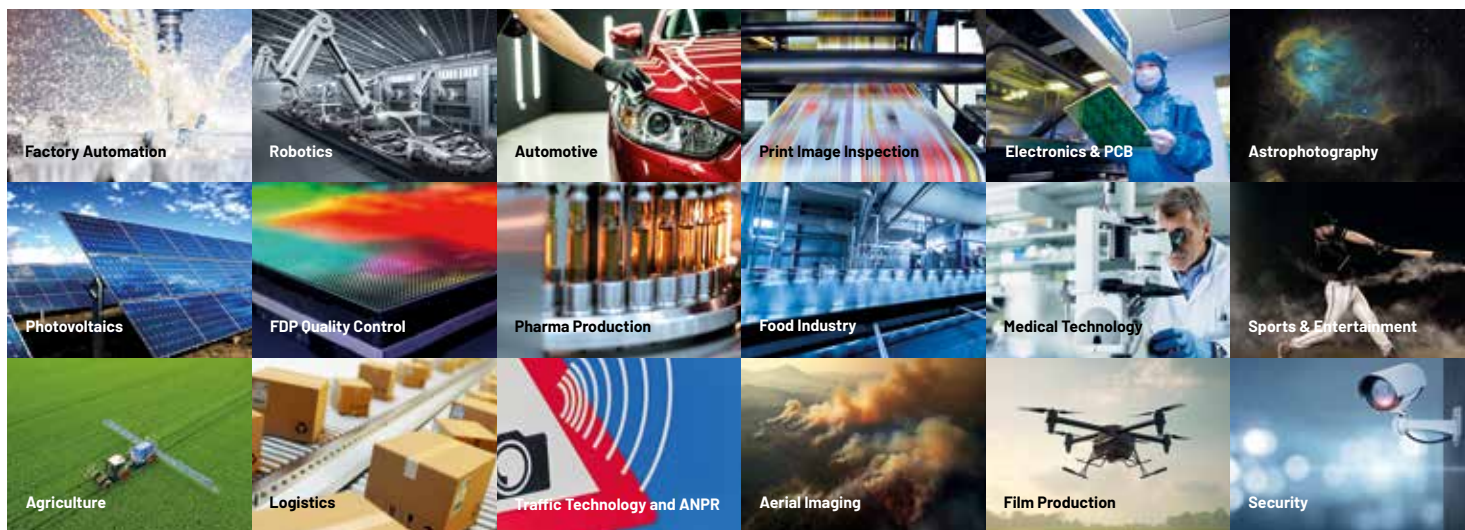
High-Speed recordings without complicated test setup. The extremely compact High-Speed cameras reliably deliver meaningful images even under difficult lighting conditions, varying temperatures, vibrations and strong shocks.

| 2 GB | | | | | | | | | | | | |
|----------|------|--------------------|--------|------------|------------|---------|--------|-------------------------|------|-------|------|---------|
| Model | [MP] | Resolution [Pixel] | Format | Sensor | Pixel [µm] | Shutter | Mount | max. Recording Time [s] | | | | |
| Quad 1.1 | 1.1 | 1,280 × 864 | 4/3" | Lux13HS | 13.7 | GS | C / FG | – | – | 2.48 | 4.96 | – |
| Cube 2 | 1.3 | 1,280 × 1,024 | 1" | MV-13 | 12 | GS | C | – | 6.53 | – | – | – |
| Cube 4 | 1.3 | 1,280 × 1,024 | 1" | MV-13HS | 12 | GS | C / FG | – | 3.24 | 6.48 | – | – |
| Cube 6 | 1.3 | 1,280 × 1,024 | 4/3" | LUPA1300-2 | 14 | GS | C / FG | – | – | 12.95 | – | – |
| Mini 1 | 1.3 | 1,280 × 1,024 | 4/3" | LUPA1300-2 | 14 | GS | C / FG | 3.24 | 6.48 | – | – | – |
| SMR 2.0 | 2 | 1,920 × 1,080 | 4/3" | Lux19HS | 10 | GS | C / FG | – | – | – | – | 8.7 NEW |
| Mini 2 | 3 | 1,696 × 1,710 | 4/3" | LUPA3000 | 8 | GS | C / FG | 1.41 | 2.82 | – | – | – |

Supported Features and Technologies:

- Resolution up to 245 megapixel
- Up to 225.000 fps
- Global and Rolling Shutter CMOS sensors
- Monochrome and Color Versions (Bayer Pattern)
- White balance for color versions (one shot, continuous or manual)
- programmable logic I/O functionality with timers
- User-definable AOI (Area of Interest)
- Binning Modes for higher frame rates
- Shading Correction
- Defect Pixel Correction
- Adjustable Gain and Offset
- Auto-Exposure and Auto-Gain
- Image Flip
- Lookup Table (LUT)
- Exposure controlled by Trigger, manually or automatically
- 8, 10, 12 or 16 Bit
- Wide Range of Power Inputs: 10 – 25 V DC
- Various Trigger (int./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)
- Thermoelectric Cooling (TEC)
- 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, 10GigE, or 25 GigE Interface
- Camera Link Interface
- USB3 Interface
- CoaXPress6 und CoaXPress12 Interface
- GigE Vision, USB3 Vision and GenICam Standard Compliant
- Support for most Lens Mount Standards
- Micro-Four-Thirds Bayonet (MFT) Standard supported
- SDK Software for Windows (32/64 Bit), Linux and macOS available
- Intuitive Graphical User Interface
- Power over Camera Link (PoCL) on request
- Power over Ethernet (PoE) on request
- Power over CoaXPress (PoCXP)
- Power over USB (PoUSB)

Your individual Solution for your Application Field:



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

and many more...

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