SWIR InGaAs MODULE FOR SHORT EXPOSURES



### **XSW 320 Gated Series**



SWIR InGaAs MODULE FOR SHORT EXPOSURES

#### **KEY FEATURES**



EXTREMELY SHORT 100 ns INTEGRATION TIME

SMALL SWIR AREA-SCAN MODULE

**INDUSTRY STANDARD INTERFACES** 

The XSW 320 Gated series is based on an inhouse developed temperature stabilised InGaAs detector with a 320 x 256 pixel resolution. The XSW 320 Gated modules are able to provide maximum frame rates up to 400 Hz.

The exposure time of the sensor is configurable from 100 ns up to 1 ms in steps of 100 ns, or from 1 ms to 40 ms. The module comes with either CameraLink, GigE Vision or QTE Samtec interface.

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### **XSW 320 Gated Series**



#### **KEY PERFORMANCES**

Image format / Pixel pitch	320 X 256 pixels/20 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Sensor temperature stabilization	TE cooler
Spectral range	900 - 1700 nm
Max frame rate (full frame)	400 Hz
Power consumption	2.5 W (no TE cooler); 2.8 W (no TE cooler); 4 W (no TE cooler)
Power supply voltage	DC 12 V
FUNCTIONS & INTERFACES	

Command and control	CameraLink Base; GigE Vision; QTE Samtec
Connector trigger	SMA (CL and GigE)
Camera dimensions (width x height x length)	45 mm x 45 mm x 56 mm (CL), 45 mm x 45 mm x 65 mm (GigE), 45 m x 45 mm x 52 mm (16 bit DV)
Optical interface (optional)	C-mount or M42
Camera weight	129 gr (CL); 165 gr (GigE); 122 gr (16bit DV)

#### **PRODUCT SELECTOR GUIDE**

XEN-000594 (XSW 320 CL Gated) XEN-000596 (XSW 320 16bitDV Gated) XEN-000593 (XSW 320 GigE Gated)

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SMALL, HIGH PERFORMANCE InGaAs CAMERA MODULE



# XSW 320 Series



SMALL , HIGH PERFORMANCE InGaAs CAMERA MODULE

#### **KEY FEATURES**



FLEXIBLE AND EASY TO USE

SMALL SWIR AREA-SCAN MODE

INDUSTRY STANDARD INTERFACES

The XSW 320 series is based on an in-house developed, temperature stabilized InGaAs detector with a 320 x 256 pixel resolution. XSW 320 camera modules are offered with frame rates of up to 400 Hz.

The camera modules come with either a CameraLink, GigE Vision or QTE Samtec interface and features low weight and power.

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## XSW 320 Series



#### KEY PERFORMANCES

Image format / Pixel pitch	512 or 1024 or 2048 pixels / 12.5 or 25 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max frame rate (full frame)	100 Hz or 400 Hz
Power consumption	2.5 W (no TE cooler); 2.8 W (no TE cooler); 4 W (no TE cooler
Power supply voltage	DC 12 V

Power supply voltage

#### FUNCTIONS & INTERFACES

Command and control	CameraLink Base; GigE Vision; QTE Samtec
Connector trigger	SMA (CL and GigE)
Camera dimensions (width x height x length)	45 mm x 45 mm x 37 mm (CL); 45 mm x 45 mm x 55 mm (GigE); 45 mm x 45 mm x 28 mm (16-bit DV)
Optical interface (optional)	C-mount or M42
Camera weight	129 gr (CL); 165 gr (GigE); 122 gr (16bit DV)

#### PRODUCT SELECTOR GUIDE

XEN-000532 (XSW 320 CL 100) XEN-000531 (XSW 320 GigE 100) XEN-000529 (XSW 320 16bitDV 100) XEN-000591 (XSW 320 CL 400) XEN-000592 (XSW 320 GigE 400) XEN-000595 (XSW 320 16bitDV 400)

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SMALL, HIGH PERFOMANCE InGaAs MODULE WITH HIGH IMAGE RESOLUTION



## XSW 640 Series



SMALL , HIGH PERFOMANCE InGaAs MODULE WITH HIGH IMAGE RESOLUTION

### **KEY FEATURES**



The XSW 640 series is based on an in-house developed temperature stabilised InGaAs detector with a 640 x 512 pixel resolution. The XSW 640 modules are offered with frame rate of up to 100 Hz.

The module comes with either a CameraLink, GigE Vision or QTE Samtec interface and features low weight and power. visible shortwave (vSWIR) option is also offered for extended wavelength into the visible band.

**>>>** 

## **XSW 640 Series**



#### **KEY PERFORMANCES**

Image format / Pixel pitch	640 X 512 pixels/20 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm (SWIR); 500 - 1700 nm (vSWIR)
Max frame rate (full frame)	100 Hz
Power consumption	2.5 W (no TE cooler); 2.8 W (no TE cooler); 4 W (no TE cooler)
Power supply voltage	DC 12 V

#### FUNCTIONS & INTERFACES

Command and control	CameraLink Base; GigE Vision; QTE Samtec
Connector trigger	SMA (CL and GigE)
Camera dimensions (width x height x length)	45 mm x 45 mm x 56 mm (CL), 45 mm x 45 mm x 65 mm (GigE), 45 m x 45 mm x 52 mm (16 bit DV)
Optical interface (optional)	C-mount or M42
Camera weight	129 gr (CL); 165 gr (GigE); 122 gr (16bit DV)

#### PRODUCT SELECTOR GUIDE

XEN-000343 (XSW 640 CL) XEN-000341 (XSW 640 GigE) XEN-000295 (XSW 640 16bitDV) XEN-000344 (XSW 640 CL vSWIR) XEN-000342 (XSW 640 GigE vSWIR) XEN-000098 (XSW 640 16bitDV vSWIR)



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