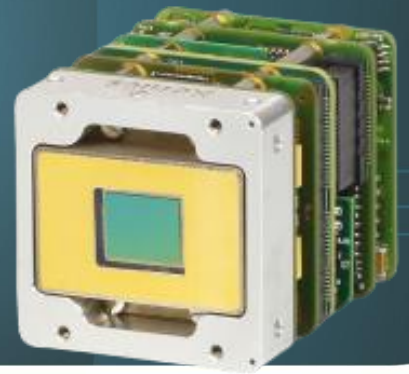


SMALL, HIGH PERFORMANCE InGaAs  
MODULE WITH HIGH IMAGE RESOLUTION

**EXOSENS**  
REVEAL THE INVISIBLE

# XSW 640 Series



*SMALL, HIGH PERFORMANCE InGaAs MODULE  
WITH HIGH IMAGE RESOLUTION*

## KEY FEATURES



**LOW NOISE, LOW DARK CURRENT**



**VERSATILITY WITH GAIN MODES**



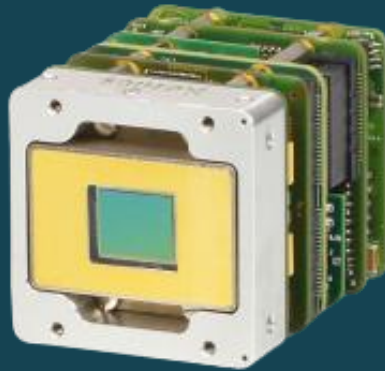
**INDUSTRY STANDARD INTERFACES**

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 short-wave (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 $\mu$ m                                       |
| 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);<br>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),<br>45 mm x 45 mm x 65 mm (GigE),<br>45 mm 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-000344 (XSW 640 CL vSWIR)      |
| XEN-000341 (XSW 640 GigE)    | XEN-000342 (XSW 640 GigE vSWIR)    |
| XEN-000295 (XSW 640 16bitDV) | XEN-000098 (XSW 640 16bitDV vSWIR) |

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