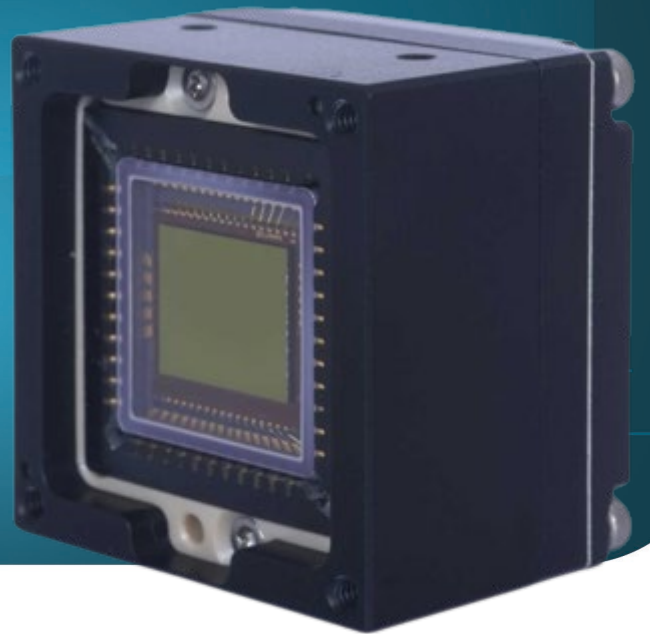


**FULL TECLESS  
SWIR CAMERA CORE**

**Xenics**  
EXOSENS GROUP

# Aion 640



*COMPACT SWIR CAMERA  
UP TO 178 FPS*

## KEY FEATURES



**VERY COMPACT SWIR CAMERA  
CORE – 30 X 30 mm**



**FULL TECLESS TECHNOLOGY**



**FRAME RATE UP TO 178 FPS**

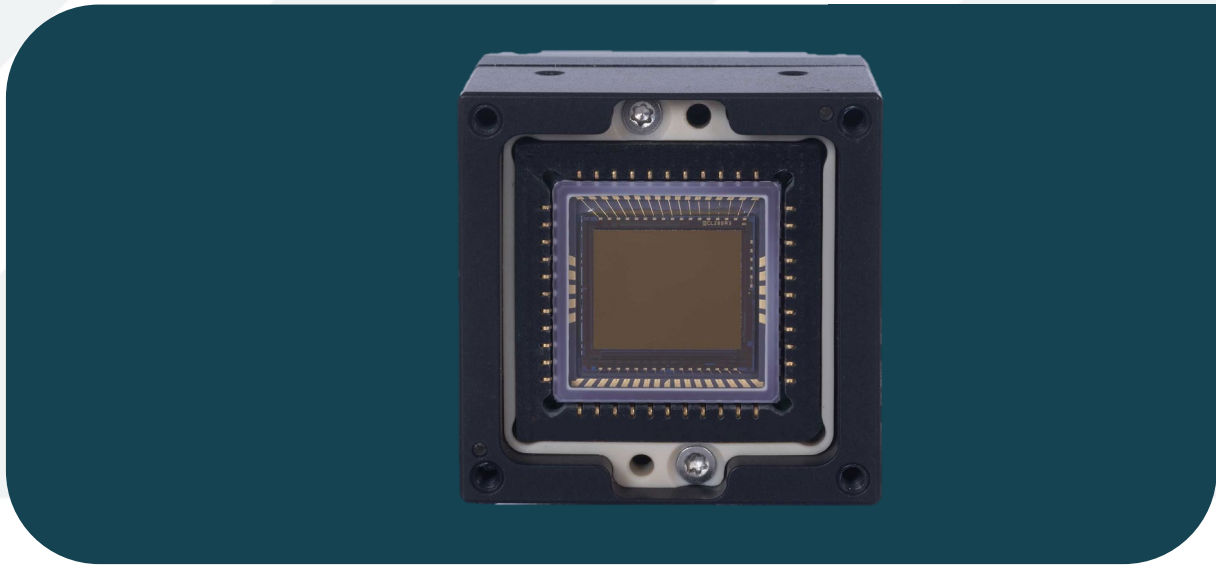
Aion represents ultra-compact core features of full tecless implementation in InGaAs shortwave infrared detector.

The high-performance sensor and low noise feature offers the best solution for OEMs and integrators for their demanding applications.

This camera core enables agile modular concept and architecture for easy integration into systems and platforms.



# Aion 640



## KEY PERFORMANCES

|                             |                                     |
|-----------------------------|-------------------------------------|
| Sensor                      | InGaAs - Photodiode                 |
| Resolution / Pixel Pitch    | 640 x 512 pixels / 15 $\mu\text{m}$ |
| Spectral Range              | 0.9 – 1.7 $\mu\text{m}$             |
| Operating temperature range | -20°C to +60°C                      |
| Read-out noise              | < 50 e- (in high gain)              |
| Power consumption           | < 1.2 W (@ 30 fps)                  |

## FUNCTIONS & INTERFACES

|                        |                              |
|------------------------|------------------------------|
| Image processing       | Host based only              |
| Output options         | DF40, CameraLink, USB        |
| Dimensions (L x B x H) | 30 x 30 x 26 mm <sup>3</sup> |
| Weight                 | < 50 g                       |

## PRODUCT SELECTOR GUIDE

|                                |
|--------------------------------|
| XEN-000931 (Aion 640 (178 Hz)) |
|--------------------------------|

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[exosens.com](http://exosens.com)

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REVEAL THE INVISIBLE