

**WORLD'S FASTEST SWIR  
InGaAs AREA-SCAN CAMERA**

**Xenics**  
EXOSENS GROUP

# Cheetah+ 640 Series



*WORLD'S FASTEST SWIR InGaAs AREA-SCAN  
CAMERA WITH HIGH IMAGE RESOLUTION*

## KEY FEATURES



**WORLD'S FASTEST SWIR AREA-  
SCAN IMAGING UP TO 1700 Hz**



**HIGH-QUALITY IMAGE**

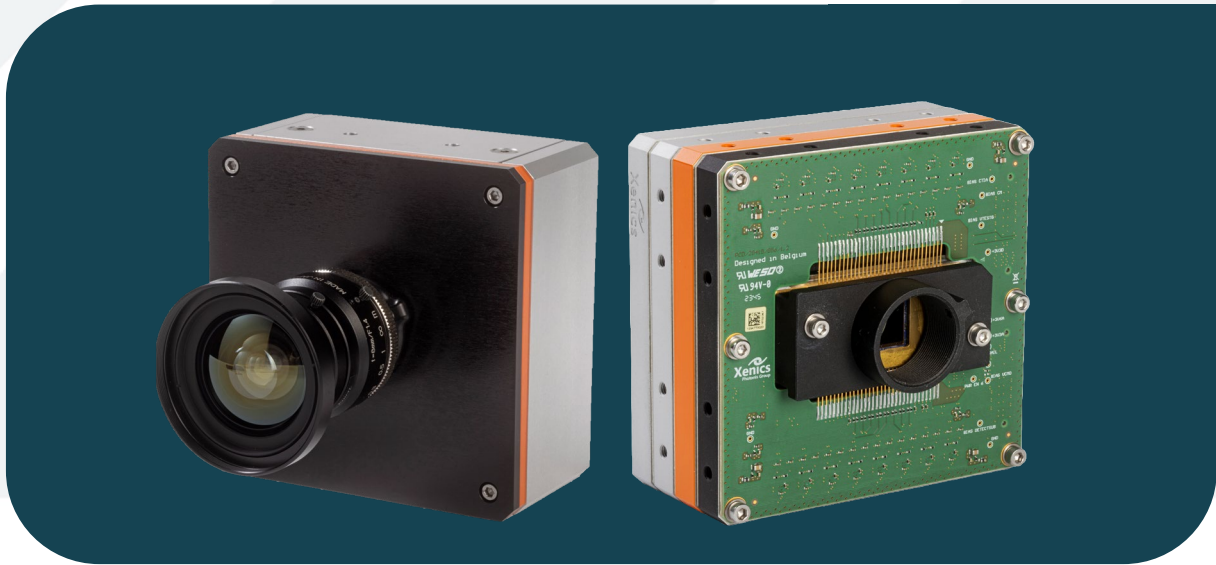


**STATE-OF-THE-ART SWIR  
PERFORMANCE**

The Cheetah+ series is based on an in-house developed, temperature stabilized InGaAs detector with a 640 x 512 pixel resolution. The Cheetah+ 640 offers high frame rates of 1700 Hz.

With its unique features of high-speed, high-resolution, and best sensitivity in a reliable InGaAs array, the Cheetah+ cameras are perfectly suited for high-speed imaging in the SWIR range for a variety of demanding applications.

# Cheetah+ 640 Series



## KEY PERFORMANCES

Image format / Pixel pitch	640 x 512 pixels/ 20 $\mu$ m
Detector type	InGaAs photodiode array with CTIA ROIC
Sensor cooling	TE1
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max frame rate (full frame)	1700 Hz
Power consumption (with cooling)	25.2 W (via power supply), 15.3 W (via CXP)
Power consumption (without cooling)	12.5 W
Power supply voltage	DC 24 V

## FUNCTIONS & INTERFACES

Command and control	CXP
Connector trigger	via unified connector
Camera dimensions (width x height x length)	100mm x 100mm x 73mm (OEM) 108mm x 108mm x 73mm (CAM)
Optical interface (optional)	C-mount
Camera weight	875 gr (OEM) 1206 gr (CAM)

## PRODUCT SELECTOR GUIDE

XEN-000946 (Cheetah+ 640 CXP OEM 1700)	XEN-000947 (Cheetah+ 640 CXP CAM 1700)
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