WORLD'S FASTEST InGaAs
AREA-SCAN CAMERA

Xenics
EXOSENS GROUP

Cheetah Series

WORLD'S FASTEST 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 camera with single-stage TE-cooled detector offers high frame rates of either 400 Hz, 800 Hz or 1700 Hz while the version with three-stage TE-cooled detector offers a frame rate of up to 110 Hz.

A visible short-wave infrared (vSWIR) option is available for extension into the visible wavelength band.

Cheetah Series

KEY PERFORMANCES

Image format / Pixel pitch	640 x 512 pixels/ 20 µm
Detector type	InGaAs photodiode array with CTIA ROIC
Sensor cooling	TE-cooled
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm (SWIR); 500 - 1700 nm (vSWIR)
Max frame rate (full frame)	111 Hz / 444 Hz / 865 Hz / 1730 Hz
Power consumption	Up to 25 W or 60 W
Power supply voltage	DC 12 V

FUNCTIONS & INTERFACES

Command and control	CameraLink
Connector trigger	SMA
Camera dimensions (width x height x length)	143 mm x 137 mm x 95 mm
Optical interface	C-mount
Camera weight	2000 gr

PRODUCT SELECTOR GUIDE

XEN-000175 (Cheetah 640 TE1 400)	XEN-000045 (Cheetah 640 TE1 400 vSWIR)
XEN-000577 (Cheetah 640 TE1 800)	XEN-000578 (Cheetah 640 TE1 800 vSWIR)
XEN-000176 (Cheetah 640 TE1 1700)	XEN-000046 (Cheetah 640 TE1 1700 vSWIR)
XEN-000271 (Cheetah 640 TE3)	

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