HIGH-RESOLUTION SWIR MEGAPIXEL CAMERA



## Wildcat+ 1280 Series



HIGH-RESOLUTION SWIR MEGAPIXEL CAMERA

#### **KEY FEATURES**



**HIGH-RESOLUTION SWIR IMAGING** 



**INDUSTRY PROVEN CAMERA DESIGN** 



FLEXIBLE OPTICAL MOUNT & LENS OPTIONS

Note: Available with support for trigger induced exposure time for external triggering – trigger induced exposure time functionality is only applicable to ITR mode. For more information, contact us at advancedimaging@exosens.com

The Wildcat+ 1280 series is based upon a state-of-the-art InGaAs photodiode array with 1280x1024 pixels and 5 µm pixel pitch. The camera offers superior, high resolution SWIR imaging capabilities, comes in a versatile and industry-proven Wildcat camera package (GenlCam compliant), and offers advanced onboard image processing.

The Wildcat+ 1280 camera outputs full frame images at 120 Hz via either a CameraLink or USB3 Vision interface.



## Wildcat+ 1280 Series



#### **KEY PERFORMANCES**

Image format / Pixel pitch	1280 x 1024 pixels/5 μm
Detector type	InGaAs
Integration type	Snapshot - global shutter
Spectral range	400 - 1700 nm
Max frame rate (full frame)	120 Hz
Power consumption	<7 W
Power supply voltage	DC 12 V

#### **FUNCTIONS & INTERFACES**

Command and control	CameraLink Base or USB3 Vision
Connector trigger	Lemo 1B.308 (unified connector)
Camera dimensions (width x height x length)	55 mm x 55 mm x 72 mm (CL); 55 mm x 55 mm x 91.5 mm (U3V)
Optical interface	C-mount or M42
Camera weight	345 gr (CL); 385 gr (U3V)

#### **PRODUCT SELECTOR GUIDE**

XEN-000814 (Wildcat+ 1280 CL) XEN-000815 (Wildcat+ 1280 U3V)









## Wildcat+ 640 Series



HIGH-RESOLUTION SWIR CAMERA

#### **KEY FEATURES**



**HIGH-RESOLUTION SWIR IMAGING** 



**INDUSTRY PROVEN CAMERA DESIGN** 



FLEXIBLE OPTICAL MOUNT & LENS OPTIONS

The Wildcat+640 series is based upon a state-of-the-art InGaAs detector with 640x512 pixels and 20 µm pixel pitch. The camera offers superior, high-resolution SWIR imaging capabilities, comes in a versatile and industry-proven Wildcat camera package (GenlCam compliant) and offers advanced on-board image processing.

The Wildcat+640 camera outputs full frame images up to 300 Hz via either a CameraLink or USB3 Vision interface.



## Wildcat+ 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
Max frame rate (full frame)	300 Hz
Power consumption	<7 W
Power supply voltage	DC 12 V

#### **FUNCTIONS & INTERFACES**

Command and control	CameraLink Base or USB3 Vision
Connector trigger	Lemo 1B.308 (unified connector)
Camera dimensions (width x height x length)	55 mm x 55 mm x 72 mm (CL); 55 mm x 55 mm x 91.5 mm (U3V)
Optical interface	C-mount or M42
Camera weight	316 gr (CL); 358 gr (U3V)

#### **PRODUCT SELECTOR GUIDE**

XEN-000874 (Wildcat+ 640 CL 300) XEN-000873 (Wildcat+ 640 U3V 300)









HIGH-RESOLUTION SWIR CAMERA



# Wildcat+ 640 TE0 and WL Series



HIGH-RESOLUTION SWIR CAMERA

#### **KEY FEATURES**



**HIGH-RESOLUTION SWIR IMAGING** 



**INDUSTRY PROVEN CAMERA DESIGN** 



FLEXIBLE OPTICAL MOUNT & LENS OPTIONS

The Wildcat+ 640 TE0 and WL series is based upon a state-of-the-art uncooled InGaAs detector with 640x512 pixels and 20 µm pixel pitch. The WL version uses a special windowless sensor package for laser beam analysis applications.

The camera offers superior, high-resolution SWIR imaging capabilities, comes in a versatile and industry-proven Wildcat camera package (GenlCam compliant) and offers advanced onboard image processing. The Wildcat+ 640 TE0 and WL cameras output full frame images at 220 Hz via either a CameraLink or USB3 Vision interface.



### Wildcat+ 640 TE0 and WL Series



#### **KEY PERFORMANCES**

Image format / Pixel pitch	640 x 512 pixels / 20 μm
Detector type	InGaAs photodiode array with CTIA ROIC (WL version comes without detector cover glass)
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max frame rate (full frame)	220 Hz
Power consumption	<7 W
Power supply voltage	DC 12 V

#### **FUNCTIONS & INTERFACES**

Command and control	CameraLink Base or USB3 Vision
Connector trigger	Lemo 1B.308 (unified connector)
Camera dimensions (width x height x length)	55 mm x 55 mm x 72 mm (CL); 55 mm x 55 mm x 91.5 mm (U3V)
Optical interface	C-mount or M42
Camera weight	316 gr (CL); 358 gr (U3V)

#### **PRODUCT SELECTOR GUIDE**

XEN-000721 (Wildcat+ 640 TE0 CL 200)	XEN-000719 (Wildcat+ 640 TE0 U3V 200)
XEN-000722 (Wildcat+ 640 WL CL 200)	XEN-000720 (Wildcat+ 640 WL U3V 200)









whole or in part, without the prior written consent of Xenics.



## Wildcat 640 Series



SMALL, HIGH PERFORMANCE INGAAS CAMERA WITH LOW NOISE AND HIGH DYNAMIC RANGE

#### **KEY FEATURES**



**HIGH-RESOLUTION SWIR IMAGING** 



**INDUSTRY PROVEN CAMERA DESIGN** 



LOW NOISE AND HIGH DYNAMIC RANGE

The Wildcat 640 series is based on an inhouse developed, temperature stabilized InGaAs detector with a 640 x 512 pixel resolution.

The cameras have standard on-board image correction featuring non-uniformity correction (NUC), bad pixel replacement (BPR) and automatic gain control (AGC). The Wildcat 640 is suitable for SWIR hyperspectral imaging, semiconductor inspection and laser beam analysis.



## Wildcat 640 Series



#### **KEY PERFORMANCES**

Image format / Pixel pitch	640 x 512 pixels / 20 μm
Detector type	InGaAs photodiode array with CTIA ROIC
Sensor temperature stabilization	TE cooler
Integration type	Snapshot - global shutter
Spectral range	900 - 1700 nm
Max frame rate (full frame)	110 Hz or 220 Hz
Power consumption	<7 W
Power supply voltage	DC 12 V

#### **FUNCTIONS & INTERFACES**

Command and control	CameraLink Base or USB3 Vision
Connector trigger	Lemo 1B.308 (unified connector)
Camera dimensions (width x height x length)	55 mm x 55 mm x 72 mm (CL); 55 mm x 55 mm x 91.5 mm (U3V)
Optical interface	C-mount or M42
Camera weight	316 gr (CL); 358 gr (U3V)

#### **PRODUCT SELECTOR GUIDE**

XEN-000676 (Wildcat 640 CL 100)	XEN-000662 (Wildcat 640 U3V 100)
XEN-000680 (Wildcat 640 CL 200)	XEN-000679 (Wildcat 640 U3V 200)



For more information please contact:

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