Imagine the invisible



Xeva-1.7-320 VisNIR

Cooled and stable for excellent VisNIR image quality research

1.00 Photoresponse (A/W) 0.80 VisNIR 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 Wavelength (µm)

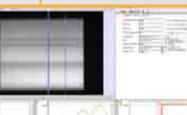
In one compact housing, the Xeva-1.7-320 VisNIR digital camera combines a thermo-electrically cooled InGaAs detector head and the control and communication electronics.

The Xeva-1.7-320 VisNIR unit is available with standard (up to 1.7 µm) InGaAs detector arrays and comes in various speed versions: 60 Hz, 100 Hz and 350 Hz. It allows you to choose the most suitable detectorcamera configuration for your

specific application. The camera head interfaces to a PC via standard USB 2.0 or CameraLink.

Each camera is delivered with a graphical user interface Xeneth, which offers direct access to various camera settings such as exposure time and operating temperature. The software tools include two-point uniformity correction and bad pixel replacement.

Designed for use in











⊪ R&D SWIR

- Art inspection
- Food inspection
- R&D (SWIR range)
- Laser beam profiling
- Hyperspectral imaging
- Semiconductor inspection
- Solar cell inspection EL/PL

Benefits & Features

- Spectrometer compatible
- Thermal imaging of hot objects
- High sensitivity for low-light conditions
- Extending SWIR imaging to the visible
- Cooled operation for low light-level imaging
- Flexible programming in an open architecture CameraLink and triggering for high speed imaging
- Extended coverage from SWIR into the visible range

Broad range of accessories available to simplify your research

8 mm lens 16 mm lens 25 mm lens 50 mm lens 75 mm lens • Xeneth advanced • Xeneth SDK

▶ Specifications

Array specifications	Xeva-1.7-320 VisNIR		
Array Type	InGaAs		
Spectral band	Standard: 0.9 to 1.7 μm; Optional: 0.4 to 1.7 μm		
# Pixels	320 x 256		
Pixel Pitch	30 μm		
Array Cooling	TE1-cooled down to 263K		
Pixel operability	> 99%		

Camera specifications	60 Hz	100 Hz	350 Hz		
Focal length	16mm f/1.4				
Optical interface	C-Mount, spectrogra (Broad selection of l				
Frame rate	60 Hz	100 Hz	350 Hz		
Integration type	Snapshot				
Exposure time range	1 µs up to 100 seconds (TE3; Low gain)				
Noise level: Low gain High gain					
S/N ratio: Low gain High gain	68 dB 60 dB				
A to D conversion resolution	12 bit or 14 bit				
Camera control	USB 2.0				
Image acquisition	USB 2.0 / CameraLink				
Trigger	TTL levels				
Graphical User Interface (GUI)	Xeneth Advanced				
Power consumption	< 4 Watt, cooler: 30 Watt max				
Input voltage	12 V				
Camera cooling	Forced convection co	ooling			
Ambient operating temperature	0 to 50 °C				
Dimensions	90 W x 110 H x 110 l	L mm³			
Weight camera head	App. 1.8 kg				
Weight power supply	300 g				

▶ Product selector guide

	Part number	Digital output Interface	Analog Interface	Cooling	Frame Rate	ADC
	XEN-000147	USB 2.0	No		100 Hz	12 bit
	XEN-000162		PAL			
	XEN-000164		NTSC TE1			
	XEN-000165		No	ILI	60 Hz	14 bit
	XEN-000106	CameraLink			100 Hz	
	XEN-000148				350 Hz	

