



Scientific and industrial IR imaging

enhancing scientific research – improving quality control

Highest quality and accuracy, robust compatible and easy to use!

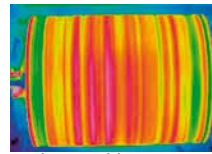
Improve the quality and accuracy of your research, development, quality and process control. Each user will have the best quality and highest performance in the full wavelength range from VisNIR, NIR to IR. You can detect smallest temperature differences as well as fastest temperature or intensity changes. Various interface options allow to use and integrate our cameras in all kind of set-ups.

In combination with the powerful and fast Xenics analysis and data acquisition software, we can offer complete solutions suiting your specification requirements. Or you just use the software development kit with actual drivers to create your personal system solution. Xenics NIR and IR cameras are serving today's and tomorrow's need.

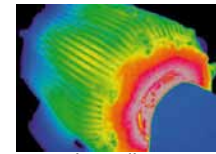
NIR and IR cameras for scientific and industrial imaging

- Flexible solution
- Powered from Europe
- Advanced inhouse design
- Dedicated service

Applications



High speed line-scan imaging



Critical installations monitoring



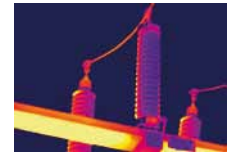
Stress analysis



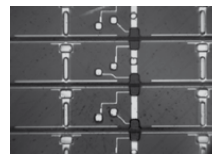
Fluid level monitoring



Thermal process control



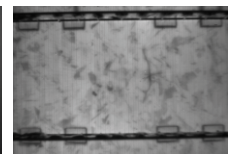
Maintenance



Failure analysis



Food inspection



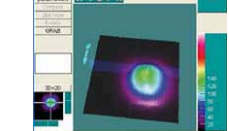
Solar cell inspection



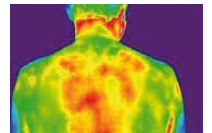
Art inspection



Hyperspectral imaging



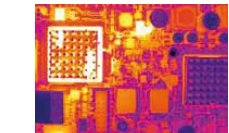
Laser beam profiling



Bio-Medical imaging

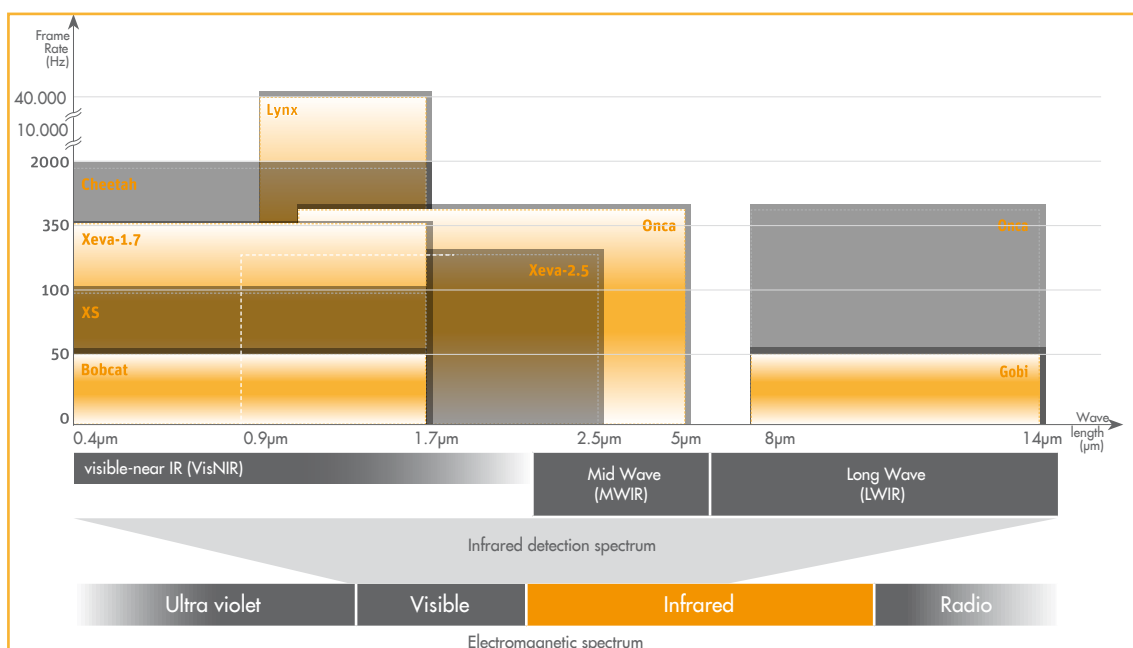


Semiconductor inspection



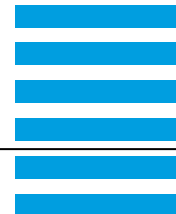
Thermal infrared imaging



Camera selection guide







Scientific and industrial IR imaging



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XS	Xeva 1.7
	
Ultra-compact and plug-and-play uncooled SWIR camera	Flexible SWIR camera with various control options
Uncooled InGaAs detector	TE1-cooled InGaAs detector, optional TE3
0.9 to 1.7 μm sensitivity, optional VisNIR	0.9 to 1.7 μm sensitivity, optional VisNIR
320 x 256 pixels	320 x 256 or 640 x 512 pixels
From 60 Hz to 100 Hz frame rate	From 60 Hz to 350 Hz frame rate
USB 2.0	USB 2.0 or CameraLink
Optional trigger input	External trigger input
Optional analog out	TrueNUC image correction
TrueNUC image correction	Thermography from 300 °C to 1200 °C
	Spectrograph compatible

Cheetah	Onca
	
World's fastest SWIR camera for real-time motion analysis	MWIR or LWIR camera for high performing thermal imaging
TE1-cooled InGaAs detector, optional TE3	Stirling cooled InSb, MCT or QWIP detector
0.9 to 1.7 μm sensitivity, optional VisNIR	Variations from 1.0 μm up to 5.0 μm or from 7.0 up to 13.0 μm sensitivity
640 x 512 pixels	320 x 256, 384 x 288 or 640 x 512 pixels
From 120 Hz to 1730 Hz frame rate	From 60 Hz to 488 Hz frame rate
>100.000 Hz in windowing mode	GigE or CameraLink and analog out
GigE or CameraLink	NETD \approx 20 mK
External trigger input	Built-in filter wheel with 5 filter positions
Optional on-board memory	No need for frequent recalibrations
Spectrograph compatible	SuperFraming for high dynamic range
	Thermography up to 2.000 °C

Bobcat	Xeva 2.5
	
Compact uncooled and smart SWIR camera for sharp imaging	Smallest TE4-cooled SWIR camera for stable imaging
Uncooled InGaAs detector	TE4-cooled MCT detector
0.9 to 1.7 μm sensitivity	0.85 to 2.5 μm sensitivity
320 x 256 or 640 x 512 pixels	320 x 256 pixels
From 25 Hz to 50 Hz frame rate	From 60 Hz to 200 Hz frame rate
Ethernet, CameraLink or GigE	USB 2.0 or CameraLink
Trigger input	Integration times up to 20 msec
Analog out	Thermography from 200 °C to 2.000 °C
Integration time down to 80 nsec	Spectrograph compatible
Two gain modes	
Advanced on-board image processing	

Lynx	Gobi
	
40 kHz high speed SWIR line-scan camera	Uncooled LWIR camera with real-time image processing
TE1-cooled InGaAs line array, optional TE3	Uncooled a-Si detector
0.9 to 1.7 μm sensitivity	8 to 14 μm sensitivity
512, 1024 or 2048 line pixels	384 x 288 or 640 x 480 pixels
From 10 kHz to 40 kHz line rate	From 9 Hz to 50 Hz frame rate
GigE or CameraLink	Ethernet, CameraLink or GigE
External trigger input	Trigger input
Square or rectangular pixels	Analog out
High Dynamic Range and High	Advanced on-board image processing
Sensitivity mode features	Thermography up to 1.200 °C
Spectrograph compatible	