

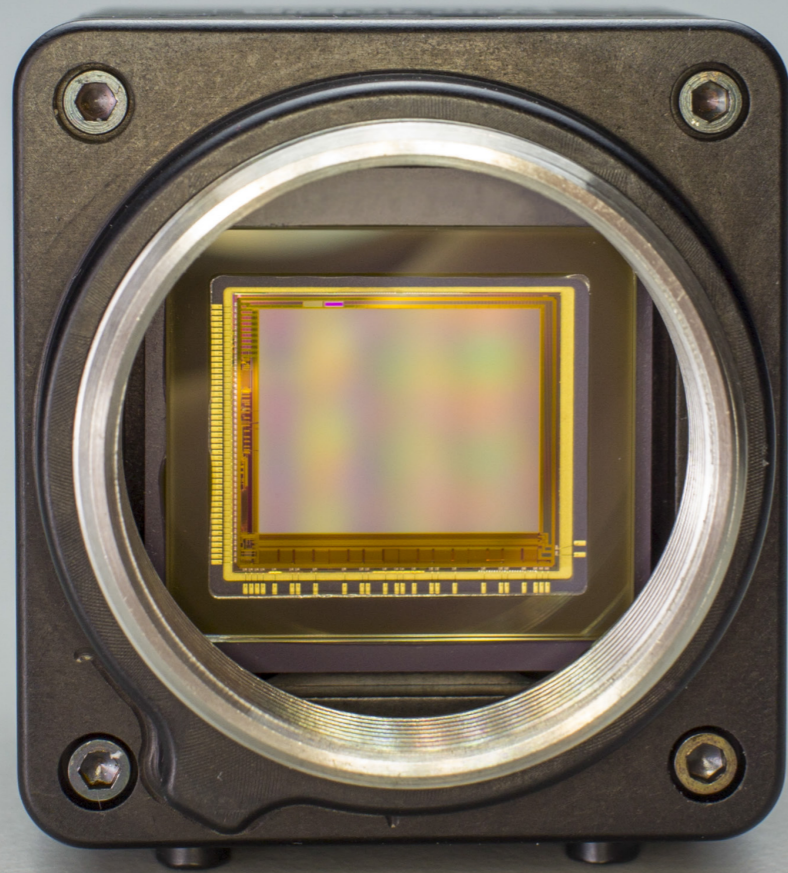
Lambert 

Lambert sCMOS

Effortless scientific imaging

The Lambert sCMOS offers a simple, affordable and efficient imaging solution for scientific research, R&D and industrial applications.





Scientific CMOS Sensor

Excellent light sensitivity

The Lambert sCMOS features an advanced image sensor with excellent light sensitivity. Even in the most challenging light conditions it captures detailed images.

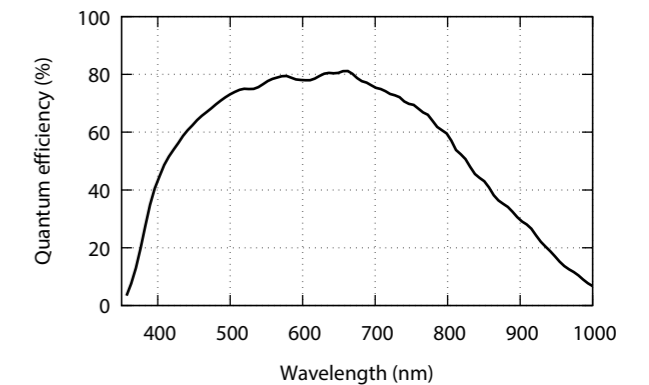


Lambert sCMOS

The Lambert sCMOS offers a simple, affordable and efficient imaging solution for scientific research, R&D, machine vision and other industrial applications. With its sCMOS image sensor, this camera produces excellent images in low-light conditions and situations that require a high dynamic range.

High quantum efficiency

With a quantum efficiency of up to 80%, the Lambert sCMOS has an excellent spectral sensitivity in the visible part of the spectrum.



Low light, high speed

Thanks to the low-light capabilities of its image sensor, the Lambert sCMOS records detailed images at frame rates up to 100 fps even in challenging low-light conditions.

Resolution (pixels)	Max. framerate (fps)
1280 x 1024	100
800 x 600	175
640 x 480	218
480 x 320	328
256 x 256	410



Capture

Easy image acquisition

With the Lambert Instruments Capture software, it is easy to record images and videos. Users can record, trim, analyze and export image data in widely supported image formats that are compatible with popular imaging platforms like ImageJ/Fiji.

Automatic configuration

The Lambert sCMOS automatically finds the optimal camera settings and captures detailed low-light images thanks to its automatic exposure control and on-the-fly image correction. Automatic exposure and gain control adapt the camera configuration to match the current light conditions. In manual mode, users can fine-tune all camera settings for advanced applications that require quantitative image data.

Flexible file format



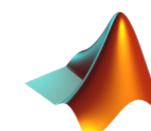
The Lambert Instruments .fli file format is compatible with ImageJ/Fiji through the Bio-Formats interface. Simply drag a .fli file into ImageJ to open them for analysis and processing.

Speaks your language

Capture has a flexible Application Programming Interface (API) that lets you integrate its functionality in your platform of choice. The Capture API .Net Assembly can be used in combination with many software platforms, including:



LabVIEW



MATLAB



Python



Java



C/C++



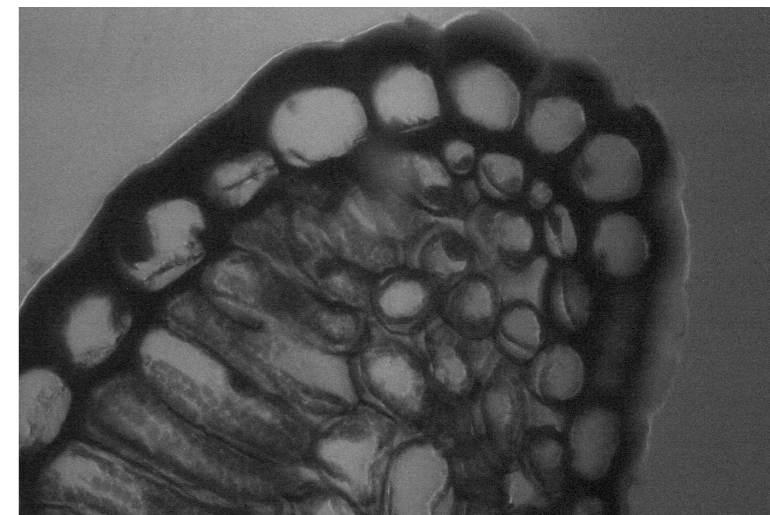
Ready when you are

When you're ready to image your samples you don't want to be held back by your camera. That's why we designed our Capture software in combination with the Lambert sCMOS to work quickly and intuitively so you can focus on your samples.

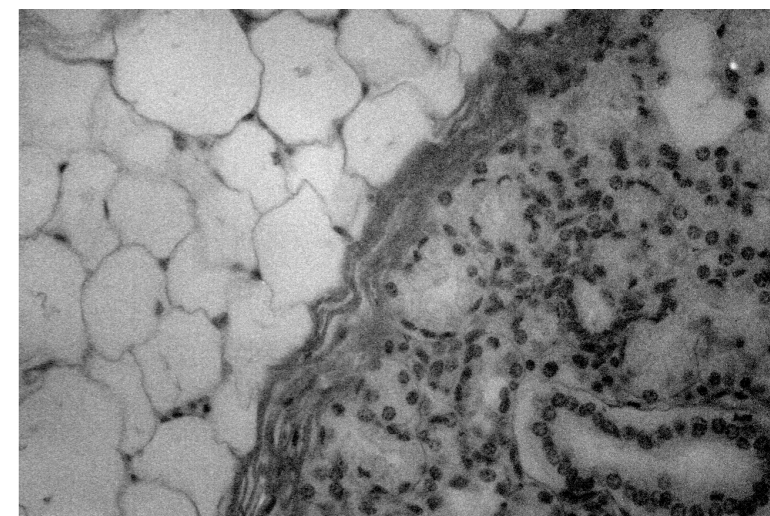
Applications

The Lambert sCMOS in combination with Capture offers a versatile and complete imaging solution for a wide range of applications, including:

- Biomedical imaging
- Scientific research
- Machine vision
- Industrial imaging
- Low-light imaging
- Microfluidics
- Spinning-disk confocal microscopy
- Light sheet microscopy



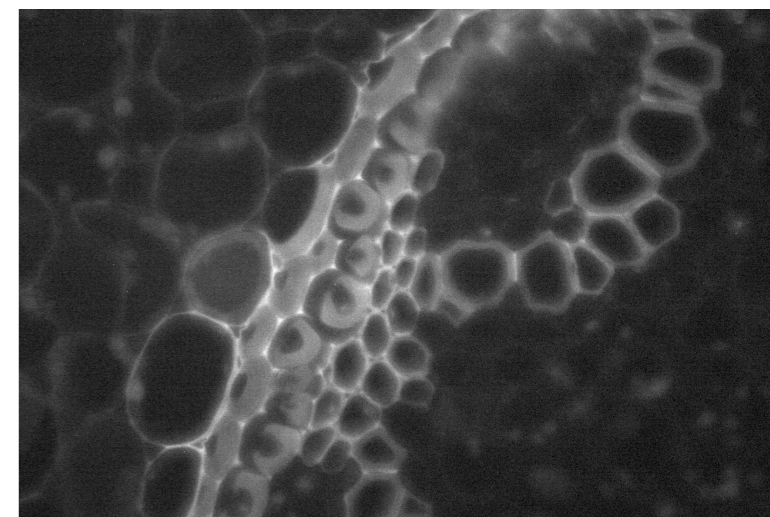
Helleborus



Fat tissue

Interfaces

The Lambert sCMOS and Capture are compatible with a variety of Camera Link framegrabbers and USB 3 interfaces.

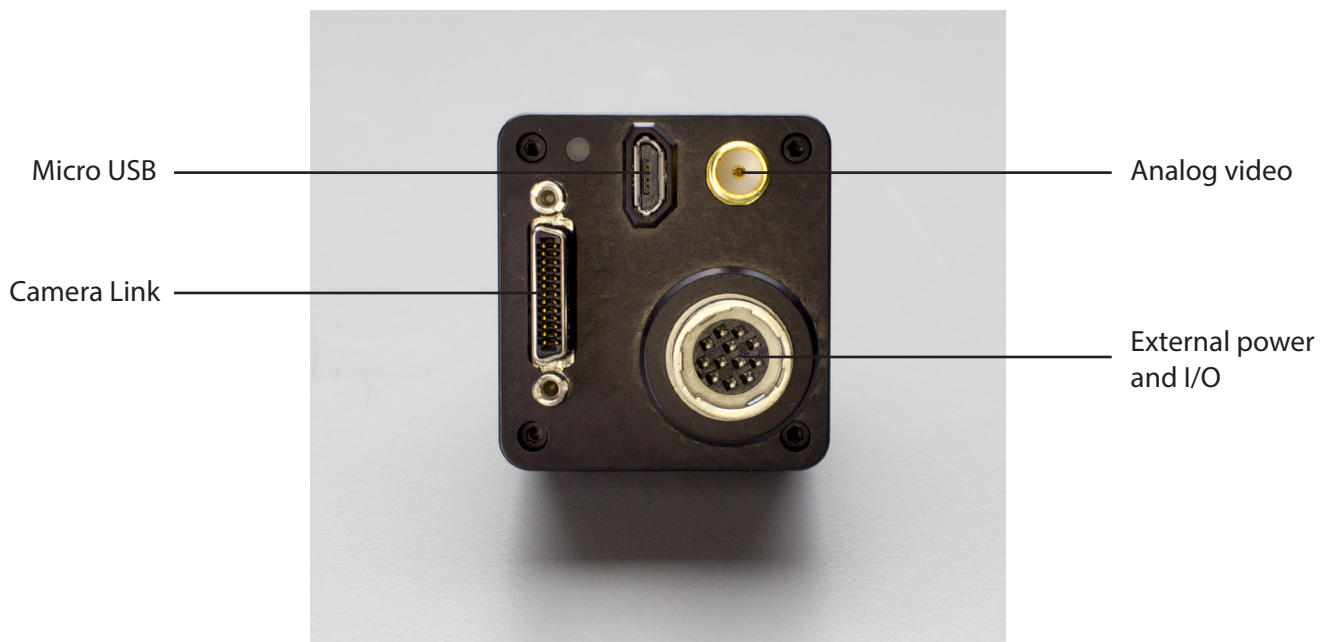


Convallaria

Specifications

Camera resolution	1280 x 1024 pixels
Sensor pixel size	9.7 um x 9.7 um
Sensor full-well capacity	> 25000 e-
Sensor dynamic range	> 60 dB
Frame rate	Up to 100 fps at full resolution
Sensor shutter mode	Rolling shutter
Read noise	< 4 e- med.
<hr/>	
Lens mount	CS
Interface	10/8 bit Base CameraLink compatible
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Operating temperature	-40°C to +60°C
Storage temperature	-50°C to +80°C

Specifications are subject to change without prior notice.



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