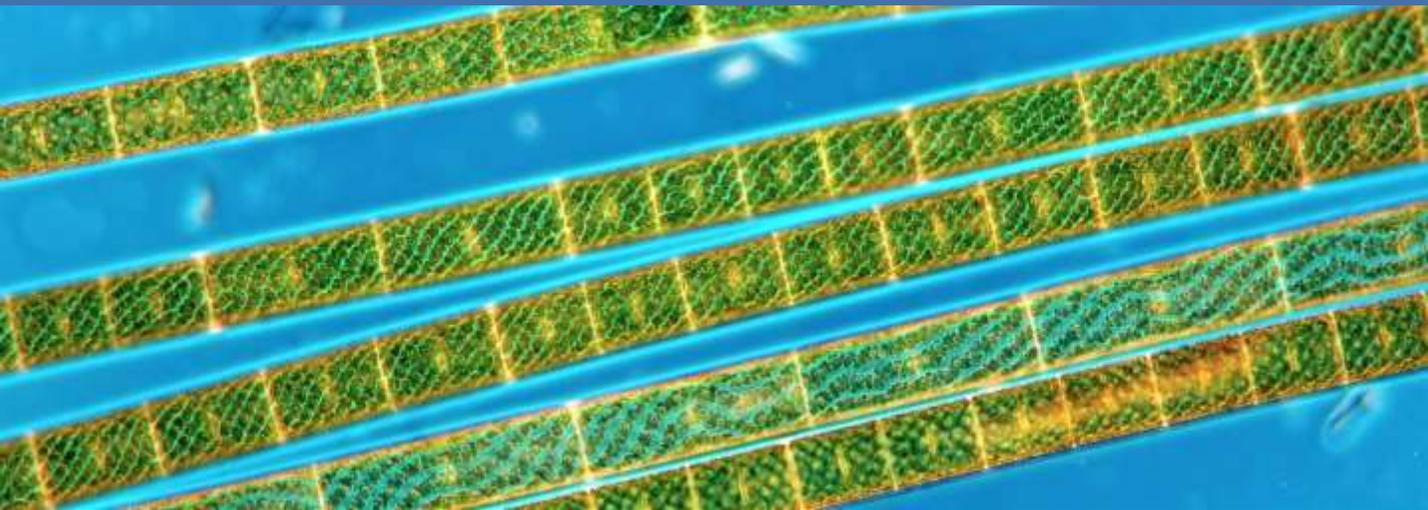




leidā TECHNOLOGIES

μLight Vision

Structured transmission light microscopy



Courtesy of Martin Gerhardt

μLight products are distributed by

ARDOP

LIGHTING

<https://lighting.ardop.com/>

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Just Click!



Structured illumination for transmission microscopy

The μ Light technology developed by leida Technologies makes it possible to obtain images that are impossible to observe with conventional optical microscopy. The simplicity of structuring the illumination of microscopic preparations in color and shape makes it ideal for routine use.

The μ Light technology



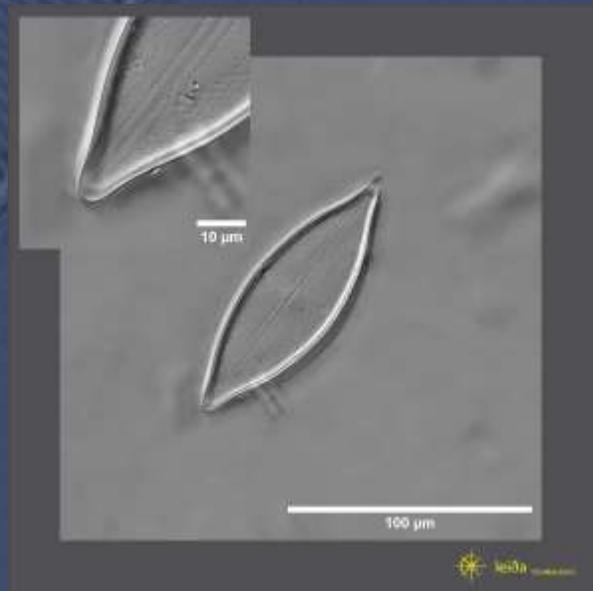
59 pixels μ Light Source

μ Light sources are made up of pixels, like those on a mobile phone screen.

Each pixel can be easily controlled in terms of intensity and color using μ Light Vision Software developed by leida Technologies, making it possible to form specific patterns to illuminate samples observed in transmission.

By defining specific patterns, it is possible to exploit optical properties and access information such as phase with high resolution.

μ Light Vision is the simplest way to exploit all the possibilities offered by transmission-structured illumination.



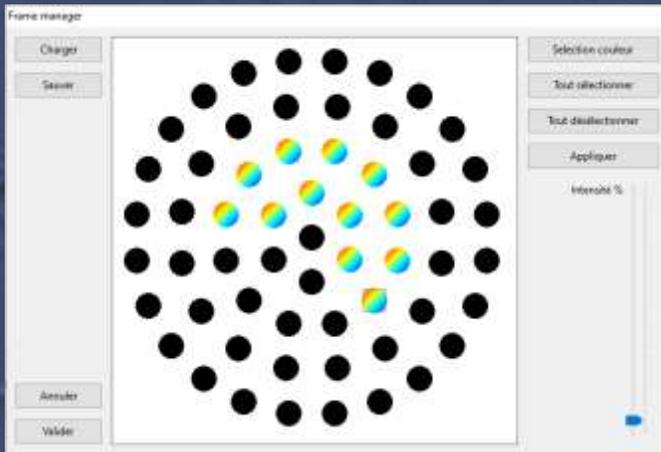
Courtesy of Martin Gerhardt

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μ Light Vision



μ Light Vision is a package comprising a μ Light LT2+ source, a digital camera and μ Light Vision software..



Illumination design window.

The software lets you define your own patterns using a highly intuitive graphical interface.

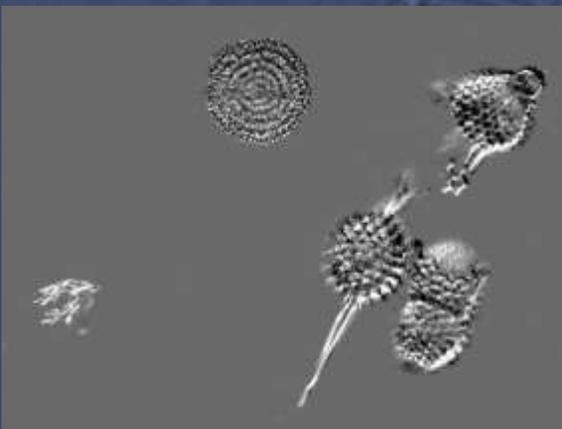
These patterns can be saved for reuse according to the nature of the observations.

A simple click illuminates the preparation with a user-defined pattern or with a pattern designed by leida Technologies.

The differential phase contrast is thus accessible in real time, thanks to an exclusive method developed by our team.



Epithelial cell observed in rt-DPC. 40 X bright field objective.



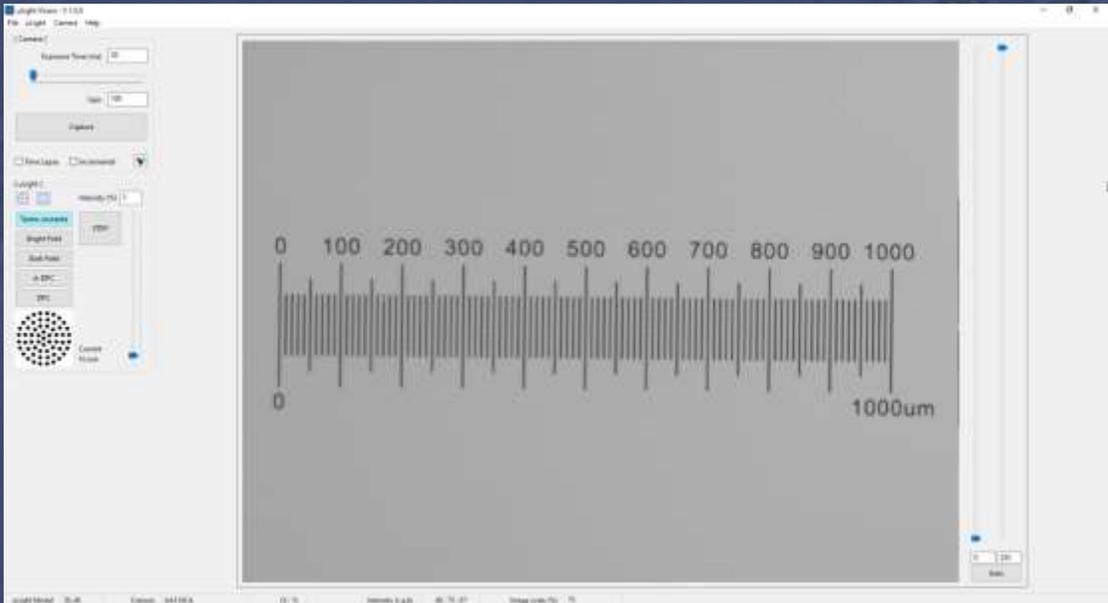
Radiolaria in rt-DPC. 40 X bright field objective.

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μ Light Vision Software



Simple, powerful, scalable software designed for maximum ease of use.



Main user interface.

Main functions:

Images capture:

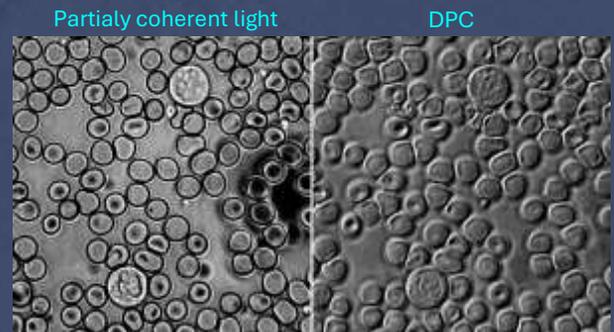
- simple recording
- Time Lapse
- incremental recording

Illumination:

- bright field
- dark field
- anomalous phase contrast (APC)
- differential phase contrast (4 sectors)
- real time differential phase contrast (rt-DPC)
- oblique illumination
- Rheinberg illumination

Experimental settings and parameters :

- change observation method with a single click
- settings (position and size of windows)
- conservation of observation conditions for each method
- dynamic zoom



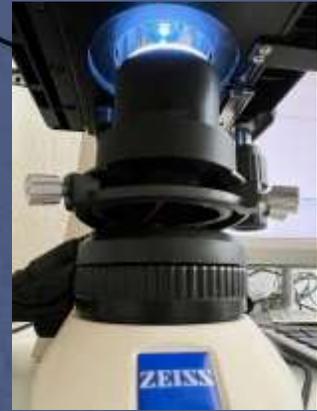
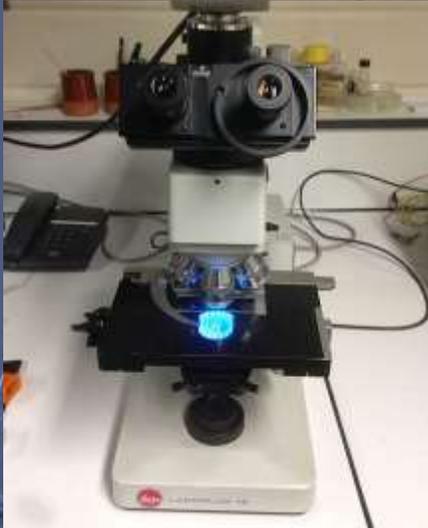
*Blood cells observed with partially coherent light and DPC
- 40 X bright field objective.*

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μ Light Vision



Light module compatible with many microscope models



Leica, Leitz, , Motic, Olympus, Nikon, Zeiss ...

Upright and inverted microscopes



Old and new microscopes

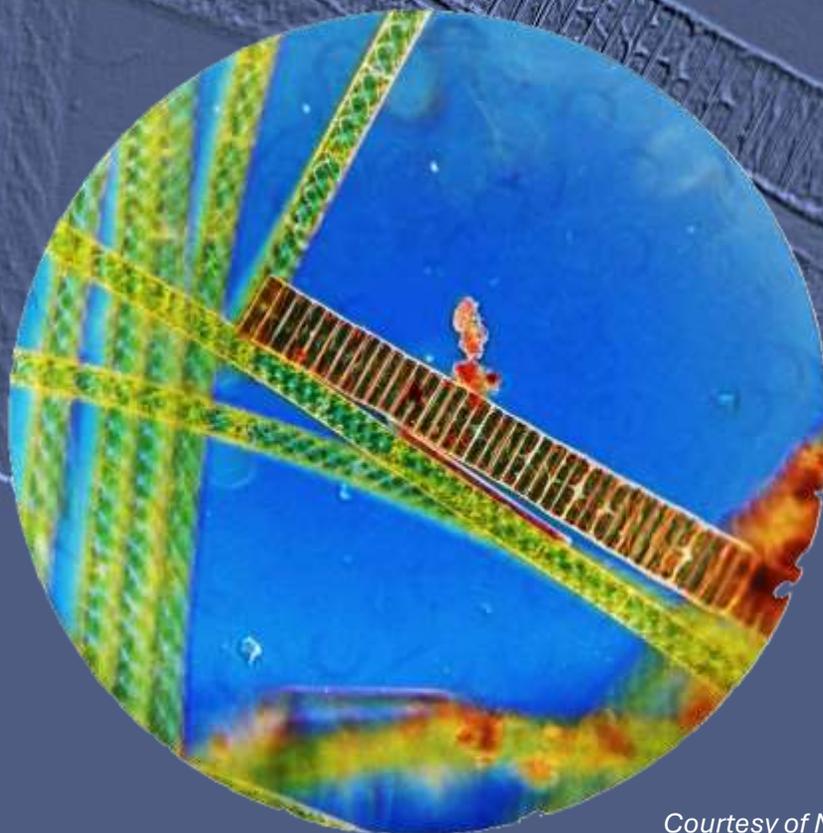
Just Click!



Composition of a μLight Vision kit

- μLight LT2+ 59-pixel RGB light module
- Power Supply Unit
- mechanical interface for adaptation to the microscope model
- μLight Vision Software
- digital camera selected from the leida Technologies catalog:

Model	Sensor size (mm)	Resolution (pixels)	Pixels Size (μm)	Sensor	QE (%)	Full well (ke)
4,2 Mp	7,9 x 4,5	2712 x 1538	2,9	Sony IMX 464	90	12
6,3 Mp	7,4 x 5,0	3096 x 2078	2,2	Sony IMX 178	80	15
8,3 Mp	11,2 x 6,3	3856 x 3008	2,9	Sony IMX 585	91	47
9,0 Mp	11,31 x 11,31	3856 x 3856	3,76	Sony IMX 533	80	73



Courtesy of Martin Gerhardt

Just Click!



Technical specifications

- The software works with a minimum computer configuration
 - Operating system : Windows 7, 10, 11
 - Hard disk space : 7 Mo
 - Memory capacity : 2 Go
- LT2+ physical characteristics
 - Weight : 90 g
 - Diameter : 49 mm
 - Height : 33 mm
- LT2+ electrical characteristics
 - Power Supply : 5 V (by external power supply unit)
 - Current : 1,3 A

About us

- leiðā Technologies is a company based in Chartreuse (Isère, France) that develops innovative solutions for microscopy.
- μ Light is a technology for transmission microscopy that enables illumination to be structured: by forming patterns controlled in color and intensity, μ Light exploits properties of optics that give access to different imaging techniques.

