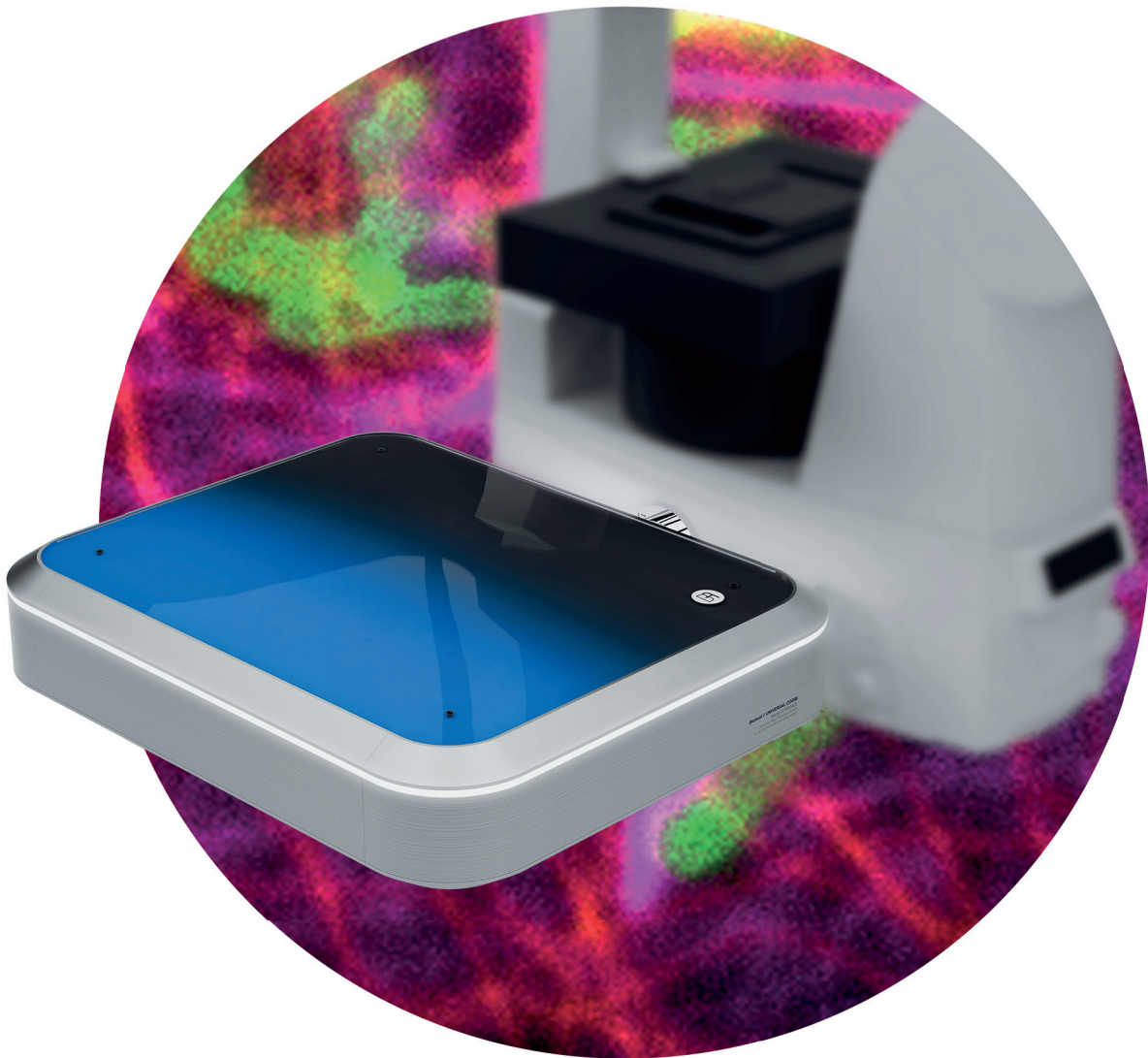


LiveCodim

Super-resolution for every researcher's desk



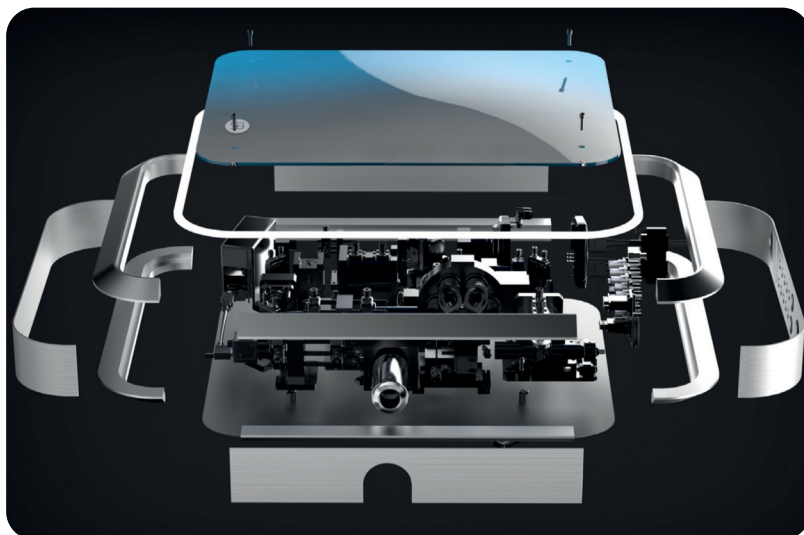
From conventional to super-resolution microscopy

LiveCodim is a universal, super-resolution imaging platform, designed to interface with any standard fluorescence microscope.

telight.eu | info@telight.eu



Specifications



Hardware

- ✓ **Dimensions and compatibility**
572 mm x 447 mm x 137 mm
Inverted Stand from Zeiss, Leica, Nikon and Olympus
Universal OME-TIFF File format
- ✓ **Camera**
Photometrics Kinetix
95% peak QE
1.2 electrons rms read noise at standard scan
- ✓ **LED Illumination**
CoolLED PE4000
(16 wavelengths from 365 nm to 770 nm)
- ✓ **Laser lines**
Violet 405 nm
Blue 488 nm
Green 561 nm
Red 640 nm

Imaging

- ✓ **Modalities**
Widefield with epifluorescence
Virtual pinhole confocal microscopy
Quantitative 5D live-imaging
Conical diffraction super-resolution microscopy (CODIM)
- ✓ **Software Features**
Automated adaptive SR image processing
Fast switching of acquisition mode (Widefield – Confocal – SR CODIM)
Guided calibration wizard
Intuitive user-friendly interface
- ✓ **Achievable resolution**
2D 120 nm (Rayleigh)
Confocal axial resolution
- ✓ **Field of view**
Confocal mode: 80 × 80 µm without stitching
SR CODIM mode: 50 × 50 µm without stitching
- ✓ **Imaging Colors**
4 laser line in standard (extra line up to request)
- ✓ **Samples**
Standard sample preparation workflow

Conditions

- ✓ **Objective requirements (for maximum resolution)**
60/63 × 1.4 (or more) NA (oil immersion)
– provided upon request
- ✓ **Microscope Stand requirement**
Right or Left Port C-Mount Compatible Inverted Stand From Zeiss, Leica, Nikon or Olympus
Back-Port for LED Illumination
Automated XYZ Stage
Recommended: Hardware autofocus system (Zeiss DF, Nikon PF, Leica AFC, Olympus IMS)
Automated Filter cube Turret
- ✓ **Optical Table**



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