

# Specifications

# Telight LiveCodim



## Imaging

### ✔ Modalities

Conical Diffraction SuperResolution microscopy  
Widefield epifluorescence  
Quantitative 5D Live-Imaging

### ✔ 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 120nm (Rayleigh)  
Confocal axial resolution

### ✔ Field of view

SR CODIM mode: 30 × 30 μm  
Confocal mode: 30 × 30 μm without stitching,  
60 × 60 μm with stitching

### ✔ Imaging Colors

4 laser line in standard (extra line up to request)

### ✔ Samples

Standard sample preparation workflow

## Hardware

### ✔ Dimensions and compatibility

57mm × 47mm × 145mm  
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 365nm to 770 nm)

### ✔ Laser lines

Violet 405nm Diode Laser (100mW)  
Blue 488nm Diode Laser (100mW)  
Green 561 Laser (100mW)  
Red 640nm Diode Laser (100mW)

## Conditions

### ✔ Objective requirements (for maximum resolution)

60/63x 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