

# Laser Confocal Microscope

LEXT 4100

## Principle

Anastigmatic detection of the sample in x-y direction and step by step in z direction, only detection of the in-focus light

<b>Manufacturer</b>	Olympus
<b>Wavelength Laser</b>	408 nm
<b>Light Source White</b>	LED
<b>Magnification Range</b>	50 - 2000x (max. 5000x)
<b>Lenses</b>	5x, 10x, 20x, 50x, 100x, 100x long distance
<b>Optical Zoom</b>	1x - 8x
<b>Contrasting Technique</b>	Brightfield Darkfield DIC (Nomarski-contrast)
<b>Resolution z-Direction</b>	0.01 $\mu\text{m}$
<b>Resolution x-, y-Direction</b>	0.12 $\mu\text{m}$
<b>Typical Tasks</b>	Roughness measurement non-contact, 3D measurement, measurement of multiple layers of transparent material <u>images</u> laser microscope image true-color optical microscope image height map