

Microscope Peripherals

Piezo - microscope objective NanoPositioner focus system

High accuracy and universal usage, for nearly all types of microscopes

Microscope objective NanoPositioners are fast and compact drive units which can be mounted on most microscopes. The unit are screwed between the turret and the objective, providing a positioning of of 80, 100, 200 and 500 μ m with a resolution of about >10 nm.

New application e.g. 3D analysis of structures and cells or autofocus for time lapse experiments open a new dimension with standard microscopes. The control are supported by the Visitron Imaging Software. We are supporting the following usage:

- automatic focus detection
- acquisition of Z-axis stacks for 3D reconstruction and deconvolution
- high precision positioning through objects with high reproduction resolution (about 10nm)
- integrated into the 6D multi-dimensional acquisition Software
- The system are calibrated delivered

Specification:

- working distance from 80 to 500 μ m
- resolution 10nm with positional sensor close loop
- external control by DAC analog voltage
- for all types of microscopes
- control unit with digital display of position

