



## MultiFocus



Before



After

### Brief Description

The *ImageAccess Module MultiFocus* allows the calculation of an image with optimal depth of field from a series of images acquired from adjacent focal planes.

This is useful for both microscopic and macroscopic images in which the depth of field of the subject exceeds the depth of field of the optics used. By recording a series of images which show the image sharply on different focal planes, one composite image can be produced which contains only the sharp areas of the individual images.

### Operating Modes

- Automatic creation of a composite image from several images taken directly from the image source
- Creation of a composite image from a number of individual archived images.

### Process Control

In both operating modes, two or more images are used from adjacent focal planes in order to extract the sharpest areas for the creation of the best possible composite image.

The composite image is updated and displayed as soon as a new image is captured. This allows using the next image to focus on a detail that previously was not clearly focused, and to add that section to the composite image. Once the last image has been sampled, the composite image can be added to the archive using Autosave, an image processing macro, or interactive mode with manual file naming.

### Automatic Image Correction

In the course of image capture using several focal planes, not only the sharpness can change, but the position or scale can vary. Even minor modifications can create artifacts on the composite image.

Automatic image correction compensates for differences in size, position and orientation. The result is a perfect calculation of depth of field.

### Motorized Microscopes

The module *MultiFocus Motorized* supports image series acquisition using motorised microscopes or Piezo-electric devices (Pifoc).

### Key Features

- Creation of a composite image with expanded depth of field
- Continuous update of the composite image
- Automatic compensation for variations in position, size and orientation within image series

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## Ordering Information

Article No.	Description
1.00.510.00	<b>MultiFocus</b> , creation of a composite image with sharpness over entire image
1.00.512.00	<b>MultiFocus Motorized</b> , creation of a composite image with sharpness over entire image, support for motorized Z-devices.