

Motorised microscope focus

Automatic focus control of microscopes combined with automatic capture of extended focus and extended exposure.



Features:

- Easy attachment to most microscopes of any brand with "fine focus" knob.
- Focus of the microscope can be controlled directly from the computer.
- Connects to USB. No need to add extra boards inside the computer
- Captures stunningly ultra high quality images with extended focus and extended exposure with just a few mouse clicks.
- Includes all necessary components to start automatic capture of extended focus and extended exposure images (excluding camera and microscope).
- Can be combined with all types of DeltaPix cameras.

Specification

Includes:

- Märzhäuser MA-42 with universal attachment for 3, 4, 5 mm shaft and friction wheel.
- DeltaPix USB Stepper motor controller USBC1, preconfigured for MA-42
- DPXView PRO AZ software w. dongle protection
- Power supply
- All necessary cables
- Carrying case (optional)
- Manual

Power supply 100-240V AC /12V 1A

Solve problems with limited depth of focus, reflections and overexposed areas.

With the automated EE EF FF package, problems with limited depth of focus, reflections and overexposed areas can be solved in an easy and affordable way. After a simple setup, the system can automatically capture a number of images at different focus points and with different exposure settings. The software automatically combines the captured images to one image with extended focus depth and perfect exposure in all areas of the image.

Easy to attach

The system consists basically of a focus motor, a motor controller and the software that controls it. The focus motor has a universal attachment, that makes it fit most microscopes with a "fine focus" knob. The focus motor is attached to the knob and the base of the microscope in a few minutes. The motor is connected to the motor controller, a small box at the size of camera. The motor controller is connected to the computer by a single USB-cable, and has an external power supply.

Easy to install and control

After the simple plug and play installation of the soft- and hardware, the focus of the microscope can be controlled by the computer. This can be done by pressing up/down buttons with the mouse, using the mouse wheel or even attaching foot pedals.

Easy to operate

Capturing images with extended focus and extended exposure is easy with this system: find the focus of the top and bottom of the object under observation and mark these two points in the software. Select the number of slices in between these points, and press the capture button. A number of images is then automatically captured at different focus points, and afterwards combined to an image where all areas of the object are in focus.

If it is not possible to achieve correct exposure in all areas of the object under observation, due to reflections or very dark or shiny parts, the software can also deal with that. By capturing images at different exposure levels, the software automatically combines these images to form one image with perfect exposure level in all areas.

Affordable

The total cost of the motorisation, camera and software is very competitive compared to any similar system. The attractive pricing makes the automatic capture of extended focus images and direct control of the microscope focus, within the range of many applications where previously only manual control was possible.

Minimum Computer Requirements

Pentium 4
512 MBytes of RAM
10Gbyte free HD-space
2x USB2 ports
Windows XP
note:do not use computers with shared graphics memory!