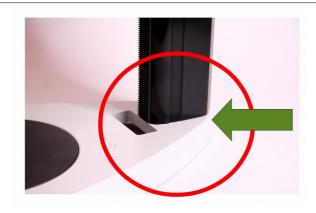
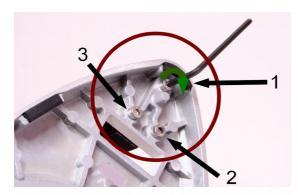
Operating Instruction LM DSLR Photomicroscope





Depending on the microscope configuration and shipping country, the LM Photomicroscope is delivered with attached base plate or separated base plate. If the base plate is not attached, please follow the instruction:

Before working with LM Photomicroscope, please attach the base plate to the stand. Simply screw the base plate to the column with the three Allen screws on the under side of the plate.



Depending on the camera, the LM Photomicroscope is fitted with the appropriate bayonet adapter. If a camera brand change is planned at a later point of time, the bayonet adapter can easily be purchased as accessory.



Now attach the microscope to your camera using the bayonet mount. Make sure that the tip of the bayonet thread is exactly on the tip of the camera thread before turning clockwise. With some camera models it is necessary to hold down the button for releasing the camera thread.



If needed, the camera can be turned to another position with the three small screws of the T2-ring.



Approach the lens' front to the specimen by considering the working distance.

With rack and pinion the lens unit can be lifted and lowered. The image can be focused as with microscopes.



If needed, the lens-unit's position can be changed.

When changing the tubes, the two Allen screws have to be loosened or fastened.



Adjusting the LED spots:

Illumination has a great influence on image quality. If needed, the LED spot can be adjusted. Depending on the irradiation angle, different illumination effects can be achieved.



As an option we also provide a LED-ring.

When using lenses with low magnification and larger working distances, the LED ring is a useful illumination option.



Switch the camera on and, if possible, use the automatic control program (Av/A). If that is not possible, use the "automatic aperture control" setting. If these both options do not work, you can also work in "M" (manual) mode. We recommend to extend the power saving mode on your camera, otherwise the camera will constantly switch itself off.



Normally the lens head is in the correct position. If needed, the position can be adjusted by simply loosening the Allen screws.

When changing the lens head, the Allen screw has to be loosened first, to release the fixation.



Changing the lens:

The LM Photomicroscope can be used with different lenses. First remove the Allen screw on the rear, to loosen the fixation. Now the lens can be removed.

In order to disassemble the entire lens-unit, unscrew the big thread with the knurled surface anti-clockwise.

The new lens can be assembled by screwing clockwise.

Now the focus has to be set anew, as the working distance has been changed.



With some cameras, a shutter release is only possible with the lens being in place. If this is the case with your camera, select the "release without lens" point in the setup menu (wording varies depending on manufacturer).



Using the viewfinder or the right angle viewfinder, focus the microscope image by microscope means of the focusing mechanism. Digital cameras with Live View and magnifying function (7x/10x/14x) are ideal for precise focusing. A magnification function is advantageous, as the camera display does not have the same resolution as the sensor. Not all camera models have a magnification function. If your camera has one, switch it on. It is also worthwile using an external HD monitor, which is ideally connected to the camera via an HDMI connection.



Blurred images are mostly caused by releasing the shutter manually. This leads to vibrations, which are picked up as motion blurs in the images. To avoid motion blurs, we recommend to use a remote control release. Otherwise it is also possible to use the digital camera's self-timer function. Using a remote control system is also ideal (controlled from PC); unfortunately, this is not supported by every camera.

If your camera has one, please activate the mirror lock-up.

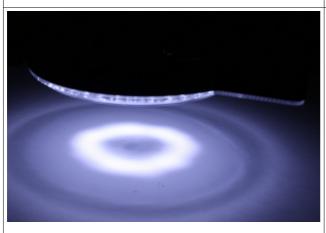


LM Photomicroscope can also be used with stands from other manufacturers with the help of the tripod socket.



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The base plate's background colour can be switched from black to white by simply turning the plate.

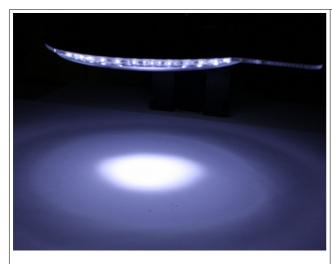


LED-ringlight:

The goal is a uniform and homogeneous illumination with correct working distance and sharp image on the display.

If the distance is to big or to short, a black shading can be seen in the images' center.

By loosening the three knurled screws, the LED ring can be moved, so that the distance to the specimen can be increased.



If the LED ring is ideally adjusted, the image field is very evenly illuminated.

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