

# FLUORESCENT ATTACHMENT

# MAA-03/B

## for dissecting microscopes



The MAA-03 universal light source for fluorescent stereo microscopy is a smart and economical solution for existing low and mid range stereo microscopes. It allows efficient and easy visualization of fluorescent objects. Fluorescence can be obtained by fluorescent proteins, such as Cyan, Green, Yellow and Red Fluorescent Proteins, or fluorescent dyes. The excitation light is attached to the outside of the objective, therefore no structural modification of the microscope is required.

Excitation light source: ultra bright blue light emitting diodes (LEDs)  
Number of light sources: varies from instrument to instrument. It is indicated in the model descriptions.

Working distance 25 mm

**A.** If you provided the requested dimensions of your stereo microscope and distance adapter ring was needed, first join this ring with the light source at its upper part and fix it with the three screws (1). Place the objective dimension adapter ring into its case at the upper part of the distance adapter ring (or the light source directly if no distance adaptor was needed). Then you can easily attach the MAA-03/B light source to the objective by using the three attachment screws (1).

**B.** Connect the 6 V power supply to the light source, which can be turned on by the small switch (2) positioned right above the power connector (3).

**C.** Then focus the microscope on an evenly colored bright surface using medium magnification.

**D.** Turn the rotary filter holder (4) to the position of "no filter" or two white dots and focus the blue excitation light by turning the focusing disc (5) The light intensity should be strongest in the middle of the light spot.

**E.** Turn the rotary filter holder (4) to the required position and observe the fluorescence.





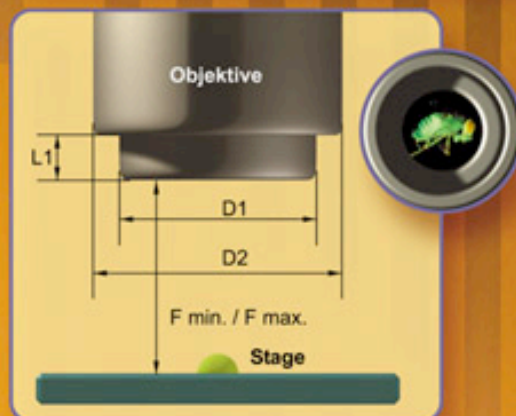
# INSTALLATION ACCESSORIES for **MAA-03/B**



Height adapter tubes



Spacer rings



## Provide F max. and F min. dimensions

The following data should be provided for the production of a special adapter.

1. Microscope manufacturer:
2. Microscope model:
3. Objective model:
4. D1: objective diameter (mm)
5. D2: tube diameter (mm)
6. L1: objective frame length (mm)
7. F max.: length of focus at minimum magnification (mm)
8. F min.: length of focus at maximum magnification (mm)

accuracy of one decimal in millimeters is requested

Position/mark on the filter holder	Emission filters for	Band width wavelength (nm)
Green-Green dots	GFP	500-515
Green-Yellow dots	GFP&YFP	500-550
Yellow-Yellow dots	YFP	515-550



Special key for change of filter will

Power supply output:  
6V D. C. 1,5A 3W  
electronically stabilized.



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