

MA314309 Fiber Optic Illuminator

Instruction Manual



Please read the User Manual before using the illuminator.

The heavy-duty, all metal constructed fiber optic illuminator provides uniform illumination of focused white light, and is ideal for microscopic inspection. Through our annular ring light or a dual pipe light guide, this light may be transmitted from the illuminator onto the specimen. This feature increases the lamp life by reducing the initial current surge when the illuminator is turned on. As an added feature, the illuminator may be placed on its back feed to provide better accommodation of space for the instrument

Specifications



Power supply:	AC 110V 60 Hz or 240V 50Hz
Power consumption:	450W
Fuse:	3A
Startup time:	50ms (Full Load)
Efficiency:	65%
Operating temperature:	0~45℃
Storage temperature:	-25~85℃
Relative humidity:	85%
Illumination:	≥100000 Lux
Color temperature:	≥3200K
Spectrum range:	450-700nm
Dimensions(LxWxH):	12.71"×10.79"×6.4.84" (323×274×123mm)
Lamp:	12V 100W /24V 150W /24V 250W halogen reflector bulb
Service life of lamp:	Approx. 200 hours at full load

Operating Instructions

Open the package and cautiously take out the illuminator of the halogen lighting and its power supply wires. The illuminator provides two voltage inputs of 110V and 220V for your choice, and please choose a proper one according to the voltage of your area. Indicated as in Figure 1.

The illuminator should be placed on an even table or bracket to ensure its stability in working status, and the power supply should be correctly connected with the power supply socket in the rear of the illuminator to ensure absolute safety.



<p>Insert the fiber fitting into the light-guiding socket and fasten it with three screws to ensure that the fitting is in the middle of the socket.</p>	 <p>The image shows the front panel of the Fiber Optic Illuminator. It features two circular light-guiding sockets on the left, each with three screws. To the right of the sockets is a power switch (labeled 'POWER'), a choice switch (labeled 'CHOICE'), and an adjuster knob (labeled 'ADJUSTER'). Arrows point to the sockets with the label 'Light-guiding socket'.</p>
<p>Make sure to turn the light-adjusting knob anticlockwise to the original position before the power supply is turned on. After the power supply is turned on, the bulb would be slightly light, and turn the knob clockwise to increase the illumination intensity to the maximum extent. Press the switch pushbutton, the other light-guiding socket will work.</p>	 <p>The image shows the Fiber Optic Illuminator unit from a three-quarter perspective. The left light socket is illuminated, and the right one is not. The power and choice switches are visible on the front panel.</p>

Fuse Replacement Instructions

Open the barrel-shaped rear cover of fuse with a screwdriver and replace the fuse with a new one of the designated model. Indicated as in the right figure.



Care

- Keep the working temperature of the illuminator between -5°C and 45°C.
- Keep the maximum relative humidity as 85%.
- Please shut off the power supply after the operation to keep the illuminator clean and dry. Please wash the hardware with mild detergents.
- Please keep the distance between the fan vent and its nearest shelter higher than 15CM to ensure regular cooling-down after the power supply is turned on.
- Please turn off the machine and shut off the power supply for cooling-down before any operations for replacement of bulbs and fuses.

Note: Never disassemble the power supply for whatever reasons to prevent wrong operations or unnecessary damages against it. In case of irregular operations or halt of fans when the illuminator is in operation, the user should stop using the power supply immediately, check the fan wires and the fan itself to remove the failure before further operations.