

# Fiber Optic Illuminator Instruction Manual



Please read the Instruction Manual carefully before installation and keep it for future use.

**【Assembly Instructions】**

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

The Fiber Optic Illuminator is fully assembled and packaged in a foam container for maximum protection. To unpack the illuminator, pull out the unit by the top handle and p

lace it on a stable desk or table next to the microscope stand. Then remove the fiber optic light guide (either the annular ring light or double pipe light) from its packaging and insert the connecting end into the front-mounted port on the illuminator. Secure the light guide (ring or pipe) by tightening the two (2) screws on the port. If using the polarizer with the annular ring light, loosen the three screws on the ring and place the small polarizing lens into the ring (see photo). Then screw the donut-shaped polarizing lens onto the bottom of the ring. Attach the ring light with the polarizer onto the auxiliary lens on the bottom of the microscope head or zoom lens. Secure by tightening all three screws on the ring to the auxiliary lens.

**【Specifications】**

Power supply	AC 120V 60 Hz or 240V 50Hz
Lamp type	150W Halogen / 21V EKE
Fuse	2A Dia. 5×20mm(L)
Startup time	50ms (Full Load)
Efficiency	65% (Full load)
Operating temperature	0°C~45°C (32°F~113°F)
Storage temperature	-25~85°C (-13°F~185°F)
Max. relative humidity	85%
Illumination	≥100000 Lux
Color temperature	3000K
Service life of lamp	Approx. 200 hours at full load
Dimensions	7.48" ×7.09"×6.30"(190mm×180mm×160mm)
Weight	4.25Kg (9.37 lbs.)

**【Operating Instructions】**

To use the illuminator, turn the intensity control knob on and slowly adjust the amount of light on the specimen while looking in the eyepieces or on the monitor. If using the polarizer on the annular ring light, you may adjust the glare by slowly turning the bottom ring until the amount of light is suitable. If using the double-pipe light, you may adjust the position of the light guides until the amount of light is suitable.



**【Bulb Replacement Instructions】**

The halogen lamp in the illuminator may be replaced easily and no tools are required. First you must unplug the power supply of the illuminator and leave the unit cool down. Then make the illuminator stand on its back feed and loosen the screw on the access door located on the bottom of the unit. Carefully remove the bulb from its lamp socket frame by lifting the bulb from the bottom, and keep it up with your finger. Once it is out of the frame, simply replace it with a new halogen lamp.

**【Care】**

**Always:**

Use the following environment for best results:

- Indoor temperature: 0°C-40°C (32°F~104°F)
- Maximum relative humidity: 85%

Turn off illuminator after every use. Keep the illuminator clean and dry. Clean the hardware with a mild cleaning detergent.

**Never:**

Disassemble the illuminator or fiber optics for any reason. Mishandle or impose unnecessary force or shock on the illuminator or light guides.