

Thank you for purchasing your ScienScope System. The following warranty, terms and conditions apply:

All ScienScope instruments are warranted against manufacturer's defects in material and workmanship for five (5) years from the original purchase date with the following exceptions:

The fiber optic illuminator, or any other electrical component, is warranted for one (1) year. Lamps or bulbs are not warranted.

Damage resulting from repair by unauthorized parties or damage due to accident, alteration, misuse, or abuse is not covered. Warranty service is provided by ScienScope, or its authorized dealer. Defective products covered by the warranty will be repaired free of charge when they are returned, postpaid, to ScienScope International, or to the authorized dealer in your area.

PLEASE NEVER TRY TO FIX OR OPEN THE MICROSCOPE YOURSELF!



ScienScope International, U.S.A.

5751 Schaefer Avenue, Chino, CA 91710

Phone: (909) 590-7273

Fax: (909) 590-7020

Visit us at our website!

<http://www.scienscope.com>



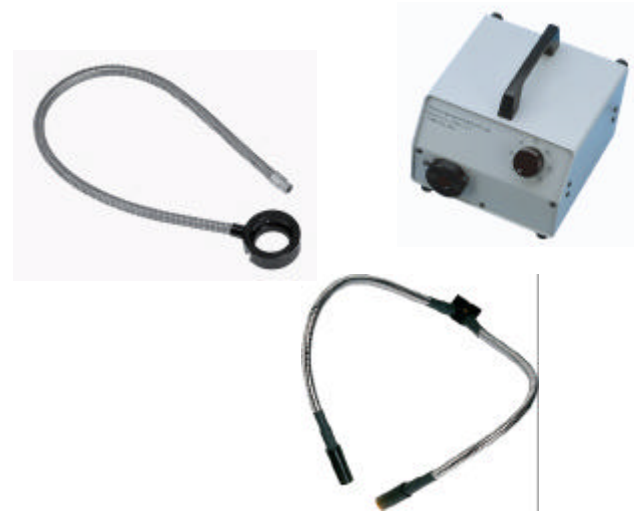
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SCIENS SCOPE INTERNATIONAL

OWNER'S MANUAL

FOR

**FIBER OPTIC
ILLUMINATORS**



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 double-pipe light guide, this light may be transmitted from the illuminator onto the specimen. The light intensity may be adjusted with the on-off intensity control knob. 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 feet to provide better accommodation of space for the instruments.

ASSEMBLY INSTRUCTIONS:

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

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 illuminator cord from the power outlet and let the unit cool. Then stand the illuminator on its back feet 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, up with your finger. Once it is out of the frame simply replace with a new halogen lamp.

CARE:

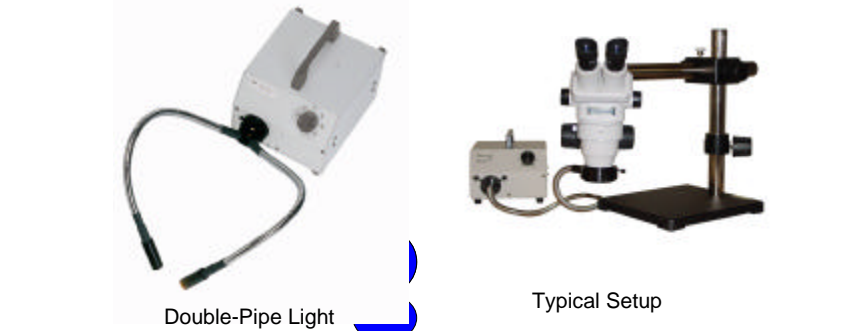
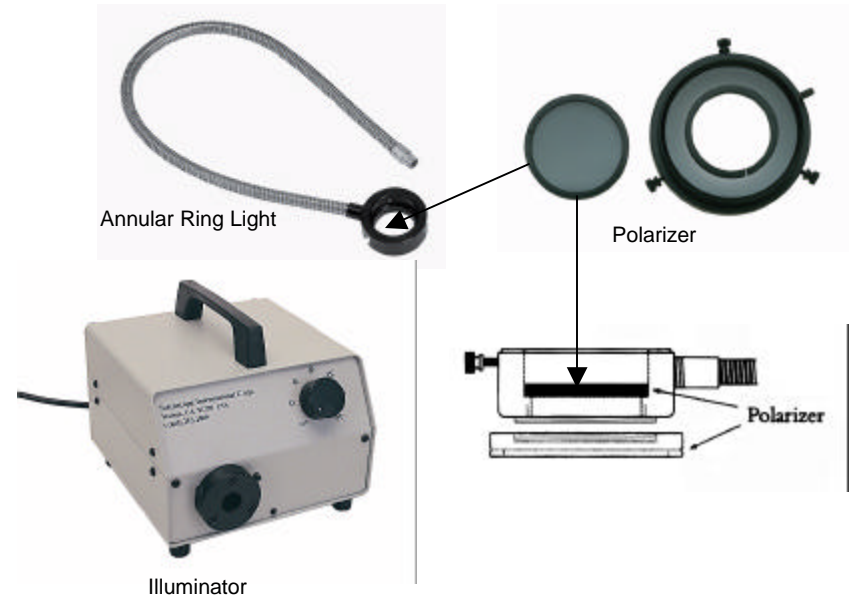
Always:

Use the following environment for best results: Indoor temperature: 0°C - 40°C
Maximum relative humidity: 85%.

Turn illuminator off after every use. Keep the illuminator clean and dry. Apply a soft cleaning lotion to clean the hardware.

Never:

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



ILLUMINATOR SPECIFICATIONS:

Main Power:	120VAC 60Hz
Lamp Type:	150W Halogen/21V EKE
Avg. Lamp Life:	200 hours minimum
Output Port:	5/8" Inner Diameter
Max. Temp:	3200°K lamp color temp.
Dimensions:	7.5" L x 7" W x 6.5" H
Weight:	9.5lbs.
Fuse:	2 amperes
Replace Lamp:	Part #IL-RA-FB