

Introduction

Thank you for choosing the MikeLite 700 light source. The MikeLite uses the latest solid state technology and will give you years of trouble-free use if cared for properly.

Unlike incandescent and halogen light bulbs, our Type-L LEDs have a rated life of 50,000 hours and usually do not need replacing for the life of the unit. And because the highly flexible goosenecks permits precise light placement, you will experience viewing resolution unobtainable with other light sources.

The MikeLite 700 uses Type-L3 illuminators only.

SPECIFICATIONS

MODEL NO.	ML-700
Weight	14.9oz. (438g)
Dimensions	Length 4.4" (112mm) Width 3.3" (83mm) Height 1.7" (42mm)
Output Jack Type	Female, RCA
Output Current	700mA max. per jack
Number of Output Jacks	2
Type of Illuminator supported	Type-L3 only
Switch Types	Rheostat/on-off switch
Power Source	AC wall transformer with 12 volt 1000mA DC output and 6' power cord
Environmental	Ambient temperature: 32-95 degrees F.
Relative humidity	0-90% non-condensing

INSTRUCTIONS

CAUTION: NEVER LOOK DIRECTLY INTO THE ILLUMINATORS WHEN THE ML-700 IS IN OPERATION. (MAY CAUSE EYE DAMAGE).

1. Plug the wall transformer into any 115 volt power outlet and plug the 12 volt transformer cord into the jack on the back of the control unit.
2. Plug one or two Type-L3 illuminators into the RCA jacks on the top of the control unit. See "Installing Goosenecks" below.
3. Turn the rheostat knob to the right to turn on the unit and to set the desired intensity. There are no user-serviceable parts in the ML-700.
4. To turn off the unit, turn the rheostat knob to the left..
5. The MikeLite 700 uses Type-L3 illuminators only.

MikeLite Placement

The MikeLite 700 can be placed either in back of the microscope if counter space is at a premium or alongside the scope for easy access to the controls.

Behind the scope: Two 12" (W12-L1) illuminators work best for this application.

Alongside the scope: One 12" (W12-L1) and one 18" (W18-L1) illuminator work best for this application.

B & L and Leitz Stereo Microscopes: For these scopes an adapter plug (Cat. No. BL-10) and two 24" (W24-L1) Illuminators provide optimal lighting.

Installing the Goosenecks

To insert the gooseneck into the MikeLite power source, push firmly while twisting the illuminator into the RCA receptacle on top of the unit. When properly seated, only a sliver of shiny metal should be visible above the black grommet surrounding the RCA receptacle hole.

Positioning the Illuminator

When positioning the gooseneck it is advisable to hold the RCA plug firmly at the base where it enters the control unit to prevent bending the three metal prongs on the RCA plug. If the prongs do become bent they can be easily crimped back into place with a pair of pliers without damage to the plug. Bending will occur if the goosenecks are bent repeatedly without supporting the plug as recommended above. To protect from bending the RCA plug, make sure the plug is fully inserted into the RCA receptacle.

Light Intensity

The LED lamp produces heat which is dissipated by the black aluminum housing holding the LED and lens. The intensity of light produced by the LED is inversely proportional to the temperature of the housing. If optimal light intensity is desired, blowing a gentle stream of air across the housing can increase light output by as much as 20%. For optimal light production, the housing should be cool enough to be comfortably held in one's hand.

Maintenance of MikeLite and Type-L3 Illuminators

The ML-700 is splash-resistant when two illuminators are attached to the control unit. When only one illuminator is attached, water can run down the RCA receptacle and damage the printed circuit board below. Placing a piece of tape across the receptacle hole will prevent this from happening.

Type-L3 illuminators are splash-resistant. If accidentally immersed in water, unscrew the lens retention ring, remove the lens and dry off all parts. **DO NOT TOUCH THE LED OR ATTACHING WIRES** or damage to the LED may occur. If immersed in saltwater, rinse off the retention ring and threads on the housing with tap or distilled water. Let parts air dry and reassemble.

Warranty

Sea Life Supply warrants its products for parts and labor for a period of one year from the date of shipment. This covers normal use of the equipment only. Any use other than that intended, misuse, abuse, or customer modification will void this warranty.

Sea Life Supply, at its option, will repair or replace equipment failed because of defects in either workmanship or parts. Shipping to and from the factory will be at the customer's expense. Under no circumstances will Sea Life Supply be responsible for any incidental damage or expense resulting from the use of the equipment covered by this warranty.

Specific Exclusions

The following events specifically void the warranty.

1. Immersion in water
2. Operation in relative humidity above 90%
3. Damage to the circuit board due to condensation
4. Service by unauthorized persons

MikeLite 700 Manual



(Shown with Type-L Illuminators)



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