Specifications

The UV Photometer III (BPI#109514) is an invaluable aid for quality control of lenses treated for UV absorption. The accompanying brochures educate your customer as to the harmful effects of UV light. Variations in density and hardness of CR-39™ lenses typically affect the ability to accept dye. Two lenses that have been in the same dye tank the same amount of time may not come out with equal UV protection. IT IS THE LENS PROCESSOR’S RESPONSIBILITY TO VERIFY UV PROTECTION and a meter such as this photometer is a quantitative means of testing.

The meter's digital display indicates the percentage of ultraviolet light (in the band from 320 to 400 nm) passing through a lens. It is a quick and accurate way to check the transmission characteristics of UV-treated lenses.

The system requires 115 volt (220 volt BPI#209514), 50/60 Hz and is fuse protected by a 1 amp, 250 volt glass fuse.

Setting Up

To set up your UV Photometer III™, just connect it to the power pack and plug into a standard outlet convenient to your work area but away from the immediate vicinity of the lens coloring operation. Although BPI's Photometers are stable and sturdy, they may be adversely affected by excessive humidity and heat. Your Photometer arrived with a lens taped to the back of the unit. This lens has been treated with BPI's Ultraviolet Diamond Dye™ 400 nm. Be sure to remove this lens before beginning operation.

Operation

- The Photometer has an ON/OFF switch and a CALIBRATE knob. Turn the unit ON. Since the light source may drift in intensity and color after it is first turned on, it is best to wait 15-20 minutes before taking critical readings.

- Be sure that the photocell is not obstructed; calibration is done without any lenses in place. Calibrate by turning the knob until the liquid crystal display shows a reading of 100. The UV Photometer III™ is now calibrated for 100% UV light transmission.

- Place the lens to be tested over the photocell. The unit will then display the percentage of UV transmission.

NOTE: For the most accurate results, the calibration procedure should be performed just before a transmission measurement.

Replacement Parts

1 Amp, 250 Volt Fast Blow Fuse: BPI# 59905

Warning!
ALWAYS UNPLUG THE UNIT WHEN SERVICING.

If this equipment is used in a manner other than that specified by Brain Power Incorporated, the protection provided by the equipment may be impaired.

To clean the meter, wipe with a damp cloth.

Questions?
For information about any BPI product and to order supplies, please give us a toll-free call at the number shown for your area.

For maximum protection against UVA energy, wear UV safety glasses & avoid looking directly at UV light source.