BPI UV Photometer III™

For use only by qualified personnel in a laboratory environment.

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

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 PROCES SOR'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.

HEIGHT	WIDTH	LENGTH	VOLTAGE	WEIGHT	FUSE	AMPERAGE
5 in.	6.25 in.	6.75 in.	115 or 220 v.	6 lbs	1 amp/250v.	1 amp
12.7 cm	15.87 cm	17.14 cm		2.72 kg	Fast Blow	

LENS CLEARANCE	TEST RANGE	THE SET-UP KIT INCLUDES THE FOLLOWING PRODUCTS:
0.75 in. 19.05 mm	350 nm to 400 nm (UVA)	• Calibration lens • Patient brochure stand • Instruction manual • Power pack • Patient brochures

The meter is for indoor use only at altitudes below 2000 meters. Ambient temperatures must be between 5° C and 40° C. Maximum relative humidity is 80% for temperatures up to 31° C, decreasing linearly to 50% relative humidity at 40° C. Mains supply voltage fluctuations not to exceed ± 10% of the nominal voltage. Transient over-voltages must not exceed those of category II. This meter is designed for pollution degree 2.

Unpacking

When unpacking your dye system, please check to ensure that no concealed damage occurred in transit. If such is noted, save the shipping carton and immediately notify the shipping company's damage control inspector in your area so a claim may be processed. Failure to do this may void any future claim and replacement. Also, call BPI Customer Ser vice so arrangements for a replacement may be made.

Display

The display shows the percentage of UV light between 350 and 400 nm passing through the lens

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UVA Emanation

The UVA energy (320 to 400nm) that is emitted by this unit is also emitted by sun and sky light and is, therefore, a natural component of our environment. However, over exposure to UVA energy may produce eye irritations and permanent eye injury.

FOR MAXIMUM PROTECTION AGAINST UVA ENERGY, WEAR UV SAFETY GLASSES & AVOID LOOKING DIRECTLY AT UV LIGHT SOURCE.

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.

BPI# 109514 (115v)
BPI# 209514 (220v)