

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 BPI Dual Computer Cal III™ (BPI #119511. 220v: BPI# 219511) is an invaluable aid for quality control of lenses that have received UV light absorption treatment. The instrument will also measure visible light transmission. The visible portion of the instrument may be used for fashion tint control and for critical density adjustments on therapeutic tints such as BPI Filter Vision[™] 540 and BPI Filter Vision[™] 500.

The BPI Dual Computer Cal III[™] features a microprocessor controller that at a push of a button calibrates the meter for a 100 percent transmission. No matter what happens to the intensity of the UV light, auto calibration is guaranteed because of the meter's new circuitry that contains an automatic gain controller stage that accommodates itself to any possible variations in the AC line voltage, as well as to any gradual decay of the intensity of the UV light bulb over long periods of time.

Variations in density and hardness of CR-39™ lenses typically affect their 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 the BPI Dual Computer Cal III[™] offers a quantitative means of verifying this.

The meter's digital display indicates the percentage of UVA (320 to 400 nm) and the percentage of visible light (400 to 710nm) passing through a lens. It is a quick and accurate way to check the transmission characteristics of lenses.

HEIGHT	WIDTH	LENGTH	VOL	TAGE	WEIGHT	FUSE	AMPERAGE
5 in.	6.25 in.	6.75 in. 115 or 220 v		⁻ 220 v.	6 lbs	1 amp/250v.	1 amp
12.7 cm	15.87 cr	m 17.14 cm			2.72 kg	Fast Blow	
LENS CLEA	TEST RANG	E THE SET-UP KIT INCLUDES THE FOLLOWING PRODUCTS:					
0.75 in.		350 nm to 400 nm (UVA) 400 nm to 700 nm (Visible)					
19.05 mm							
		<u></u>					

As a guick and accurate way to check the UVA

transmission characteristics of a lens, the BPI

Dual Computer Cal III[™] includes a second

display function consisting of three different

colored light emitting diodes (LED's). This

function makes the instrument a valuable tool

for the waiting room or just for instant

FOR MAXIMUM PROTECTION AGAINST UVA

ENERGY. WEAR UV SAFETY GLASSES &

AVOID LOOKING DIRECTLY AT UV LIGHT

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 \pm 10% of the

nominal voltage. Transient over-voltages must

not exceed those of category II. This meter is

When unpacking your instrument, 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 Service so arrangements for a

replacement may be made.

designed for pollution degree 2.

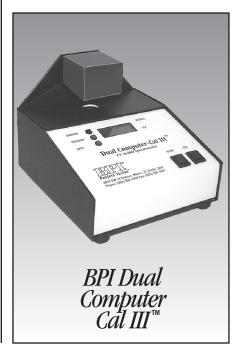
Unpacking

verification of UV protection.

SOURCE.

Setting Up

To set up your BPI Dual Computer Cal III™, just connect the power pack to the unit and plug into a standard electrical outlet convenient to your work area but away from the immediate vicinity of the lens coloring operation since excessive heat and humidity may adversely affect your instrument. Your BPI Dual Computer Cal III[™] arrived with a lens treated with BPI UV Diamond Dve™ 400 taped on the back panel. This lens is included for demonstration purposes as well as for testing your unit. A reading of 3% or less for UVA transmission should be obtained when using this lens.



Operation

The BPI Dual Computer Cal III[™] has an ON/OFF switch (located in the back of the unit), and two push buttons labeled CALIBRATE and READ.

STEP 1: Turn the unit on (ON/OFF switch is located on the back of the unit).

STEP 2: Wait until the UV bulb is stable (approx, 5 minutes) and make sure that no lens is in the optical path of the UV light source.

STEP 3: Momentarily push the Calibration button. A reading of 100 will appear on the LCD for both the UV and the Visible. The unit is now calibrated. If either channel is unable to calibrate itself, a reading of EH will appear on that channel if the light is too bright. (EL if the light is too dim or off). On initial turn-on, the unit may read too dim on the UV channel due to an attempt to calibrate before the UV lamp comes on. Simply push the Calibrate button after the UV lamp is on.

STEP 4: Place the lens to be tested on the rubber mat and slide it under the sensor housing and into the optical path of the UV light. Push the READ button. The transmission readings will appear on the LCD and one of the three LED's will be on. One minute after calibration the unit will shut itself off (display dashes); push the Calibrate button to reset. The display will show the UV and visible readings until the READ or CAL buttons are pressed or until the maximum calibration period elapses. IMPORTANT: Remove lens from optical path before recalibrating.

Lenses with moderate to high power may cause cross-talk between the UV and visible channels. This can be minimized by making sure that the optical center of the lens is directly over the light source opening in the black rubber pad.

Should the unit ever fail to function properly, press "Calibrate" to verify calibration. If the unit continues to malfunction, turn the unit off, wait a few seconds, then turn the unit back on.

LED Display

The LED Display on the BPI Dual Computer Cal III[™] has been calibrated as follows:

• DANGER (Red light) indicates 12% or more of UVA transmission.

 CAUTION (Yellow light) indicates between 4% and 11% UVA transmission

 SAFE (Green light) indicates 3% or less of UVA transmission.

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 per manent eye injury.

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

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.

Replacement Parts

1 AMP/250v. Fast Blow Fuse... BPI#59905

Ouestions? Ordering...

If you have any questions about the use of your gradient system or any other BPI product, or would like to order supplies, please give us a toll-free call using the number for your area.

© 2000 BPI. All specific product names mentioned herein are trademarks of Brain Power Incorporated, Miami, Florida, USA . (Unless otherwise stated). BPI is a registered trademark with the US Patent Office and with similar offices in other countries. MANUAL FILE# M2081

BPI Dual Computer Cal II.

BPI# 119511 (115v) BPI# 2119511 (220v)