

WARRANTY

UVP's products are guaranteed to be free of defects in materials, workmanship and manufacture for one (1) year from date of purchase; transilluminators are guaranteed for two (2) years. Consumable and disposable parts including, but not limited to tubes and filters, are guaranteed to be free from defects in manufacture and materials for ninety (90) days from date of purchase. If equipment failure or malfunction occurs during the warranty period, UVP shall examine the inoperative equipment and have the option of repairing or replacing any part(s) which, in the judgment of UVP, were originally defective or became so under conditions of normal usage and service.

No warranty shall apply to this instrument, or part thereof, that has been subject to accident, negligence, alteration, abuse or misuse by the end-user. Moreover, UVP makes no warranties whatsoever with respect to parts not supplied by UVP or that have been installed, used and/or serviced other than in strict compliance with instructions appearing in this manual.

In no event shall UVP be responsible to the end-user for any incidental or consequential damages, whether foreseeable or not, including but not limited to property damage, inability to use equipment, lost business, lost profits, or inconvenience arising out of or connected with the use of instruments produced by UVP. Nor is UVP liable or responsible for any personal injuries occurring as a result of the use, installation and/or servicing of equipment.

This warranty does not supersede any statutory rights that may be available in certain countries.



Web Site: www.uvp.com

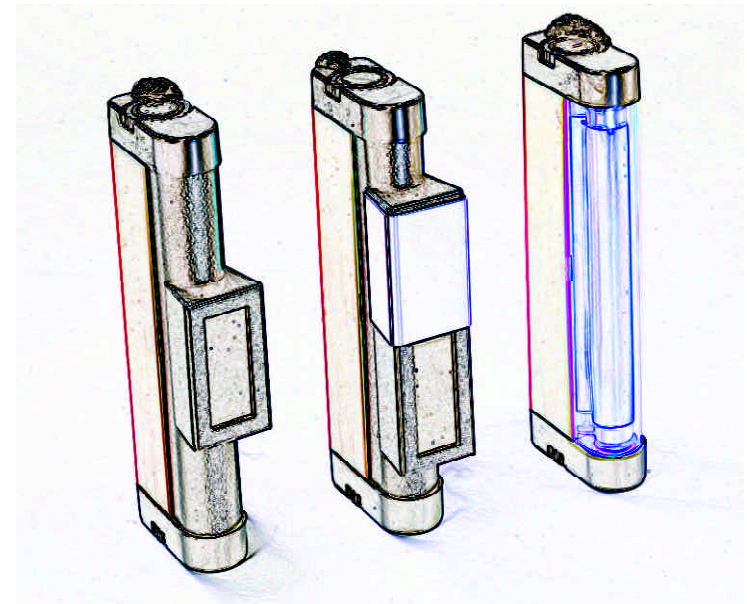
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81-0116-02 Rev A

User's Manual

Blak-Ray® and Mineralight® Mini UV Lamps



UVG-4, UVSL-14P, UVL-4



Blak-Ray® and Mineralight® are Registered Trademarks of UVP, LLC

Introduction

Ultraviolet light is electromagnetic radiation in the part of the spectrum between x-rays and visible light, approximately 180nm to 400nm. It differs from light only that its wavelengths are too short to be seen by the human eye.

UV-A, or long wave radiation, is 315nm and above. UV-B, or mid-range radiation, is 280nm - 315nm. UV-C, or short wave radiation, is 280nm and below.

When UV radiation falls upon phosphors, it causes the phosphors to emit specific radiation. This phenomenon is known as fluorescence. In some materials, the fluorescence lingers on and slowly disappears after the UV source is removed. This phenomenon is known as phosphorescence.

CAUTION: SHORTWAVE UV IS HARMFUL TO THE EYES OR SKIN. PROPER PROTECTION MUST BE WORN WHEN OPERATING A LAMP WITH SHORTWAVE UV.

Tube Replacement

To replace the tube, turn the unit off. Turn the knob opposite the battery compartment. The black side panel will slip off. Pull and lift the top of the lamp housing at this end, until it comes off to gain access to the tube. Rotate the tube to release the pins. The tube should come out easily. Insert the new tube.

CAUTION: DO NOT EXPOSE EYES OR SKIN TO SHORTWAVE ULTRAVIOLET LIGHT AS RAYS MAY BURN UNPROTECTED EYES OR SKIN (UVG-4, UVSL-14P). UV Blocking Eyewear is recommended.

Replacement Tubes/UV Blocking Eyewear

UVL-4	34-0010-01
UVG-4	34-0003-01
UVSL-14P	34-0004-01
Spectacles	98-0002-01
Goggles	98-0002-02

Battery Replacement - UVSL-14P Shown



Battery Replacement

The UVL-4, UVG-4 and UVSL-14P all operate on four (4) standard AA batteries. Some alkaline batteries with test strips are slightly larger than standard batteries and may cause a tight fit. Recommended batteries for use the Mini UV Lamps are Ever-Ready Classic and RAYOVAC without test strips.

To replace the batteries: Press thumb in the center of the battery housing closure and slide the hinged door forward and up. Insert 4 AA batteries. Replace the door.

NOTE: Remove the batteries if the unit is to be stored for more than a few months.

Technical Support

Contact UVP's offices with any questions regarding this product.

A **Returned Goods Authorization** number (RGA) must be obtained from UVP prior to returning any item to UVP.