Technical Support & Warranty

Contact UVP's offices with any questions regarding the use of this product. A **Returned Goods Authorization (RGA)** number must be obtained from UVP prior to returning any product to UVP.

UVP's products are guaranteed to be free of defects in materials, workmanship and manufacture for one (1) years from the date of purchase; transilluminators are guaranteed for (2) years. Consumable and disposable parts including, but not limited to bottles, 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 any 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 the instructions appearing in the operational manual supplied to the end user.

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.

UVGD-68 Mineralight® Display Lamp

Instruction Guide

NOTICE

Do not look into a lighted shortwave or multi-band Mineralight lamp as it can quickly burn your eyes and skin. Always hold Mineralight lamps so that the light beams are facing away from the user. Wear UV protective eyewear when using the UVGD-68.

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81-0019-02 Rev F

Ultraviolet Light

Ultraviolet energy cannot be detected by the human eye. Only a blue-hued light will be visible through the filter of the lamp. This is due to the emission of visible light from the lamp grid. The integrated filter eliminates most of this visible light interference and also reduces solarization for prolonged filter life.

Shortwave (254nm) is the ultraviolet energy farthest from visible light, shorter than rays in sunlight, and is primarily noted for its ability to fluoresce minerals for chemical analysis. It is also noted for its germicidal effects.

Using the Ultraviolet Lamp

The UVGD-68 is supplied with an 8-foot primary power cord which must be plugged into a wall power supply. The lamp is turned on and off with a single toggle switch and reaches its peak intensity after a five minute warm up period.

Filter Assembly Replacement

Since shortwave filters deteriorate over time due to solarization, periodic replacement is required. Depending on the application, a useful life of 500 to 1,000 hours can be expected. Since the filter is permanently attached to the frame, the filter must be replaced as a filter/frame assembly. To replace the filter, unplug the lamp from its power source. Remove the four screws on the side of the faceplate. Carefully lift off the old filter/frame assembly. Place the new assembly into position on the lamp housing and replace the four screws.

Not all fluorescent samples have the same brightness response to UV. Brighter specimens will often respond for over 1,000 hours if within a reasonably close range. However, if specimens with a lower level of fluorescent response are used, either move the specimen closer to the lamp or replace the filter.

Grid Replacement

The UVGD-68 lamps have a grid life of approximately 20,000 hours. The lamp's unique grid can be continuously used on a flasher without any effect on grid life.

To replace the grid, unplug the lamp from its power source. Remove the filter/frame assembly (see "Filter Assembly Replacement" above). Follow the lead wires from the end of the grid to the terminal strip attached to the bottom of the lamp housing. Loosen the two screws that hold the wires coming from the grid to the terminal strips, and remove the two wires. The grid and reflector are a single unit and will easily lift out. Replacement is the opposite of removal. Note that the grid and reflector must be replaced as a single unit.

The old grid/reflector assembly contains mercury and must be disposed of according to governing regulations. The assembly may be sent to UVP headquarters for proper disposal.

Mounting Instructions

The UVGD-68 lamp comes with wall mounting brackets. To mount the bracket, remove the screws that hold the pivoting portion of the bracket together. Once disassembled, bolt or screw the unattached bracket piece to the desired location, horizontally or vertically. After the bracket is secured, lift the lamp into position and reattach the two pivot screws. Note that the screw must pass through the open hole into the threaded hole on the bracket. To adjust the beaming angle, loosen the screws, pivot the lamp to the desired angle, and then tighten the screws.

Using Flashers

The use of a flasher will greatly help in maximizing the life of the shortwave filter. If the lamp is being used in a mineral display, the flasher can provide a dramatic effect of showing drab-looking minerals under ordinary light and transforming these specimens to their glowing fluorescence under ultraviolet light. Simple manual flashers can be purchased at electrical supply houses. Lamps can be continuously used with a flasher without any effect on lamp life.

Replacement Parts & Accessories

Model	***Grid Part No.***	***Filter/Frame Part No.***
UVGD-68 Lamp	77-0001-04	38-0006-04

Part Description	***Part No.***
UV Goggles	98-0002-02
UV Spectacles	98-0002-01
UV Faceshield	98-0002-04
UV Intensity meters	Contact UVP

Blak-Ray® Safety Goggles and Contrast Control Spectacles
Special formula lenses completely eliminate "blue haze" interference while protecting eyes from harmful bands of UV. UV Goggles (part number 98-0002-02) provide maximum safety from extended or high intensity UV light sources. UV Spectacles (98-0002-01) are used for sporadic lower intensity UV light sources and can be worn comfortably over prescription glasses. The UV Faceshield (part number 98-0002-04) provides similar UV protection for the entire face.

Ultraviolet Intensity Meters
For the widest energy range measurements, high accuracy and interchangeable sensors for measurements at 365nm, 302nm and 254nm, the UVX Digital Radiometer can be used. Units are handheld, battery operated and have compact sensors with 3-foot electrically shielded cords. Also available are Blak-Ray Meters in models J-221 for the measurement of longwave (365nm) UV, or J-225 for the measurement of shortwave (254nm) UV. The meters are compact and highly accurate.