UVGD-68 Mineralight Display Lamp

Operating Instructions

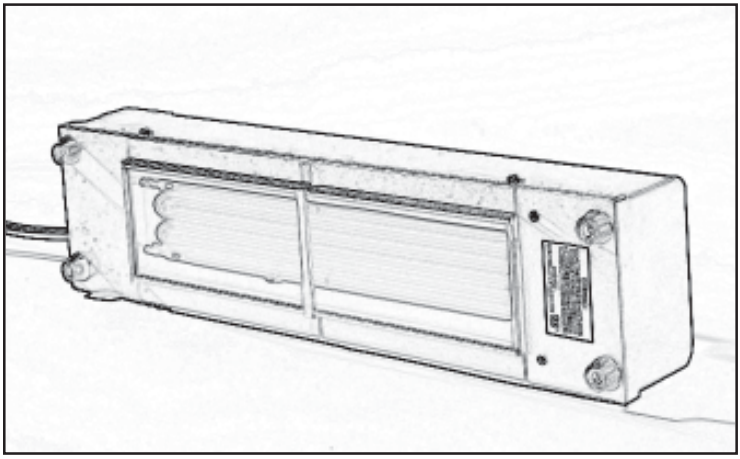
WARNING

Do not look into a lighted shortwave Mineralight lamp as it can quickly sunburn your eyes and skin. Always hold Mineralight lamps so that the light beams are away from you. Wear UV protective eyewear when using the UGVD-68.

ULTRAVIOLET LIGHT

Ultraviolet energy cannot be detected by the human eye. A bluish light will be visible through the filter of your lamp. This is due to the emission of visible light from the tube. The special filter eliminates most of this visible light interference.

Shortwave... The ultraviolet energy farthest from visible light, shorter than rays in sunlight, and primarily noted for its ability to fluoresce minerals for chemical analysis, and for its germicidal effects.



UVP

OPERATION

All display lamps are turned on and off with a single toggle switch. Model UVGD-68 reaches its peak intensity after a five minute warm up. The UVGD-68 is supplied with an 8-foot primary power cord.

REPLACING A FILTER

Shortwave filters are subject to deterioration due to solarization and need replacement periodically. Depending on the application, a lifetime of 500 to 1000 or more hours of operation can be expected. A display lamp is normally operated in a fixed position. Not all fluorescent minerals have the same brightness response to UV. The brighter specimens will often respond for over 1000 hours if within a reasonably close range, but if you are showing specimens of lower level of fluorescent response, you may want to bring the lamp closer to the specimens or replace the filter earlier than normal.

Changing filter assembly: Remove the six screws on the faceplate. Lift off the face carefully and replace with the new filter. Place new faceplate frame and filter assembly into position on lamp housing and replace screws.

REPLACING THE GRID

The UVGD-68 lamps have a grid life of about 20,000 hours. The special tube used in this lamp can be used on a flasher continuously without any effect on its life.

Model UVGD-68 — To replace the grid, remove face plate in the same way as stated for filter replacement. Note that the grid and reflector are attached. Do not attempt to remove the wires from the end of the grid. Follow lead wires from end of the grid to terminal strip attached to bottom of lamp housing. Loosen two screws that hold wires running directly from tube to terminal strips, and remove two wires. Tube and reflector are attached together and will easily lift out since reflector is seated into housing but not attached to housing. Return old grid with reflector to the factory. The grid cannot be repumped or repaired and must be replaced. For this reason it is often best to return the entire lamp to the factory for replacement. If shipping is a problem, a new grid can be returned on your old reflector.

MOUNTING INSTRUCTIONS

All lamps come with wall mounting brackets. The bracket is easily disassembled by removing the two securing screws. Once disassembled, Simply

bolt or screw bracket to desired location. The lamp can be mounted horizontally or vertically. After the bracket is secured, lift lamp into position and attach to bracket. Note that the screw must pass through the open hole into the threaded hole. To remove the lamp, remove the screws and lift the lamp up and away.

To adjust beaming angle, loosen the screws and pivot lamp to desired angle, then tighten screws.

THE USE OF FLASHERS

The use of a flasher will greatly help in maximizing the life of the shortwave filter (see Replacing a Filter above). If you are using the lamp 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 beauty under ultraviolet light. Simple manual flashers can be purchased at electrical supply houses.

REPLACEMENT FILTERS AND TUBES

Model	Shortwave filter/frame	Shortwave Grid
UVGD-68	38-0006-04	77-0001-04

ACCESSORIES

Protective Eyewear: Blak-Ray Safety Goggles and Contrast Control Spectacles .... Special formula lenses completely eliminate “blue haze” interference while protecting eyes from harmful bands of UV. UVC-503 Goggles provide maximum safety from extended or high intensity UV light sources while the UVC-303 Spectacles are used for sporadic lower intensity UV light sources and can be worn comfortably over prescription glasses.

Ultraviolet Intensity Meters ... For widest energy range measurements, highest accuracy, and interchangeable sensors (ordered separately) for measurements at 365nm, 300nm and 254nm, the new UVX Digital Radiometer can be used. Units are hand-held, battery operated, and have compact sensors with 3' electrically shielded cord. Also available are BLAK-RAY Meters in models J-221, which measures longwave (365nm), or J-225 shortwave (254nm) ultraviolet. Compact (fits in the hand). Removable sensors call for ease of operation. Highly accurate. For measuring ultraviolet intensity from ultraviolet sources.

PRODUCT WARRANTY

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.

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