

OPERATING INSTRUCTIONS

for the R-52G

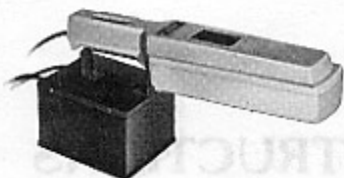
MINERALIGHT® ULTRAVIOLET LAMP

WARNING

Do not look into a lighted shortwave or multiband **MINERALIGHT®** lamp as it can quickly sunburn your eyes and skin. Always hold **MINERALIGHT®** lamps so that the light beams are away from you.

Longwave ultraviolet is generally considered harmless to the average person. Individuals that are photosensitive or are subject to long term exposures may expect adverse reactions if they do not have adequate protection.





CONGRATULATIONS!

Your new R-52G lamp represents the highest achievement in ultraviolet lamp history. The result of extensive research and craftsmanship, this lamp will give you years of trouble-free service.

All R-52G Series Lamps are housed in hand-contoured, rugged cyclocac®.

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.

Ultraviolet energy is just shorter in wavelength than visible violet light, and can be divided into two groups;

Longwave...

The ultraviolet energy nearest to the visible light range (commonly called black light), activates fluorescence in numerous natural substances and manufactured materials.

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.

OPERATING INSTRUCTIONS

Plug your lamp into a standard AC outlet. Push switch on transformer housing UP. To turn OFF press switch DOWN.

LAMP HOUSING

To remove lamp housing from the transformer handle — grasp the top of the transformer with the right hand; then grasp the lamp housing with the left hand fingers over the nameplate and thumb just in front of the filter frame (under side of lamp housing) — twist lamp up and out to remove.

FILTER

Shortwave (MINERALIGHT®) lamp filters have a rated average life of 1000 hours. When the ultraviolet intensity on the shortwave lamp decreases considerably, a new filter is needed. To prolong the life of the shortwave filter, make sure your lamp is turned off when not in use.

HOW TO REMOVE THE FILTER FRAME FOR MAXIMUM PHOTOCHEMICAL REACTION- PHOSPHORESCENCE—RARE EARTHS

To remove the filter frame, slide a coin, screwdriver, etc. into the slot under nylon button and twist it. It will raise approximately ¼ inch or until it snaps twice. This will disengage the filter frame from the lamp housing. Lift the frame up and out from the lamp housing.

To replace the filter frame, slide the large part of the frame into the lower end of the lamp housing. Press the frame into position and snap the nylon button inward to the locking position.

FILTER REPLACEMENT —

Remove the old filter frame, as described above, and insert the new filter frame in its place.

TUBES

The lamp has a special tube available only from UVP INC. If broken, please return the tube and reflector to the factory together to assure a proper fit when your new tube and reflector are returned.

Remove the filter frame as described above. Then remove the five screws from the lower housing. Unscrew the two wire nuts. Remove the four screws holding the reflector to the lamp housing.

Pack the tube and reflector carefully to insure the package against breakage.

HELPFUL HINTS

- These ultraviolet lamps are designed for use in dark or semi-dark areas. Allow enough time for your eyes to adjust to the darkness prior to using your lamp.
- Some materials will tend to fluoresce more brightly than others.
- This reaction is due to the concentration of fluorescence on the material, and varying degrees of brightness of different colors.

REPLACEMENT PARTS

GRID	77-0003-01
FILTER/FRAME	98-0012-02

ACCESSORIES

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 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. Modestly priced.



www.uvp.com

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