Lamp Grid

The lamp has a special grid available only from UVP LLC. If broken, return the grid and reflector to the factory together to assure a proper fit when the new grid 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 decrease the chance of 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 the lamp.

Some materials will tend to fluoresce more brightly than others. This reaction is due to the concentration of fluorescence on the material and the varying degrees of brightness of different colors.

Replacement Parts

Part Description	***Part Number***
Lamp Grid	77-0002-02
Filter Frame	98-0004-03

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 (part number 98-0002-02) provide maximum safety from extended or high intensity UV light sources. UVC-303 Spectacles (98-0002-01) are used for sporadic lower intensity UV light sources and can be worn comfortably over prescription glasses. The UVC-803 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.

R-52G Mineralight® UV Lamp

Instruction Guide

UVP, LLC
2066 W. 11th Street, Upland, CA 91786
Tel: (909) 946-3197 / (800) 452-6788
Fax: (909) 946-3597

Ultra-Violet Products Ltd.
Unit 1, Trinity Hall Farm Estate
Nuffield Road, Cambridge CB4 1TG UK
Tel: +44(0)1223-420022 Fax: +44(0)1223-420561

Web Site: www.uvp.com

81-0018-02 Rev D

Introduction

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 lamps are constructed of hand-contoured, rugged Cycolac® plastic and use a shortwave, 254nm lamp grid.

WARNING

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

Eye and face protection is essential for anyone working with ultraviolet sources, as these can cause burning. See Page 4 for protective equipment ordering information.

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 ultraviolet energy is shorter in wavelength than visible violet light, and can be classified as follows:

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. It is also noted for its germicidal effects.

Operating Instructions

Plug your lamp into a standard AC outlet. Push the black switch on the housing up to the ON position. To turn off the light, press the switch down to the OFF position.

For sterilization and bacterial destruction, the filter plate can be removed for additional intensity.

Lamp Housing

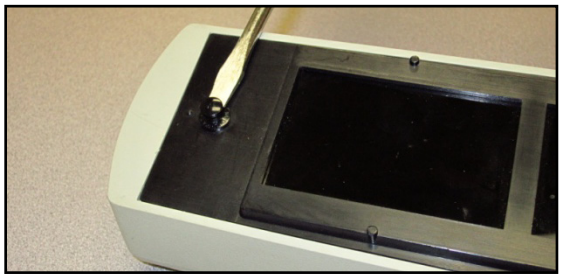
To remove the lamp housing from the transformer handle, grasp the top of the transformer with the right hand. Then, grasp the lamp housing with the left hand fingers over the nameplate and thumb just in front of the filter frame (under side of lamp housing). Twist the lamp up and out to remove.

Filter

Shortwave Mineralight lamp filters have a rated average life of 1,000 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 the lamp is turned off when not in use.

Frame Removal

To remove the filter frame for maximum photochemical reactions (phosphorescence and rare earths), slide a coin or screwdriver into the slot under the nylon button and twist. This will raise the button approximately 1/4 inch and snap twice. This will disengage the filter frame from the lamp housing. Lift up the frame and pull 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.

To replace the filter glass, remove the old filter frame, as described above, and insert the new filter frame into place.