

Lamp Grid

The lamp has a special grid available only from Analytik Jena. If broken, return the grid and reflector to the factory together to ensure 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

<i>Part Description</i>	<i>Part Number</i>
UVP R52 Grid	77-0002-02
UVP UVGL-58 Filter	98-0004-03

Accessories

Blak-Ray® Safety Goggles and Contrast Control Spectacles

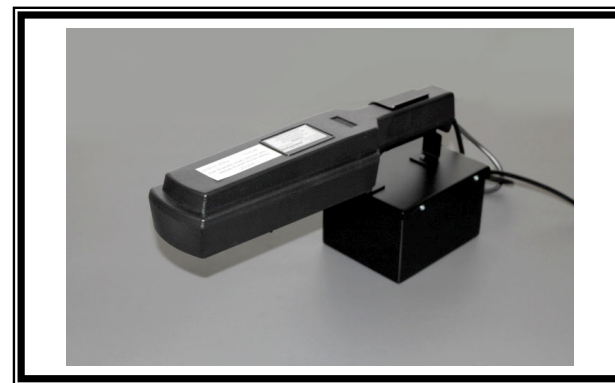
Special formula lenses completely eliminate "blue haze" interference while protecting eyes from harmful bands of UV. UVC-503 UVP Goggles (part number 98-0002-02) provide maximum safety from extended or high intensity UV light sources. UVC-303 UVP Spectacles (98-0002-01) are used for sporadic lower intensity UV light sources and can be worn comfortably over prescription glasses. The UVC-803 UVP 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 UVP 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



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Introduction

The 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 Cyclocac® 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

NOTE: Prior to initial operation, remove the filter frame according to the "Frame Removal" instructions in this manual, remove the packing material between the filter and bulb, then replace the filter.

Plug the lamp into a standard AC outlet. Set the black switch on the housing to the ON position. To turn off the light, set the switch to the OFF position.

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

Lamp Housing

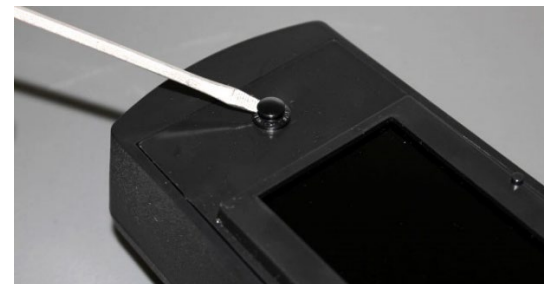
To remove the lamp housing from the transformer handle, grasp the top of the transformer with the right hand. Then, grasp the lamp housing with the left hand fingers over the nameplate and thumb just in front of the filter frame (under side of lamp housing). Twist the lamp up and out to remove.

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, ensure 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.

NOTE: Prior to initial operation, it is necessary to remove the filter frame according to the "Frame Removal" instructions, remove the packing material between the filter and bulb, then replace the filter.