

## Handheld Ultraviolet Lamps operating instructions

### WARNING

Do not look into a lighted shortwave or xepu-1338LMS UV lamp as it can quickly sunburn your eyes and skin. Always hold XEPU-1328/1338 lamps so that the light beams are away from you. The xepu-1318 lamp's 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.

### 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 the visible light interference. Ultraviolet energy is just shorter in wavelength than visible light and can be divided into three groups:

#### **Longwave:**

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

#### **Midwave:**

The ultraviolet energy representing the shortest wavelengths found in sunlight, causing sunburn and used to fluoresce certain substances more effectively than shortwave or longwave ultraviolet light.

#### **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.



## USING THE ULTRAVIOLET LAMP

Plug your lamp into a standard AC outlet. Single ultraviolet wavelength lamps utilize an ON/OFF rocker switch. Multiple ultraviolet wavelength lamp models use an ON/OFF/ON rocker switch where the ON corresponds to the UV wavelengths. 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 brighter than others. This reaction is due to the concentration of fluorescence on the material and varying degrees of brightness of different colors.

### **USING THE WAVELENGTH SELECTOR (Models XEPU-1328LS, XEPU-1338LMS)**

The wavelength selector is included on multi-band lamps — half longwave and half shortwave. The wavelength selector is designed to block off either longwave or shortwave on these lamps. The selector can be slid up and down to give you either wavelength. When the selector is moved over the bottom half of the filter area, it blocks the longwave UV, allowing only shortwave UV to be emitted. By sliding the selector over the top half of the filter, only the longwave UV is emitted.

The wavelength selector snaps on or off the lamp easily.



more product: **Handheld Ultraviolet Lamps**