



Bill Gardner 4608 W. Bluefield Ave. Glendale, AZ 85308

Tel 602-547-2234 Mobile 602-616-1742

e-mail wggardner@aol.com www.fluorescents.com

Instructions and Warranty

The unit you have purchased has a 5 watt SW/MW/LW lamp fixture that operates for approximately 2 hours on two 2500 mA 18650 protected batteries. Some inexpensive protected batteries (approximately 1,400 mA) are available for \$2 each, and better 2,500 mA protected batteries are available for \$4.50 each. This is NOT intended to be a display lamp and it cannot be run for many hours at a time, it is intended for intermittent use. There is a thermal switch that will turn off the ballast if it gets too hot. If you need a unit for other purposes contact Way Too Cool. The unit also has a port on the side for an external 8.4 volt, 1,000 milli-amp power supply which can either operate the fixture, or charge the batteries, but not both.

The basic unit emits UV C ultraviolet radiation and a small amount of visible purple light along with the UV. This visible light is coming through the purple filter glass and it will make some items look slightly purple even though the item is not actually fluorescing purple. Stored in the back of the unit are two very special sheets of white plastic. One of these sheets converts the UV C to UV A and the other sheet converts the UV C to UV B. The UV B sheet has a yellow or red tab or is marked with an "M" and the UV A sheet has a blue or a green tab or is marked with a "L". To change the wavelength, open the back of the unit as you would to change the batteries, take out one of the wavelength changing sheets and slide it into the slot on the end of the unit. Depending on which sheet you put in the slot, the unit will now emit UV B or UV A. Of course, if you put the sheet only halfway, then a combination of UV is emitted.

Applications for UV radiation include:

Security - To help thwart counterfeiters., sensitive documents (e.g. credit cards, driver's licenses, passports) may also include a UV watermark or sensitive inks and security threads that are visible only under a UV-emitting light. Passports issued by most countries usually contain UV. Visa stamps and stickers on passports of visitors contain large detailed seals invisible under normal light, but strongly visible under UV illumination. Passports issued by many nations have UV sensitive watermarks on all pages. Currencies of various countries' banknotes have an image, as well as many multicolored fibers, that are visible only under ultraviolet light.

Forensics - UV lights are an investigative tool at the crime scene helpful in locating and identifying bodily fluids (semen, blood, bile etc.)

Biological surveys and pest control - Scorpions fluoresce a yellow to green color under UV illumination, thus assisting in the control of these arachnids. The urine and other secretions of some animals, including dogs, cats, and human beings, is much easier to spot with ultraviolet. Urine trails of rodents can be detected by pest control technicians for proper treatment of infested dwellings.

Sanitary Inspection - UV lights including newer LEDs (light emitting diode) aid in the detection of organic mineral deposits that remain on surfaces where periodic cleaning and sanitizing may not be properly accomplished. Both urine and phosphate soaps are easily detected using UV inspection. Pet urine deposits in carpeting or other hard surfaces are easily seen for accurate treatment and removal of mineral tracers and the odor causing bacteria. Many hospitality industries use UV lights to inspect for unsanitary bedding to determine life cycle for mattress restoration as well as general performance of the cleaning staff.

Mineral Identification - UV lights are also used in analyzing minerals & gemstones, or for viewing fluorescent minerals. Materials may look the same under visible light, but fluoresce to different degrees under ultraviolet light; or may fluoresce differently under short wave ultraviolet versus long wave ultraviolet.

Authentication

UV lights are used in detective work including authentication of various collectibles and art, and detecting counterfeit currency absent of marker dyes. Materials may look the same under visible light, but fluoresce to different degrees under ultraviolet light; or may fluoresce differently under short wave ultraviolet versus long wave ultraviolet.

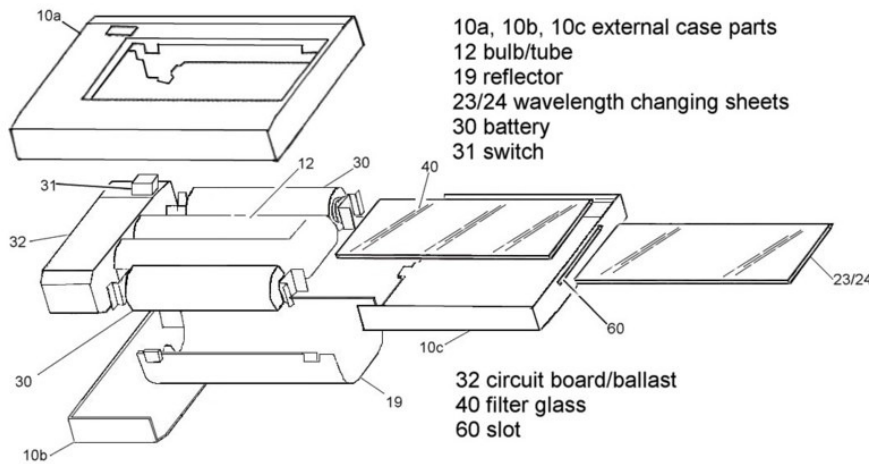
Chemical markers - UV fluorescent dyes are used in many applications (for example, biochemistry and forensics). The Green Fluorescent Protein (GFP) is often used in genetics as a marker. Many biological substances, such as proteins, fungi, and molds fluoresce under UV illumination.

Sterilization - UV lights are used to sterilize workspaces and tools used in biology laboratories and medical facilities. They are also used to sterilize common surfaces such as keyboards, telephones, toothbrushes, and other items around the home or when traveling. However, microorganisms can be shielded from ultraviolet light in small cracks and other shaded areas, therefore some caution is warranted when using this device for sterilization.

UV Curing - Certain inks, coatings and adhesives are formulated so that the adhesives harden or cure when exposed to the UV illumination.

Do not expose your skin or eyes to the UV rays emitted from this lamp. Sunburn will result from over-exposure. Due diligence and all normal safety precautions need to be followed at all times. Children should not use this unit unless supervised by an adult. It is recommended that eye protection such as UV blocking safety glasses should be worn as protection against accidental exposure to the eyes. Sun-block, gloves, or protective clothing are also recommended to protect the skin when using the lamp fixture. Do NOT shine the rays from this unit at any eyes or skin. SW & MW (short-wave, UV C & mid-wave UV B) ultraviolet light/radiation causes sunburn. Ultraviolet radiation of all wavelengths may cause damage.

This lamp comes with a limited 1-year warranty, from the date of purchase, to cover the cost of labor and the replacement of defective parts. Customer is responsible to ship the unit back to Way Too Cool for repairs unless other arrangements are specifically made in advance with Way Too Cool. The warranty covers such items as a malfunctioning ballast, or a broken switch. This warranty does not cover burned out or broken bulbs/tubes, it does not cover broken filter glass, or other damage due to mishandling unless the damage happened during the original shipping.



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