

ULTRAVIOLET LAMPS FOR AFLATOXIN AND RODENT CONTAMINATION DETECTION

UV light is a convenient screening procedure for detecting Aflatoxin and rodent contamination in food materials. The detection of bright greenish-yellow fluorescence indicates there may be mold present that can produce the toxic Aflatoxin. Rodent hair and urine also fluoresce under UV light.

Aflatoxins are a family of toxins produced by certain fungi that are found on agricultural crops such as Corn, Cottonseed, Peanuts and Tree Nuts. A little as 20 parts per billion of Aflatoxin is sufficient to

render Corn unfit for human consumption. It is necessary to grind (or crack) the materials before the sample is scanned with the UV light (see pages 16–18 for grinders and mills). The samples should be fresh because the fluorescence is not stable and will eventually disappear although the toxin itself remains.

Additionally, there are other molds and fungi which can produce fluorescence and further tests should be conducted to determine the presence of Aflatoxin levels (see pages 20–21 for Mycotoxin test kits).

High Intensity Ultraviolet Lamp

The Seedburo High Intensity UV-365 series are ideal to use in any inspection application that requires a handheld UV-A light for indoor and outdoor environment. Recommended to detect at the range of low-level fluorescence or for use in brightly lit areas. All models provide a concentrated beam with a steady-state 7,000 $\mu\text{W}/\text{cm}^2$ at 15" (38cm) with an increased coverage area of 7" (17.78cm) at 15" (38cm). In addition, the lamps can be used in nondestructive evaluation, forensics, and security inspections.

Each unit features three (3) powerful UV-A LEDs for fluorescence detection and one (1) white light LED for the visual inspection. Unique engineered polymer housing makes this lamp extremely impact resistant and dentproof. The fanless design keeps LEDs cool to maintain optimum light output during extended use and the grip-mounted on/off rocker switch is great for control of the light source.

Each lamp is fitted with a heavy-duty 8 ft. (2.4 m) AC power cord, FP-600 borofloat filter protector, UVS-30 spectacles and a soft carrying case. The battery operated lamp includes a 12V, NiMH rechargeable battery that last approximately 3.5 hours of continuous use. CE approved and meets ISO 3059 Standards. Net wt: 2 lbs, Ship wt: 5 lbs, Ship dims: 13" (L) x 11" (W) x 9" (H)



High Intensity UV-365 with 8 Foot Cord, 100–120V, 50–60Hz	No. UV-365EH
High Intensity UV-365 with 8 Foot Cord, 220V, 50Hz	No. UV-365EH/C
High Intensity UV-365 with BP-30 NiMH Battery Pack and 8 Foot Cord, 100–120V, 50–60Hz.....	No. UV-365MEH
Optional Bench Mount.....	No. UV-365BM
Optional Wall Mount.....	No. UV-365WM
Optional Wall Mounting Bracket.....	No. UV-365WB

Battery Operated Ultraviolet Lamp

This portable battery-operated lamp has a number of built-in features which allow you to use it anywhere. It includes a 6V sealed lead acid rechargeable battery, a built-in AC charger and a charging cord. It's built to take tough use with a durable, high impact plastic housing and stainless steel tube guard that protects against breakage. The battery life is approximately eight continuous hours of operation with a 24 hour recharge (can not be used when recharging). UL listed and CE approved. Net wt: 3 lbs, Actual dims: 6" (L) x 3 1/2" (W) x 12" (H), Ship wt: 4 lbs, Ship dims: 13" (L) x 10" (W) x 6" (H).



Battery Operated 6V UV Lamp with 115V, 60Hz Recharger.....	No. B260/B
Battery Operated 6V UV Lamp with 230V, 50Hz Recharger.....	No. B260/C
Replacement Bulb, 6 Watt	No. B16B

Hand-held Ultraviolet Lamp

The handheld UV light is compact and lightweight for on-site or field inspections. Provides four to six hours of use on 1.5V alkaline (AA) batteries (not included), or unlimited use when powered by an AC adapter. The unit features a self-filtered, long-wave UV tube that provides a concentrated beam of 365 nm. All units feature sliding light shield for trouble-free tube changing and effortless battery replacement. Each unit includes AC adapter, nylon carrying strap, and nylon travel pouch. UL listed and CE approved. Net wt: 11 oz, Ship wt: 2 lbs, Actual dims: 2 1/4" (L) x 1" (W) x 9" (H), Ship dims: 11" (L) x 11" (W) x 6" (H).



Handheld UV Lamp with AC Adapter	No. B200	Replacement Bulb, 5 Watt	No. B200B
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