

Low Voltage Ultra Violet (LVUV) Oil Fluorescing Spotlights



Gulf Coast beach during daylight...



...the same beach under the LVUV light.



Tiny specks of tar balls under warm, white light are almost impossible to distinguish ...



... the same sample area under the LVUV light.



Tar balls and beach debris under the LVUV light. Note the bright orange of the tar balls.



Vertek's LVUV Series lights are the highest power UV lights on the market. They have the longest battery and lamp life and the kit contains everything you need to start working right away.

Because hydrocarbons fluoresce, or glow, under specific wavelengths of ultraviolet light the Vertek Division of Applied Research Associates has been producing Fuel Fluorescence Detection modules for our Cone Penetrometer (CPT) Systems to characterize hydrocarbon plumes below ground for over a decade.

Recently we have developed a series of high power Low Voltage Ultra Violet (LVUV) spotlights, based on our subsurface fuel fluorescence detection system, that can be hand held or outfitted to any vehicle, land or sea, to scan above ground areas for surface contaminants.

With Vertek's UV Spotlights, scientists and cleanup crews will be able to spot washed up oil and tar that has been mixed with mud and sand. Much of the oil and tar that is contaminating our beaches is virtually undetectable by the naked eye, even during daylight hours. Deposited tar balls, normally brown or black, and likely partially covered by sand, will glow bright orange and yellow under LVUV series spotlights. Our spotlights are housed in heavy duty water resistant anodized or powder coated aluminum that will resist oxidation and corrosion in high salinity environments. Our LVUV spotlights have the 365nm wavelength and the output levels needed to quickly screen for and detect a wide range of contaminants.



Low Voltage Ultra Violet (LVUV) Oil Fluorescing Spotlight - 1'

PORTABLE | LIGHT WEIGHT | VEHICLE MOUNT CAPABILITY

- Vertek's LVUV lights are more powerful than any other hand-portable UV lights on the market. Vertek's LVUV lights create extraordinary excitation of fluorescent material, which makes it possible to detect contamination within 18 to 20 feet.
- Vertek's 1 foot LVUV light is lightweight and versatile and can be hand carried or vehicle mounted.
- Vertek's 1', 2', and 6" lights are available in midlight class.
- All Vertek LVUV lights obtain full power instantly and can be switched on and off whenever used, without pre-cooling.
- Vertek LVUV lights are unaffected by magnetic fields.
- Vertek LVUV lights are designed to be used indoors or outdoors, and in almost any environment, as they are cased in a water resistant anodized aluminum housing.
- Vertek's LVUV lights are based on cutting edge UV LED technology – providing unbeatable endurance and ultra-low power consumption. The combination of these key factors creates unrivaled output performance.
- All Vertek products are manufactured in the USA.



**5X BRIGHTER
THAN OUR
COMPETITORS!**

Technical Specifications

Midlight

Distribution angle (beam) approx. 14°
Output Power: 2000 mW



Handles

- Handle included in kit
- Mounting Brackets

Voltage

- Charger: 110 VAC, 12 VDC
- Input Power: 14 W
- Output Power: 2000 mW

Battery

- 14.8 V Li-ion
- Running time: 8 hours
- Charging time: approx. 6 hrs
- Charge via wall socket charger
- Optional spare battery available for purchase
- Can also be powered externally with 12V automotive adapter

Additional Information

- Weight: 2.5 lbs (1.13 Kg)
- Service life (bulb): approx. 20,000 hrs
- Wavelength: UV-A, peak at 365 nm
- Start-up time: Full Power Instantly
- Material in housing: anodized aluminium, gasketed UV lens
- The housing is via pre milled slots prepared for mounting devices
- Dust and dirt proof, and water resistant

