

# PestWest UV-AMETER

**UV LAMPS STOP PRODUCING UV LIGHT LONG BEFORE THEIR BLUE VISIBLE LIGHT DECLINES – USERS CAN'T TELL BY LOOKING AT THEM!**

The PestWest® UV-AMeter is easy to use, enabling you to monitor the condition and quality of UV lamps in any electronic flying insect light system so that you get the best results. Making the pocket size UV-AMeter the perfect tool in any toolbox.

Measures ambient light first, then accurately measures true UVA direct from your system. Great for new accounts that have existing systems (who knows when the lamps were changed last?) and monitoring systems throughout the year.

**STANDARD UV LAMPS NEED TO BE CHANGED ANNUALLY. HOWEVER, THIS MAY BE MORE FREQUENT IF EXPOSED TO SENSITIVE AREAS OR NATURAL SUNLIGHT.**



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**PestWest USA LLC, 4363 Independence Court, Sarasota, FL 34234**  
OFFICE: 941.358.1983 FAX: 941.358.1916 TOLL FREE: 866.476.7378  
EMAIL: info@pestwest.com

[www.pestwest.com](http://www.pestwest.com)

# PestWest UV-AMETER



The **UV-AMeter** is designed specifically for professional assessment of the condition of UV lamps in electronic flying insect light systems with wattage outputs of between 10 - 160watts.

The **UV-AMeter** has two functions:

- A. Checking the system's UV output, and the condition of the lamps/tubes to show if replacement is required**
  - B. Assess ambient UV levels for optimal siting of new light systems.**
- A. To check UV output for a light system** - UVA output and intensity decreases proportionately with distance from the trap and age of lamps/tubes. The test should be carried out with the **UV-AMeter** pointed directly at the system from a distance corresponding to its total rated UV wattage. **Fig 1. Hold meter at a right angle and to the center of the light system under test, slight movements away from this angle will give incorrect readings.**

Total lamp wattage:	10 watts	20 watts	30 watts	50 watts	80 watts
Meters:	1.3	1.5	2.0	2.2	2.5
Feet:	4.25	5.0	6.5	7.25	8.25
Measurements are of the total output of the trap, there is no need to measure individual lamps/tubes.					Fig. 1

1. **Press either button A or B to turn meter on** - the Red LED on the far left will blink on and off.
2. To measure ambient light, **switch off the light system** and the with meter pointing in the general direction of the system, **press button A again**. The Green LED on the far right of the display will blink on and off indicating the meter has stored the ambient UV level of the room.
3. **Switch on the light system.**
4. Using the **Fig 1, establish the measuring distance** point from the system.
5. Point the meter directly at the UV lamps/tubes and **press button S** once.

The meter will monitor the UV, subtract the previous ambient reading, and display the light system UV reading by illuminating one of the 10 colored LEDs, **Fig 2**.

If a continuous assessment of UV is required, perform operation 5 but hold the button down continuously. Releasing the button stores the last reading.

**LED reading - The moving bar of LED lights change color according to the condition of the lamps. The further to the right the LED display moves the more UV output.**

Green - right 4 LEDs	Good - satisfactory
Yellow - center LEDs	Marginal output - approaching renewal
Red - left 3 LEDs	Inadequate - lamps/tubes should be replaced
Fig. 2	

## TO ASSESS AND DEMONSTRATE UV OUTPUT AND TUBE CONDITION

The illuminated LED will remain on without the need to hold any buttons until the meter powers down. This happens automatically 20-30 seconds after the last press of any button.

- B. Assessing ambient UVA levels** - When surveying a site prior to the installation of any flying insect management system, ambient UV levels should be measured to prevent poor system placement well as select the appropriate light system wattage.
  1. **Press either button A or B** to turn meter on - the Red LED on the far left will blink on and off.
  2. **Cover/hide the front aperture** of the **UV-AMeter** and **press button A again**. This will store a zero reading.
  3. With the meter pointing in the direction of the proposed siting, **press button S**. The meter will now indicate the actual level of UV light system according to how far to the right the display reads, Fig 2.
  4. Choose the optimum location for siting of a UV system by choosing a place with the **lowest ambient light reading** i.e. the measurement which is furthest to the left in the Red zone.

Note: that if you are unable to find a low ambient light reading, a higher wattage system will be required to compete with the high levels of surrounding light. Different times of day may produce different readings according to the amount of sunlight present.

**Note:**

If for any reason the buttons are pressed in the wrong order, wait 20-30 seconds for the meter to switch off, the sequence may then be restarted.

Specifications	
Dimensions:	120 x 46.5 x 21mm
Weight:	65 grams (2.3 oz) including Batteries
Operating temperature:	0 to +45°C
Operating humidity:	0% to 80% RH, Non Condensing
Half Power Viewing Angle:	+/- 25°
Battery type:	2 x AAA alkaline cells
Battery life:	approximately 35 hours of continuous use
Early warning of the need for battery replacement is displayed by the 2 LEDs at each end of the scale flashing on and off simultaneously.	

The PestWest **UV-AMeter** is factory calibrated and is not user-adjustable. It is warranted for 3 years from the date of purchase for parts and labor providing it is not damaged in any way, tampered with or misused. The **UV-AMeter** is intended solely for use with UV flying insect light systems. It should NOT be used for other purposes e.g. as a means of monitoring the strength of the sun, with sun beds or with any other source of ultraviolet light.

Ensure that the aperture is kept clean at all times and avoid exposure to abrasive and corrosive substances. Do not use a solvent to clean the case or aperture.

