

# LIGHTSCOUT<sup>®</sup>

## UV Light Meter

### PRODUCT MANUAL

Item # 3414F



***Spectrum<sup>®</sup>***  
***Technologies, Inc.***

Thank you for purchasing a Field Scout™ 3414F Ultraviolet Light Meter. This manual describes the features and operation of the meter.

### **Using the Meter**

1. Turn the dial clockwise to the “ON” position.
2. Hold the meter vertical for accurate readings.
3. Turn the meter off after use to conserve battery power.

### **Changing the Battery**

The Field Scout Light Meters use a standard 9V battery. To change the battery:

1. Remove the two screws on the back of the meter.
2. Lift the back from the bottom of the meter.
3. Remove the old battery from the connector, and snap the new battery in its place. Set the battery into the front half of the case.
4. Connect the front and back of the case at the top (by the sensor).
5. Close the case and tighten the two screws.

### **Accuracy**

The Field Scout Light Meters are accurate to  $\pm 5\%$ . Cosine correction is accurate to  $\pm 3\%$  at  $45^\circ$ , and  $\pm 7\%$  at  $80^\circ$ .

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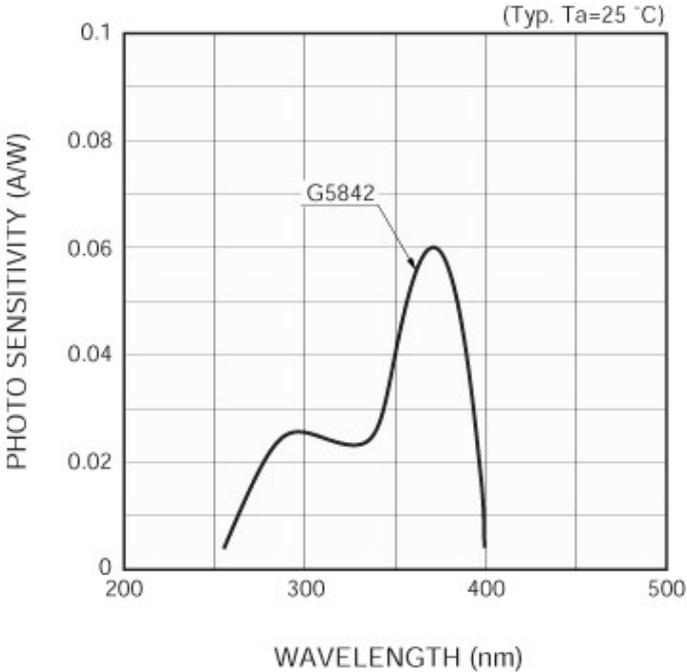
For customer support, or to place an order,  
call Spectrum Technologies, Inc. at  
(800)248-8873 or (815) 436-4440  
between 7:30 am and 5:00 p.m. CST  
FAX (815)436-4460  
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Spectrum Technologies, Inc  
12360 S. Industrial Dr. East

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A quantum is the amount of energy possessed by a photon. The Field Scout Ultraviolet Light Meter is calibrated to display the intensity of ultraviolet light in the 250-400 nm wavelength range in units of  $\mu\text{mol m}^{-2} \text{s}^{-1}$  (the number of photons in units of micromoles, striking an area one meter square each second). The meter displays 0-199.9  $\mu\text{mol m}^{-2} \text{s}^{-1}$ .

The following chart displays the spectral response of the Ultraviolet Light Meter.



# WARRANTY

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This product is warranted to be free from defects in material or workmanship for one year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident, or unauthorized modifications, or to incidental or consequential damages beyond the Spectrum product. Before returning a failed unit, you must obtain a Returned Materials Authorization (RMA) from Spectrum. Spectrum is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company.



This equipment has been manufactured for  
Spectrum Technologies, Inc.  
12360 S. Industrial Dr. East  
Plainfield, IL 60585 USA

The Manufacturer's **DECLARATION OF CONFORMITY** is on file at the above address, and certifies conformity to the following:

Model Number: 3414F  
Description: UV Light Meter  
Type: Electrical Equipment for Measurement, Control, and Laboratory Use  
Directive: 2004/108/EC  
Standards: EN 61326-1 (2006)  
CISPR11  
EN 61000-4-2 (1995/A1:1998/A2:2001)  
EN 61000-4-3 (2006)

# ***Spectrum<sup>®</sup>*** ***Technologies, Inc.***

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