



## INTRODUCTION

The UVKEY™ is a ultraviolet UVC radiometer optimized for 254 nm UV germicidal measurement in applications requiring high control of UV energy (dose) measurements. Targeted applications include hospitals, medical offices, long term care facilities and research.

## UVKEY FEATURES

- Single button operation which makes it easy to use
- Small size makes it easy to attach and minimizes shadowing of an area
- Provides accurate, NIST traceable numerical display of the dose
- Eliminates color interpretation by the user and lot-to-lot variations associated with radiochromic films
- UVKey is an affordable opto-electronic solution that provides excellent matching and repeatability, instrument-to-instrument, source to source and run-to-run
- The UVKey is IP67 sealed to protect it from dust and fluid splashes
- Subscription plans available





The EIT UVKey can be used to easily confirm the numerical dose value of UVC in an operating room (left) and in high touch patient areas such as a bed rail (above)

## UVKey Product Specifications

Feature	Description
Full Scale Operating Range	10 mW/cm <sup>2</sup>
Display Resolution / Threshold	1 μW/cm <sup>2</sup> / 15 μW/cm <sup>2</sup> (Approximately)
Displayed Energy Value	Values < 1 Joule (0.001-999.9 mJ/cm <sup>2</sup> ) displayed in mJ/cm <sup>2</sup> Values ≥ than 1 Joule (1.000-999.9 J/cm <sup>2</sup> ) displayed in J/cm <sup>2</sup>
Spectral Response	245-265 nm minimum, Spectral out of band blocking of Optical Density (OD) > 4 average
Spatial Response	Approximately Lambertian (Cosine)
Accuracy	Typically, ± 5% or better; ± 10% of reading plus ±0.2% of full scale
Repeatability	Typically, better than 0.5%; <1% maximum
Calibration	Calibration on low pressure mercury source, NIST Traceable
Sample Rate	1 Hz (One reading/second)
Display-Interface	Single button operation 4 Digit LCD display of energy (mJ or J/cm <sup>2</sup> ), floating decimal point
Operating Life Time / Shelf Life	6 Months from user initialization / 1 Month
Calibration Period	6 Month (recommended) or 500 Joules/cm <sup>2</sup> (maximum)
Temperature Ranges	Operating: +10°C - +50°C / Storage: 30°C - +70°C
Dimensions/ Weight	Unit size 2.0" x 1.5" x 0.5" (50.8 x 38.1 x 12.7 mm) / 0.7 oz. (19.8 grams)
Battery/ Materials/ Electronics	Lithium Manganese Dioxide Non-Rechargeable/ Thermoplastic Polymer
Electronics / Environmental	IP67 sealed case/ RoHS3 compliant



The UVKey was tested and passed each of the following standards:

- FCC Radiated Emissions Part 15.109 ICES-003: 6.2
- 2014/30/EU: Electromagnetic Compatibility
- IEC 61326-1: 2012

### ABOUT EIT 2.0 LLC

EIT 2.0 LLC was formed in 2022 under the same ownership and key management team to focus and accelerate the development of EIT's proprietary UV measurement products. Originally established in 1977, EIT has provided engineering & contract electronic manufacturing services (EMS) for medical, industrial, analytical instrument, telecommunications and aerospace customers. EIT's UV measurement products which include radiometers and on-line measurement systems have been sold worldwide since 1986. Over 100,000 EIT products have been sold to measure LED, broadband and UV germicidal sources.

**For more information contact EIT or:**

Blaze Technology Pte Ltd  
33 Ubi Ave 3, #04-23 VERTEX  
Singapore 408868  
Tel: +65 6270 2188  
Fax: +65 6270 9188  
Email: sales@blazeasia.com  
www.blazeasia.com

**EIT Products are designed and manufactured in the USA.  
Product Specifications Subject to Change without Notice**

UVKEY SAL-B1009 Rev 01.00 January 2023