

# UVA, UVC Light Meter with Data Logging SD Card



HHUV254SD



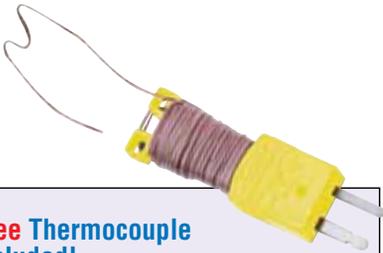
- Measures Light Intensity
- Two Automatic Range Selections
- J/K Thermocouple Input
- 2 GB SD Card Included
- UVA and UVC Probes Included
- Real Time Data Logger
- Large Backlit LCD Display
- MAX/MIN Function
- Auto Power-Off
- Hard Carrying Case Included

Many industrial and commercial applications require or can benefit from measurement of the intensity of UVA and/or UVC light. Among them are welding (to minimize exposure to "blue light" radiation), UV sterilization of food, photochemical matching, erasure of electrically programmable read-only memory (EEPROM) chips, production of graphic arts products, exposure of photoresists, and curing of inks, adhesives and coatings.



HHUV254SD.

2 GB SD card (included).



**Free Thermocouple Included!**  
 This model includes a free 1 m (40") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy. Order a Spare! Model No. SC-GG-K-30-36

TRODEX's HHUV254SD has the performance and features needed to satisfy the most demanding aspects of these applications. For example, it combines the capabilities of UVA (black light in the long-wave 365 nm band) and UVC (short waves in the 254 nm band) measurement in one instrument. The meter also can measure temperature with a Type K or J thermocouple. A UVA probe and a UVC probe are supplied with the instrument. Because it is microprocessor-based, the HHUV254SD data logger can make full use of the portability, reliability

and large storage capacities that SD memory cards offer. Measurements of light intensity or temperature can be made automatically at any of 11 sampling rates between one second and one hour. After time-stamping and storing the measurements on an SD card plugged into the instrument, the user can remove the card and transfer the measurements to a laptop or desktop computer either directly or via a USB card reader. The HHUV254SD has a backlit 2 1/2" diagonal display and is powered by 6 "AA" alkaline batteries or an optional 9 Vdc AC adaptor.





## Specifications

**Display Type:** LCD with green backlight

**Display Size:** 52 x 38 mm (2.05 x 1.5")

**UV Light Types Measured:** UVA, UVC

**Measurement Range:** 240 to 390 nm

**Measurement Accuracy:**  $\pm 4\%$  of full scale reading + 2 digits

**Full-Scale Autoranges:** 2 mW/cm<sup>2</sup> and 20 mW/cm<sup>2</sup>

**Storable/Recallable Readings:**

Max, min

**Data Logging Sampling Time:**

1 sec to 1 hr

**SD Card Capacity:** 1 to 16 GB

**Settable Parameters:** Date, time, auto power off, beep sound, temperature unit ( $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ ), sampling time, thermocouple Type (K or J), decimal point or comma

**Operating Temperature:** 0 to 50 $^{\circ}\text{C}$  (32 to 122 $^{\circ}\text{F}$ )

**Operating Relative Humidity:** 0 to 85%

**Thermocouple Input Ranges and Accuracy:**

**Type K:**

-50 to 1300 $^{\circ}\text{C}$  ( $\pm 0.2\% + 0.5^{\circ}\text{C}$ )

-50.1 to -100 $^{\circ}\text{C}$  ( $\pm 0.2\% + 1^{\circ}\text{C}$ )

-58 to 2372 $^{\circ}\text{F}$  ( $\pm 0.2\% + 1^{\circ}\text{F}$ )

-58.1 to -148 $^{\circ}\text{F}$  ( $\pm 0.2\% + 1.8^{\circ}\text{F}$ )

**Type J:**

-50 to 1200 $^{\circ}\text{C}$  ( $\pm 0.2\% + 0.5^{\circ}\text{C}$ )

-50.1 to -100 $^{\circ}\text{C}$  ( $\pm 0.2\% + 1^{\circ}\text{C}$ )

-58 to 2192 $^{\circ}\text{F}$  ( $\pm 0.2\% + 1^{\circ}\text{F}$ )

-58.1 to -148 $^{\circ}\text{F}$  ( $\pm 0.2\% + 1.8^{\circ}\text{F}$ )

**Power Supply:** 6 Alkaline "AA" batteries or optional 9 Vdc AC adaptor

**Power Consumption:**

- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

**Dimensions:**

**Meter:** 177 H x 68 W x 45 mm D (6.97 x 2.68 x 1.77")

**UVA Probe Head:**

45 (diagonal) x 32 mm L (1.77 x 1.26")

**UVA Probe Handle:**

24 (diagonal) x 125 mm L (0.94 x 4.92")

**UVC Probe:**

38 (diagonal) x 25 mm L (1.50 x 0.98")

**Weight:**

**Meter:** 351 g (12.38 oz)

**UVA Probe:** 100 g (3.53 oz)

**UVC Probe:** 103 g (3.63 oz)

## To Order

Model No	Description
HHUV254SD	UVA, UVC light meter with data logging SD card

## Accessories (Field Installable)

Model No	Description
2GB-SD	Spare 2 GB SD card
ADAPTER-SD	AC power adaptor
SW-U101-WIN	Data acquisition software with RS232 cable
RS232-SD	Spare RS232 interface cable

Comes complete with UVA probe, UVC probe, probe cover, 6 "AA" batteries, hard carrying case, 2 GB SD memory card, Type K thermocouple and operator's manual.