

**Optical and UV Measurement Meters**

The measurement of the UV irradiance is the most effective way to monitor the useful life of any UV light source. UVP meters ensure maximum operating efficiency of an ultraviolet system. The durable, plastic housings of the meters are impact resistant and can withstand sustained use.

**UVX Digital Radiometers**

This digital UVX Radiometer is used with one of the three interchangeable sensors for measuring shortwave (254nm), longwave (365nm) and midrange (302nm) UV wavelengths.

- Choose from three sensors: UVX-25 shortwave, UVX-32 midrange or UVX-36 longwave
- The UVX's range switch provides selection from three intensity ranges:
  - 0 to 20 mW/cm<sup>2</sup>
  - 0 to 2000 μW/cm<sup>2</sup>
  - 0 to 200 μW/cm<sup>2</sup>
- The 10:1 attenuator extends the reading range up to 200mW/cm<sup>2</sup>
- The UVX Radiometer is powered by a 9-volt battery for up to 120 hours
- A port for a chart recorder allow for continuous monitoring

**UVX Radiometer**  
Select from three UV sensors.



Dimensions: 6.2L x 2H x 3.6W in.  
(157 x 51 x 91 mm)  
Sensor Cable Length: 3 feet (0.9 m)  
Weight: 9.4 oz (0.3 kg)  
Display: 3.5 digit LCD  
Operating Environment:  
Temperature: 0 to 50°C  
Humidity: 5% to 90% RH

UV Meters/  
Sensors are calibrated at UVP; recalibration recommended every six months.

Ordering Information	
<b>UVX Radiometer</b>	97-0015-02
<b>10:1 Attenuator</b>	98-0035-01
<b>9V Battery</b>	45-0012-01
<b>UVX-25 Sensor</b> Calibration Point: 254nm Bandpass: 250-290nm	97-0016-01
<b>UVX-31 Sensor</b> Calibration Point: 310nm Bandpass: 280-340nm	97-0016-04
<b>UVX-36 Sensor</b> Calibration Point: 365nm Bandpass: 335-380nm	97-0016-02

**J-Series Analog UV Meters**

J-Series analog UV Meters are photovoltaic devices for accurate and repeatable readings of shortwave and longwave UV light sources.



**J-221 and J-225 UV Meters measure UV sources.**

Dimensions:  
3H x 3D x 3W in. (76 x 76 x 76 mm)  
Weight: 9 oz (0.25 kg)

Ordering Information	
<b>J-221</b> Longwave Meter 365nm UV	97-0003-01
<b>J-225</b> Shortwave Meter 254nm UV	97-0004-01

- Self-powered for maximum portability
- Two scales for low and high intensity readings
- For remote readings, a three foot (1.2m) cord connects the sensor to the meter
- An infrared filter assures accurate readings when measuring light sources producing infrared radiation
- The 5X attenuation screen can be used for very high intensity lamp measurements
- All meters and sensors are certified traceability of calibration. Calibration is recommended every six months and is certified to meet UVP's published standards and is traceable to NIST (or National Physical Laboratory in Europe)
- **J-221** Meter measures the intensity of 365nm longwave UV. The sensor is sensitive within a range of 300-400nm with a peak sensitivity at 365nm. Intensity readings are 0-1200 μW/cm<sup>2</sup> (A Scale) and 1000-6000 μW/cm<sup>2</sup> (B Scale). J-221 Meter complies with MIL STD 45662-A
- **J-225** Meter measures the intensity of 254nm shortwave UV. The sensor is sensitive within a range of 220-280nm with peak sensitivity at 254nm. Intensity readings at 0-2400 μW/cm<sup>2</sup> (A scale) and 2000-12000 μW/cm<sup>2</sup> (B Scale)

## Multi-Sense™ MS-100 Meter

The MS-100 Meter is an optical radiometer designed to accurately measure UV, visible light, temperature and magnetic fields.

- Ideal for determining measurement levels in a wide variety of applications such as NDT, sterilization and semiconductor
- This easy-to-use portable, handheld meter is designed with interchangeable sensors
- Results are clearly shown on the LCD which also indicates when the batteries are low
- Battery (9V) life is typically 400 hours
- Optical and magnetic field sensors have accuracy set to  $\pm 5\%$ ; repeatability at  $\pm 1\%$
- Temperature accuracy of  $\pm 0.2\%$   $^{\circ}\text{C}$  from  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

Meter  
Dimensions:  
5.9L x 3.1W x  
1.2H in. (150 x  
80 x 30mm)

*MS-100 Meter shown  
with variety of sensors*



Ordering Information			
Meter or Sensor	Part Numbers	Range	Applications
<b>MS-100 Meter</b>	97-0100-01		
<b>MS-125</b> UVC Sensor (254nm)	97-0099-01	0.00 to 19.99 mW/cm <sup>2</sup>	Sterilization and EPROM erasure
<b>MS-131</b> UVB Sensor (310nm)	97-0099-02	0.00 to 19.99 mW/cm <sup>2</sup>	Midrange UV applications including biotechnology studies
<b>MS-136</b> UVA Sensor (365nm)	97-0099-03	0.00 to 19.99 mW/cm <sup>2</sup>	Non destructive testing
<b>MS-155</b> Visible Sensor (400-700nm)	97-0099-04	0.00 to 1999 lux	NDT and visible output from lamps

Calibration of meters/sensors is recommended every six months at UVP or authorized facility.

## Ultraviolet Applications

**Longwave UV - 365nm** **Laboratory/Research:** Bacterial Identification \* Specimen Staining \* Gel Electrophoresis \* Chlorination \* Fluorochemistry \* Pesticide Analysis \* Fluorescence Photography \* Titration Processes \* TLC \* Nucleic Acid Visualization \* Genetic Experiments \* Virology **Sanitation:** Aflatoxin Detection \* Rodent Contamination and Lice Detection \* Detection of Food Contamination \* Milkstone Inspection \* E-Coli Water Testing \* Culture Fluorescence **Medical:** Medical Diagnosis \* Dermatology \* Cosmetology **Education:** Fluorescence Demonstration and Analysis **Industrial:** Non-Destructive Testing \* UV Curing \* Magnetic Particle Inspection \* Inspection of Conformal Coatings \* Leak Detection **Criminology:** Detection of Altered Documents \* Counterfeit Currency Detection \* Signature Verification \* Forensic Applications \* Coding/Marking \* Arson Investigation \* Lab Testing \* **Electronics:** Clean Room Inspection \* Epoxy Coat Inspection **Miscellaneous:** Examination of Fine Art \* Archaeology \* Entomology \* Photoresist Exposure \* Philately \* Re-Admission Control \* Mineralogy **Automotive:** Leak Detection \* Windshield Repair

**Midrange UV - 302nm** **Research:** Gel Electrophoresis \* Gel Viewing \* Optical Lab Measurements \* **Industrial:** UV Curing \* Gradient Sampling \* Solar Experimentation \* **Medical:** Phototherapy \* Dermatological \* **Miscellaneous:** Mineralogy \* Art and Museum Inspection

**Shortwave UV - 254nm** **Criminology:** Document Examination \* Field Clues \* Arson Investigation \* Toxicology **Education:** Fluorescence Demonstration and Analysis **Laboratory/Research:** Fluorochemistry \* Mercury Detectors \* Optical Alignment \* Pesticide Analysis \* Polymer Curing \* Sterilization \* DNA Analysis \* Chromatography \* Biochemical Testing \* Electrophoresis \* TLC \* Mutation \* Mycology \* Nucleic Acid Visualization \* Photochemistry \* Photo Disassociation \* **Miscellaneous:** Air Pollution \* E-Coli Testing \* Alumina Testing \* Archaeology \* Fluorescence Photography \* Mineralogy \* Philately

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