

# SPECTROLINE®

## AccuMAX™ XRP-3000 Advanced Digital Radiometer/Photometer Kit

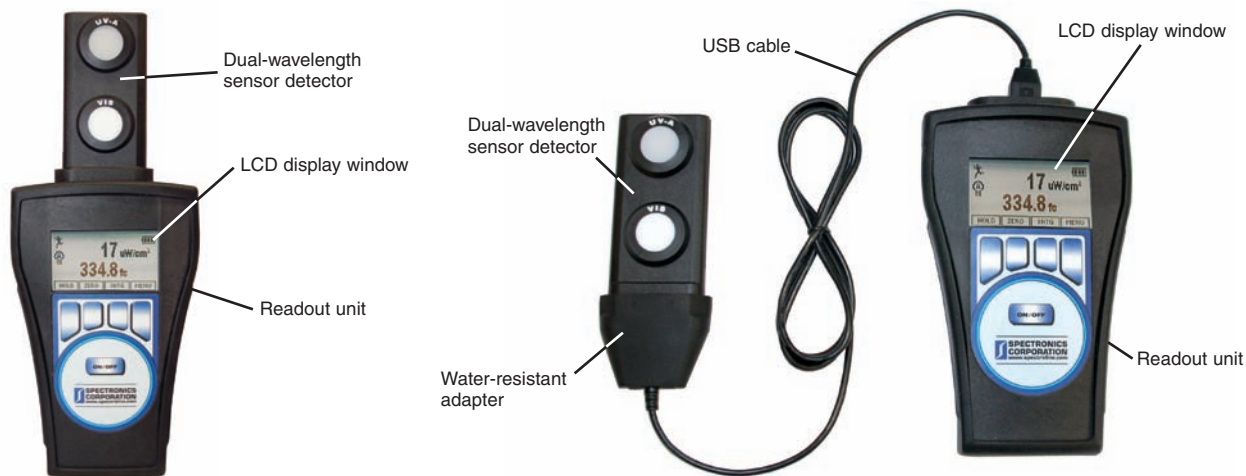
Single detector with dual sensors measures **both** ultraviolet and visible light.  
Complies with MIL and ASTM specifications for MPI and FPI.



**Specially  
Engineered  
for NDT  
Applications**

### Features

- Microprocessor-controlled readout unit with dual-wavelength sensor detector
- Superior bandpass interference filter
- Choice of direct or USB connection between sensor detector and readout unit
- Excellent cosine response
- User-defined power save and automatic shutoff
- Large, easy-to-read LCD screen
- Sealed sensor housing and USB connection with water-resistant adapter



**Allows Direct or USB Cable Detector Connection**

### Accurate

The AccuMAX™ XRP-3000 radiometer/photometer kit uses a dual-wavelength UV-A/VIS sensor detector to measure both ultraviolet and visible light. Featuring automatic zeroing, integration and signal hold, the unit provides accurate readouts for UV, visible irradiance or radiance. The LCD readout features  $\pm 0.2\%$  linearity with the sensor sending the linearity correction data to the readout unit during initial power up. To ensure consistent results, sensors are designed with superior bandpass filters while optical stacks are assembled in Class 100 clean workstations. For precise spectral coverage, high-quality interference filters are used to resist degradation.

### Durable

The rugged meter housing features a removable, rubber protective boot for better grip and to help prevent accidental breakage. It also provides superior protection against moisture contamination, shock and humidity. In addition, the XRP-3000 features a liquid- and water-resistant, sealed sensor housing with a special self-sealing ring to help eliminate light leakage.

### Simple Operation

The XRP-3000 meter's microprocessor is the heart of its simplicity. Just four pressure-sensitive buttons on the readout unit's membrane keypad offer an extensive array of advanced functions. For example, to subtract ambient light, the user need only press the "ZERO" button. This activates autozeroing, sets the value to 0 and displays relative readings of subsequent measurements. "HOLD" freezes the display thus obtained, while "INTG" displays the average UV intensity after integrating the UV energy over time. These functions and other user-selectable parameters are easily accessible through the software's main and sub menus.

### Reliable

The XRP-3000 radiometer is carefully quality-controlled to ensure that each unit has up-to-date calibration and meets stringent measurement requirements. Housed in a durable polycarbonate case, it features dependable solid-state electro-optical circuitry for long, trouble-free operation.

### Portable

The XRP-3000 is compact, lightweight and battery-operated for convenient use in the factory, field or any other location where measurements need to be taken. A slide-out panel allows for easy replacement of the unit's 9-volt batteries.

### Versatile

The XRP-3000 offers extreme flexibility in the workplace. For technicians performing radiographic examinations, the XS-555/L luminance sensor detector is available as an accessory to provide film viewer output measurements in  $\text{cd}/\text{m}^2$ ,  $\text{cd}/\text{ft}^2$  or fL.

## AccuMAX™ XRP-3000 Specifications

### Readout Unit (XR-1000)

<b>Resolution</b>	4-digit autoranging display
<b>Screen</b>	128 x 64 dot pixel chip on glass STN transmissive monochrome LCD—2.8 in (7.1 cm) diagonal illuminated (backlit)
<b>Sampling Rate</b>	7.5 Hz (single sensor) 15 Hz (dual sensor)
<b>Read Update</b>	2 Hz
<b>Overall Accuracy</b>	Better than $\pm 5\%$ with reference to NIST standards
<b>Temperature Coefficient</b>	$\pm 0.025\%/^{\circ}\text{C}$ (0 to $50^{\circ}\text{C}$ )

### Dual UV-A/Visible Sensor Detector (XDS-1000)

<b>Irradiance Range</b>	
• UV-A Sensor	0–100 $\text{mW}/\text{cm}^2$
• Visible Sensor	0–5,300 lux (0–500 fc)

### Power Requirements

<b>Battery Operation</b>	Two non-rechargeable 9V alkaline battery cells are included as standard
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### Dimensions

<b>Readout Unit</b>	
• Length	7.75 in (19.7 cm)
• Width	4.25 in (10.8 cm)
• Thickness	1.25 in (3.2 cm)
• Weight	0.8 lb (360 g)

### Sensor Detector

• Length	4.75 in (12.1 cm)
• Width	2.0 in (5.1 cm)
• Thickness	7/8 in (2.2 cm)
• Weight	0.22 lb (100 g)

### USB Cable

	5 ft (1.5 m)
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### Kit Includes:

• Water-resistant USB cable with adapter	XCB-100
• Rubber boot	XRB-100
• Carrying case	XCC-100



## SPECTRONICS CORPORATION

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