



# ILT950

USB Portable Spectroradiometer

*The most cost-effective, fully integrated CCD-based spectroradiometer family available.*

At home on the production floor as well as in the laboratory, the ILT950 combines accuracy, ease of use, and a wide array of features all in a rugged, compact portable design. The ILT950 comes as a turn-key package for making the widest array of standard irradiance and color measurements straight out of the box and is complete with input optics, software, cables, instruction manual, and irradiance calibration. A long list of optional accessories can tailor the ILT950 to almost any application.

## MODEL SPECS: ILT950

<b>Spectral Range:</b>	250 - 1050 nm
<b>Stray Light:</b>	0.1%
<b>Resolution:</b>	1.4 nm
<b>Radiometric Accuracy:</b>	
250 - 350 nm:	±11% ★
>350 - 400 nm:	±5.0%
>400 - 900 nm:	±3.3%
>900 - 1050 nm:	±5.0%
<b>Focal Length:</b>	75 mm
<b>Dynamic Dark Correction:</b>	yes (DSP)
<b>Non-Linearity Calibration:</b>	yes
<b>CCD Array:</b>	Sony ILX554B
<b>Temperature Range:</b>	15 - 40°C
<b>Input/Output:</b>	Extended I/O Digital and Analog Signal Processing External Sync. External Trigger
<b>Size:</b>	1-3/5" H x 5" W x 7" L

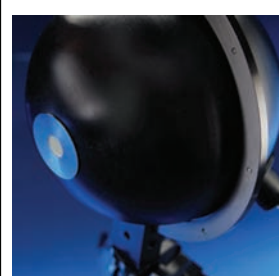
## OPTIONAL INPUT OPTICS



**RADIANCE OPTIC**  
Quickly change your ILT950 from irradiance to radiance measurements with this optional input optic. This quartz lens has a geometrically accurate 2 degree FOV. May be used with the optional A706 spot finder alignment guide.



**COSINE CORRECTORS**  
Several cosine correctors are available in addition to our standard W2 Cosine Corrector including RAA4 right angle and miniature models to tailor the ILT950 to your unique application.



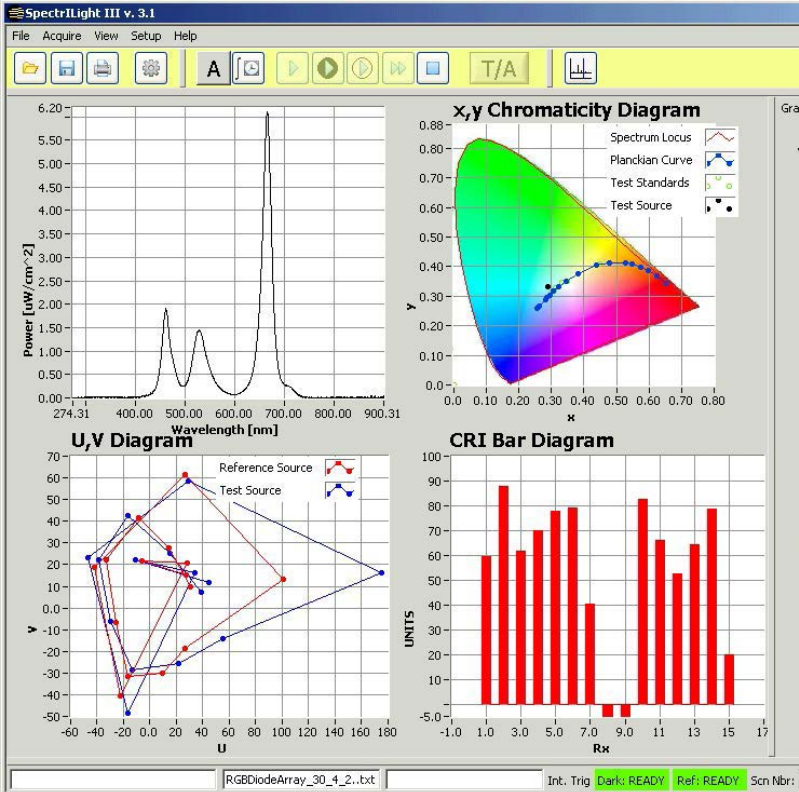
**INTEGRATING SPHERES**  
The INS250 10-inch sphere has a built-in calibrated lamp and a fully redesigned, more flexible mounting system. New 2", 4", 6" and 12" diameter spheres are also available.

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**InternationalLight**  
TECHNOLOGIES

★ Consult factory for more details on UV accuracy



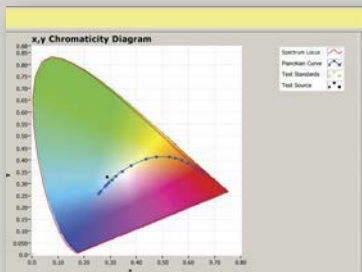
# SpectriLight III

ILT950 Control & Analysis Software

*SpectriLight™ III is a LabView™ based software package for Windows that allows you to acquire spectral and color data. Analysis of the data is now calculated instantly within the same program - no exporting required! The NEW version of Spectri-Light™ III provides easy setting of all operating controls of the ILT950 spectrometer with an integrated data analysis package (previously an Excel™ export module) making your spectral analysis fast and simple. Wavelength range, integration time, scan average and other controls can be easily set through pop up windows, menus and toolbars. Absolute Irradiance and chromaticity are calculated instantly.*

## SPECIFICATIONS

- ◆ Automated time line measurements
- ◆ Upload multiple calibration files
- ◆ Integration Time: 1 mS to 2 S
- ◆ Scan Average: 1 to 999
- ◆ External Trigger
- ◆ Peak Find
- ◆ Enhanced scaling and zoom features including movable vertical cursors
- ◆ Export to ASCII text, report, or directly into Excel. Save screens/scans in multiple formats including .bmp, .jpg, and .png
- ◆ Powerful import data wizard can even import data from other spectrometers!



## REAL-TIME ANALYSIS

- ◆ Irradiance: Total, Visible, UVA, UVB, UVC and photopic data.
- ◆ Selectable bandwidth for irradiance, power, and radiance (requires additional hardware and calibration options)
- ◆ Chromaticity analysis: x, y, u, v coordinates and display in CIE color spaces.
- ◆ Dominant and complementary wavelength and color purity.
- ◆ General Color Rendering Index (CRI) and 15 special color rendering indices.
- ◆ Correlated Color Temperature (CCT) and Duv.

Requires: Windows XP, 7; Pentium II 300 MHz or better

C, C++, and Visual Basic DLL's as well as custom DLL's are also available. Please contact our software engineer at [ilsupport@intl-lighttech.com](mailto:ilsupport@intl-lighttech.com) for more information.



**InternationalLight**  
TECHNOLOGIES

NIST Traceable Light Measurement Systems

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## SpectriLight III - Version 3.5 - New Features:

1. Calibration file is saved on eeprom.
2. Timeline Feature - Exports up to 250 scans into one Excel file for easy analysis.
3. Automatic Integration - Automatically evaluates reference scan and sets integration time.