SpectraWiz® Features

SpectroRadiometer measurements:

Irradiant watts per square meter per nm
Irradiant microwatts per sq centimeter per nm
Illuminant LUX - lumens per sq meter per nm
Illuminant footcandles - lumens per sq foot /nm
Moles per square meter per nm per second as
PAR photosynthetic active radiation 400-700nm

Power Spectral Density with selectable regions
Radiant & Luminous FLUX with selectable area
LED xy chromaticity, dominant λ, purity, mcd
Color rendering graph with rapid sample logging
Correlated color temperature CCT

SpectroRadiometric Calibrations:

Perform irradiance calibrations for UV-VIS-NIR

Use SL1-CAL lamp or your NIST traceable lamp

SpectroChemistry measurements:

Analyte concentrations via cuvette & dip probes
PLS calibration method save & recall
Concentration display with rapid sample logging

UV Monitor measurements:

UVa, UVb, UVc, UV a/b ratio, Total Irradiance
Power UVb, Power VIR, Te Erythema minutes
U.S.FDA & European tanning algorithms
Real-time display with rapid sample logging

SpectroColorimeter measurements:

CIELAB L* a* b* for reflectance/transmittance
1931 xy chromaticity diagrams for Radiometery
Delta E* comparator signals color differences
Save and load color standards for Delta E* signal
Color rendering graph with rapid sample logging
Supports master and standard white referencing

XYZ tri-stimulus, xy chromaticity, chroma, hue

Spectroscopy measurements & support:

Transmission %T, Absorbance AU, Reluctance
Episodic data capture & Time series analysis
Dual and multi-beam lamp drift correction
Single-beam relative and absolute drift correction
Spectral ratio display with selectable wavelengths

First and second spectral derivatives
Export spectra to Excel, Matlab, and Galactic
Open, graph, zoom, and print up to 8 spectra
Up to 8 spectrometers display on a single graph

Optical spectrum analysis tools:

Display FWHM, centroid, and peak wavelengths
Power spectral density via manual cursor setup
Zoom x-axis, zoom xy window, set or y-autoscale
View y-axis as log or linear scale
Optical trigger event setup for spectral capture
Episodic capture can save via optical trigger event