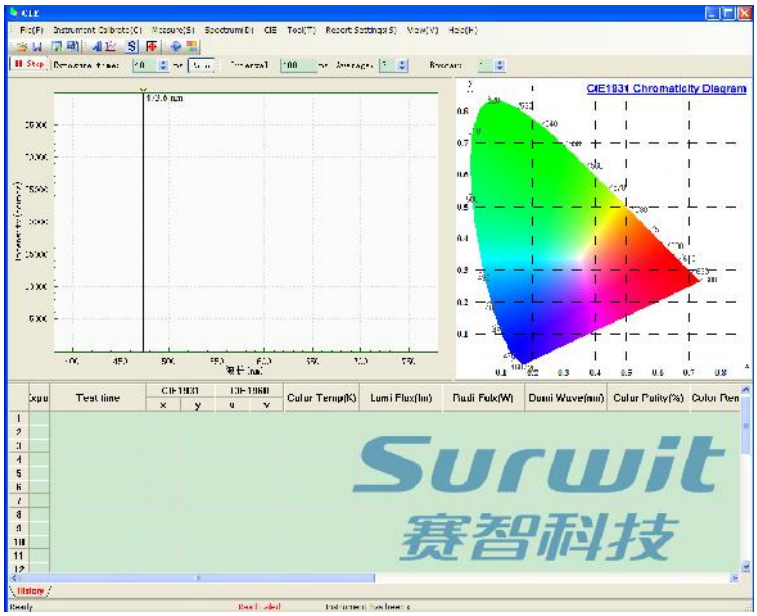
Surwit

3000 Vis Spectrometer

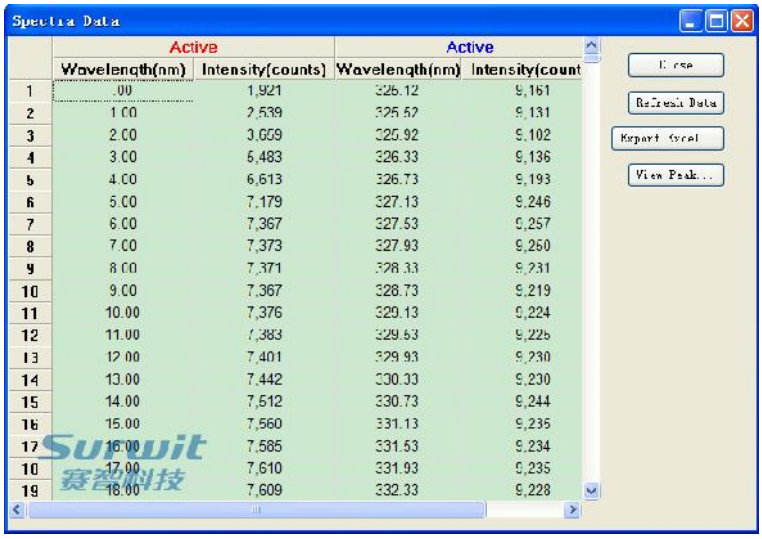
S3000-VIS Vis a Vis spettrometro realizzato da Surwit Technology Inc., questo spettrometro è progettato per l'analisi dello spettro a LED, lampade a risparmio energetico, lampade fluorescenti e molti altri campi.

S3000-VIS	
Power supply	5V DC provided by PC USB port
Wavelength range	330 nm- 1100 nm
Detector	TCD 1304 CCD
Slit	30um
Grating	600line/mm@250nm
Wavelength resolution	Depending on grating and slit, minimum to 0.2nm
S/N ratio	300:1
Scatter light	<0.1%
CCD Linearity correction	99.8%
Power consumption	128mA@5V
Communication interface	USB 1.1 or USB 2.0
A/D conversion	16 bit high precision AD
Fiber interface	SMA905
Dimension	115mm(L)*80mm(W)*40mm(H)
Weight	500 g
Minimum exposure time	3ms
Maximum exposure time	60s
Wavelength repeat error	< 0.3 nm
Wavelength absolute error	< 0.3 nm
FWHM	< 1 nm
Operating temperature	-20 °C ~ 60°C
Software	Spectra Pro

SpectraAnalysis have multiple spectra line display, multiple spectra dispose, snapshot, buffer spectra, peak-searching/valley-searching, FWHM, coordinate convert, spectra recording functions. It mainly consist by Control Window , Spectra Window and Spectra List Window. Control window used to change settings of USB data collection; Spectra Window display the current spectra or file spectra collect from USB and open spectra recording file; Spectra setting window mainly control the display style of spactra line. Text label, mouse right button spectra line move, prompt bar and mouse prompt in spectra graphic make the operation more convenient, and get the spectra line information easily. It can contract with Microsoft ,export the spectra data asExcel and Word files. The program will save the spectra as *.ssp files, double click or move file into window can open the spectra graphic.



The function use the international authority full spectrum method (Without V (lambda) error correction) to analysis spectral power distribution, chromaticity coordinates, correlated color temperature, color deviation , color tolerance, peak wavelength, color rendering index (Ra) of LED, energy-saving light source and fluorescent powder . Wavelength range is 380nm ~ 780nm. The corresponding electrical equipment can measure voltage, current, power source, power factor. The analysis and control of products are all realized by computer software, software operation is simple, and with a strong light source test and data analysis and processing function, measurement data can be exported to Excel, txt and SSP (spectral file) for a variety of file formats, very convenient for calculation and analysis.



System configuration

A. Spectrometer S2000-UV or S2000-UV/NIR

B. Software SpectraPro V3.2

C. Adjustable halogen light source or Deuterium/Tungsten light source DH02

D. Reflectivity measurement accessories

E. Standard whiteboard

F: Y type optical fiber root (SMA905 interface)