

S-TRC Series

Reflection / Penetration / Color / Thin Film Thickness
Measurement



- Multi-Channel & Multi-Measurement Mode
- Simple setup & Easy measurement
- Around 300 Material Databases
- In-line Expendable
- Affordable price & low maintenance costs
USB 2.0 / Ethernet Communication Support

PRODUCT

S-TRC Series

Reflection / Penetration / Color / Thin Film Thickness Measurement

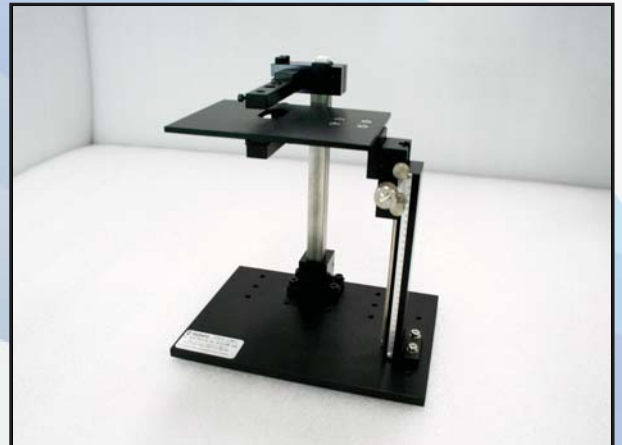


The S-TRC series is a multi-measurement device that can be implemented in a combination of functions required for a variety of measurement needs. It contains following functions.

- Thin Film Thickness Measurement
- Transmittance and reflectivity measurements
- Color measurement

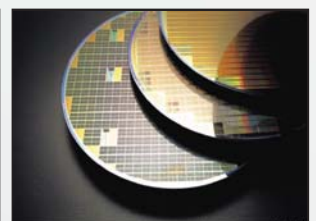
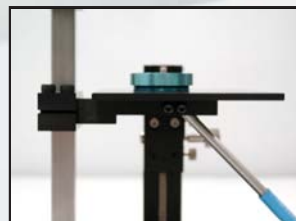
Key Features

- Multi-Measurement Mode
 - Measure reflection, transmission, color and thin film thickness simultaneously per measurement point
 - Multi-point measurement mode
 - Depending on your options, you can measure reflection, permeation, color, and thin film thickness at up to four measurement points.
 - Uniformity Analysis by Measurement Point
- Providing n, k data for various substances
- Measurement result report
- Ethernet Communication Interface
 - Fast data communication and reliable communication overcoming distance
- Additional features for in-line processes
 - External trigger function for measurement synchronization
 - Real-time monitoring of specific wavelengths in the mass production process
- Recording and Alarm Capabilities



Application

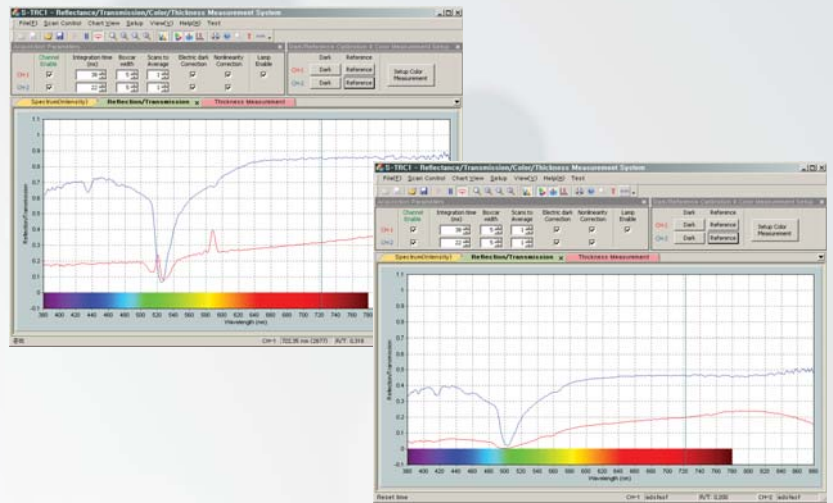
- Multi-measure
- Measuring the transmittance and reflectivity of glass/film/filter
- Simultaneous measurement of skin tissue reflectivity and penetration (for medical research)
- ITO Thin Film Thickness Measurement of Solar Cell Soda Lime Glass
- Thin film thickness measurement in various optical coating processes
- Thin film thickness measurement in semiconductor wafer process
- Measurement of optical properties and thickness of LCD Display Panels
- ITO thin film's equipment for characterization research (T, R, thickness)
- Reflections and Color Measurements of Granules
- Reflections/collar/thickness measurements of various oxides, nitrides, PR and poly-Si in the textile industry
- Measure the thickness of CRT PR film, Shadow Masks, Laser mirror, etc.
- Paint Color Analysis and Uniformity Measurement
- Biological TRC Measurement



SOFTWARE

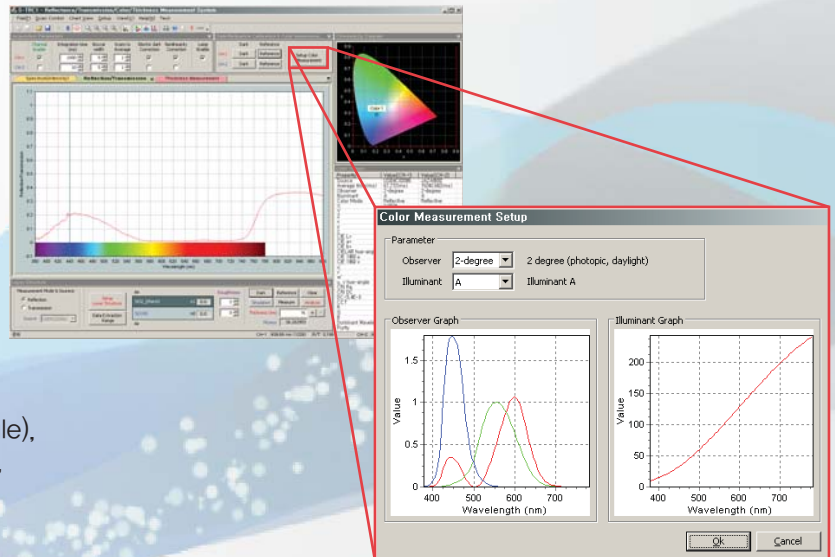
Transmittance and Reflectivity Measurements

- Comparison Analysis by Measurement Mode (Reflection/Transmission)
- Measurement and comparison analysis by multi-point (up to 4 points)
- Monitor and analyze outcome changes over time



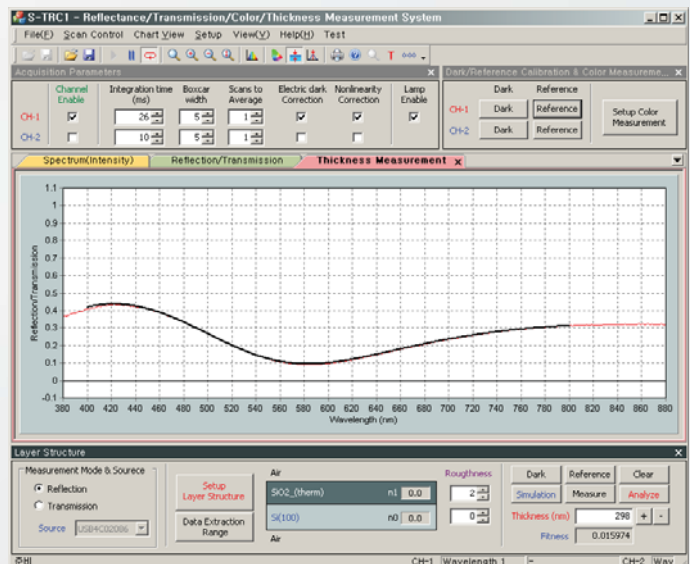
Color Measurements

- color measurement by reflection
- CIE1931 Chromaticity Diagram Table
- Multiple Observer/Illuminant options
 - 2/10-degree
 - A, B, C, D50~75, E, F1~F12
- Measurable Color Values (X, Y, Z), (x, y, z), (CIE L*, a*, b*, hue-angle), (CIE 1960 u, v), (u', v', w', u, v hue-angle), (CRI Ra, DC), CCT, (R, G, B), Dominant Wavelength, Purity



Thin Film Thickness Measurement

- Easy setup for optimal thickness measurement in a short time
- Selectable thickness measurement by reflection/transmission
- Provides n, k data for more than 300 types of materials and can store layer information
- Depending on options, multi-point simultaneous thickness can be measured.



SPECIFICATIONS

	S-TRC 2000-UV-VIS	S-TRC 2000-VIS	S-TRC 2000-UV-NIR	S-TRC 2000-NIR
Wavelength Band	400 - 850 nm	250 - 1040 nm	190 - 1100 nm	900 - 1700 nm
Measurement Range	50 nm - 20 um	10 nm - 100 um	1 nm - 100 um	100 nm - 250 um
Measurement Precision	0.1 nm	0.1 nm	0.1 nm	0.1 nm
Repetitive Error	0.3 nm	0.3 nm	0.3 nm	1 nm
Measurement Target	Translucent or translucent thin film materials and colors			
Measurement Speed	100 ms to 1s			
Measurable Type	Color, permeation, reflection, thin film thickness			



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