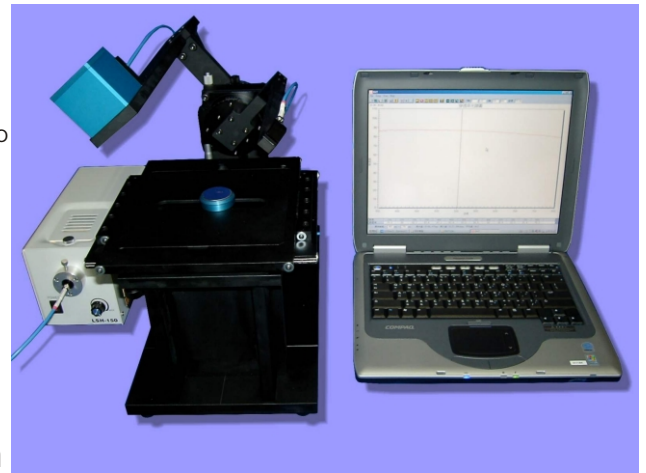


## MFS-630 ANGLE VARIABLE OPTICAL CHARACTERISTICS MEASUREMENT SYSTEM

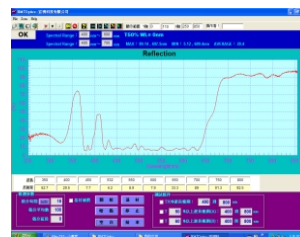
TRANSMITTANCE, REFLECTANCE, ABSORBANCE, COLOR, BSDF, FILM THICKNESS, N&K INDEX

### CAPABILITIES

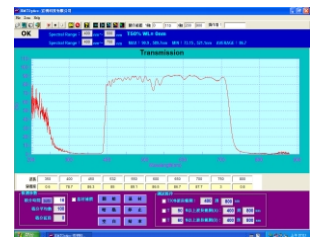
1. Measures transmittance(T%), reflectance (R%) and absorbance(abs) of sample at different incidence angle, with  $0^\circ \leq \theta_{T\%} \leq 80^\circ$  and  $5^\circ \leq \theta_{R\%} \leq 80^\circ$  and  $0^\circ \leq \theta_{abs} \leq 80^\circ$
2. Calculates reflective or transmissive CIE color space value(xyz, XYZ, L\*a\*b\* and chroma)
3. Upgrade to be a film thickness and optical constant(N&K Index) measurement system is possible, thickness measuring range from 200Å to 400,000Å
4. Offer optional linear XY Mapping Table for 2D and 3D plotting, scanning path from single points to the entire sample can be selected
5. Offer optional rotary stage for BSDF (BRDF & BTDF) measurement
6. Offer optional polarizer and analyser for polarization reflectance measurement



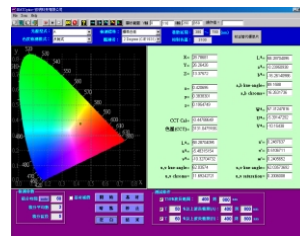
MFS-630 Optical Characteristic Measurement System



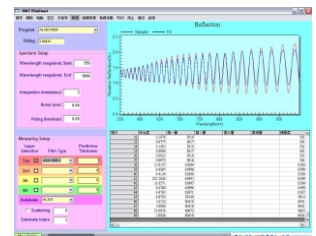
Reflectance



Transmittance



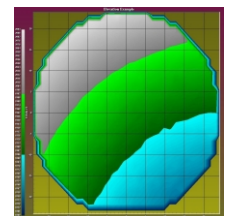
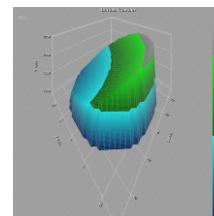
Color Space Value



Film Thickness Measurement

### COMPONENTS

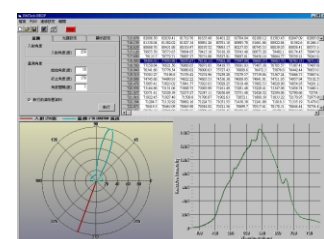
1. Fiber optics spectrometer(380-900nm)
2. Integrating sphere and Collimator modules
3. Light Source (380-900nm, Standard)  
UV-VIS, VIS-NIR, UV-VIS-NIR
4. AngleVariable Measuring Stage and 10cm x 10cm XY Stage
5. **HMT Optics** software for T%, R%, Abs and Color  
**Film Smart** software for film thickness and N&K Index
6. Computer or Notebook



2D and 3D Mapping

### APPLICATIONS

1. Optical Coating : Filters, Mirrors, Lens, Reflectors, AR
2. PLED and OLED film
3. LCD backlight module: Polarizer, Diffuser, Color filter
4. Glass, Polymer, Metals



BSDF Measurement

## Specification of MFS-630

NO	ITEM	DISCRIPTION
1.	Spectrum Range	380-900nm(Standard), Option: 250-950nm(UV Region) 800-1700nm(NIR Region)
2.	Resolution	2 nm
3.	Measuring time	1 Second
4.	Spot Size	5 mm Diameter
5.	Repeatbility	1%
6.	Spectrometer	CCD-Array Fiber Optics Spectrometer(Standard) Option: TE Cooled CCD Spectrometer PDA Spectrometer for NIR region enhance InGaAs Spectrometer for NIR region
7.	Stage	Angle changeable Measuring Stage (manual) Reflectance measuring range: 5° - 80° Transmission measuring range: 0° - 80° 10cm x 10cm XY Stage Option: Automatic XY Stage Automatic Rotatry Stage
8.	Light Source	Tungsten lamp, 380-1000nm(Standard) Option: Xenon lamp 250-850nm
9.	Collimators and Integrating Sphere	Integration Sphere and Collimator modules Option: Polarizer and analyzer
10.	Display	PC, Notebook
11.	Interface	16 bits, USB2.0/1.1
12.	Software	<b>HMT</b> Optics Transmission/Reflection/Color Measurement Software Option: <b>Film Smart</b> film thickness measurement Software

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