



Thin Film Measurement System

It is easy to be an expert with MProbe

Measurements of thin films on curved samples that are large, difficult to place on sample holder or to move (e.g. assemblies) require special probes. MP-FLVis manual probe has a soft rubber padding and can be placed directly on the product. It is connected to a measurement unit with fiber optics cable.



BACKSIDE REFLECTION

MP-FLVis probe is targeted for applications where film is deposited on relatively thin transparent substrate and there is a need to eliminate the backside reflection (e.g there may be coating on the backside).

Examples of such applications are hardcoat on eyeglass lenses, hardcoat or anti-fog coat on head/rear automotive lights (covers and lenses).

MProbeHC system

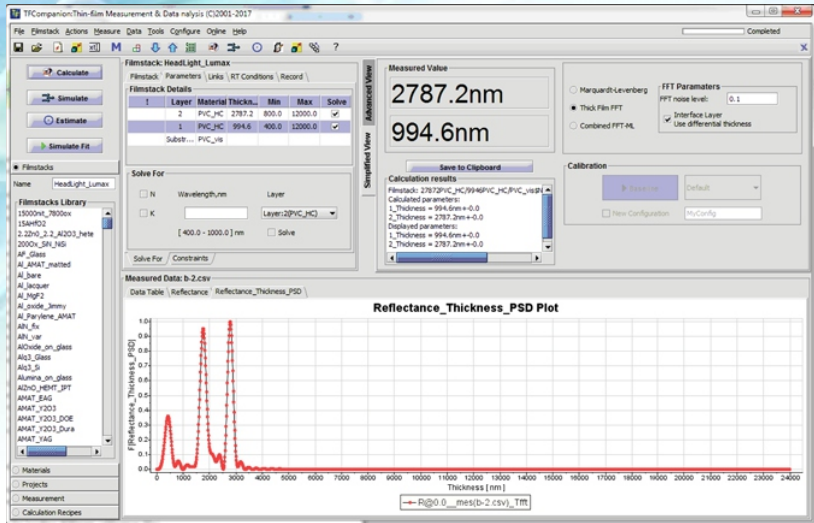
EASE OF USE

One-click measurement and analysis. Automatic adjustment of integration time. Powerful software tools that correct and optimize measured data.

| | |
|-----------------|-------------------------------------|
| Precision | 0.01nm or 0.01% |
| Accuracy | 0.2% or 1 nm |
| Stability | 0.02nm or 0.03% |
| Spot Size | 0.2mm or 0.4mm (depending on fiber) |
| Sample Size | > 25mm |
| Thickness range | 0.05 -70 μm |

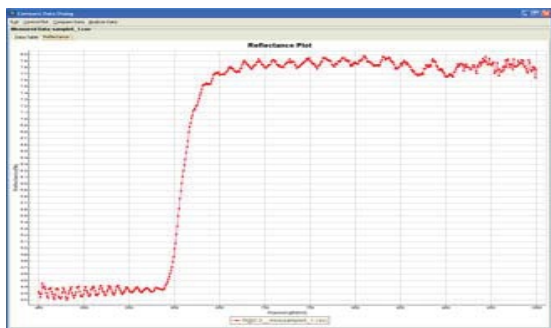
MProbe Advantage

- Standalone software included
- Remote diagnostics
- Display residual color
- Measurement history for recall and display (plots and statistics)
- Compare and evaluate multiple reflectance spectra
- Microprocessor controlled light source with 10000+ hours lifetime
- Free software update for 12 months

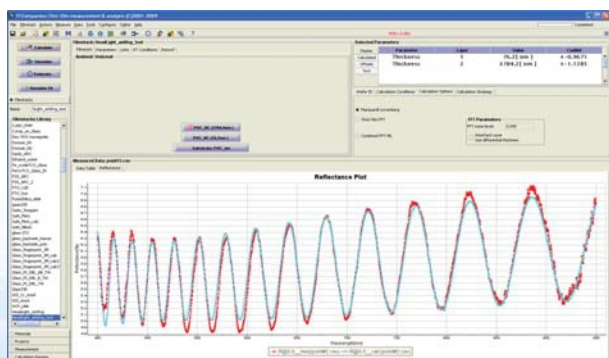


Hardcoat measurement. HC and IPL (interpenetration layer) thicknesses are determined

Specification



Measurement of HC on rear-light (red) covers



Measurement of anti-fog coating on lens

| | |
|-----------------------|--|
| Spectral range (nm) | 400-1000 |
| Spectrometer/detector | F4 spectrometer, 3600 pixels Si CCD, 16 bit ADC, 380-1100 nm range |
| Spectral resolution | <1 nm FWHM |
| Light source | 5 W Tungsten-halogen lamp (Xe filled), CT 2800° Lifetime: 10000 hrs |
| Reflectance probe | Fiberoptics (7 fibers assembly), 400µm fiber core |
| Precision | <0.01 nm or 0.01% |
| Accuracy | <1nm or 0.2% |
| Weight (main unit) | 5 kg |
| Size (main unit) | 8" x 12" x 4" (WxDxH) |
| Power | 100-250VAC, 50/60 Hz 20W |

| Hardware options | |
|------------------|---|
| - FO200 | Using 200µm fiberoptics probe (for 0.2mm spot size) |
| - 20W | Change to 20W (CT 3100°, lifetime 2000hrs) tungsten-halogen lamp. |
| -AR1 | upgrade spectrometer for higher quality photometric measurement. |
| -AR2 | upgrade spectrometer for highest quality photometric measurement. |

Photometric specification

| | HC | HC -AR1 | HC-AR2 |
|----------------------------|----------------|------------------|-----------------|
| Wavelength accuracy | <0.5 nm | <0.5 nm | <0.5nm |
| Wavelength Reproducibility | 0.1nm | <0.1nm | <0.1nm |
| Photometric Accuracy | 0.01A | <0.005A | <0.001A |
| Noise | 0.001A rms | <0.0005A rms | <0.0001A rms |
| Stray Light | 0.05% at 600nm | <0.05% at 600 nm | <0.01% at 600nm |

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