

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 fiberoptics 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).

EASE OF **U**SE

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

MProbe VisHC

Thin Film Measurement System *It is easy to be an expert with MProbe*

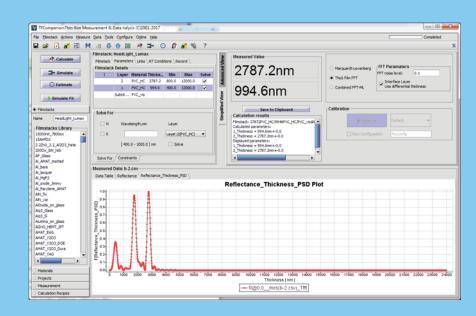


MProbeHC system

	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

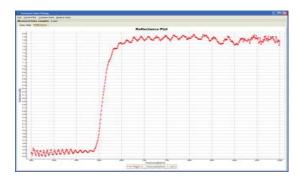
MProbe Advantage

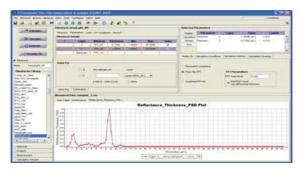
- Standalone software included
- Remote diagnostics
- Dispay residual color
- Measurement history for recall and display (plots and statistics)
- Compare and evaluate multiple reflectance spectra
- Microprocessor controlled light source with 10000+ hours lifetime
- Free software update for 12 months



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

Specification





Measurement of HC on rear-light (red) covers

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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 as-	
-	sembly), 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 200 μ m fiberoptics probe (for 0.2mm spot size)	
	- 2oW	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		