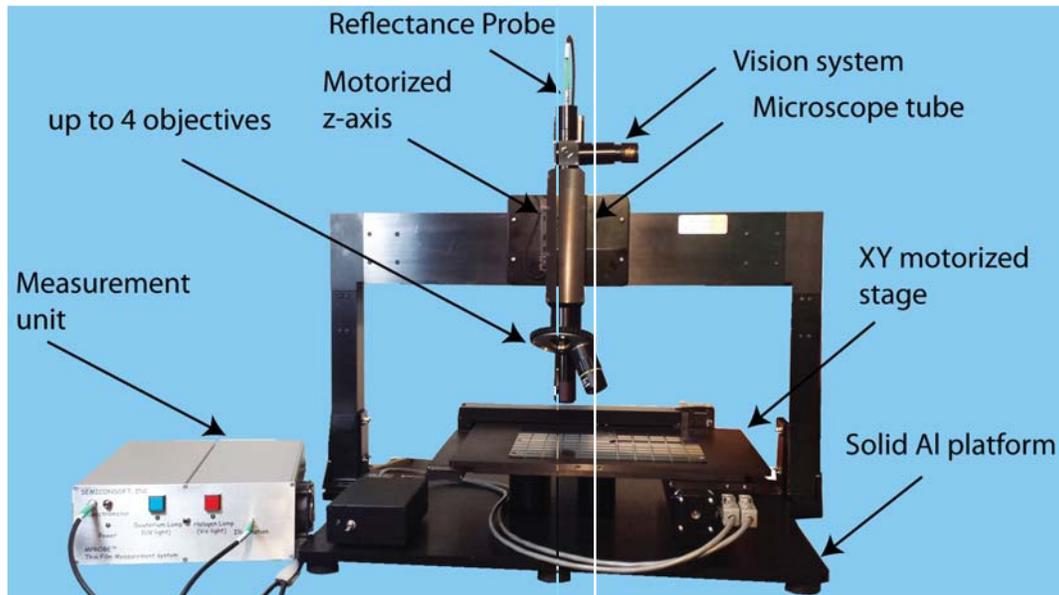




MProbe® 60 (MAP-MSP)

Thin Film Measurement System

It is easy to be an expert with MProbe



MProbe 60 MAP-MSP DESKTOP SYSTEM FOR R&D LAB AND PRODUCTION
Thickness Range: 1 nm - 2 mm, Wavelength Range: 200nm -1700nm
Measurement spot size: 200µm to 2 µm



Thickness ranges for standard MProbe configurations
(R.I. dependent)

Extensive materials library (500+ materials) - new materials easily added. Support of parameterized materials: Cauchy, Tauc-Lorentz, Cody-Lorentz, EMA and many more...

Measured parameters: thickness, optical constants, surface roughness. Unlimited number of layers.

User friendly and powerful: One-click measurement. Powerful tools for offline analysis: simulation & sensitivity, background and scaling correction, linked layers and materials, production batch processing.

Real-Time measurement/data display, 3D/2D mapping chart, offline data analysis, fast measurement

Up to 4KHz burst data acquisition mode is available for Vis and UVVis models

| | |
|-------------|--|
| Precision | <0.1nm or 0.01% (0.01nm for UV systems) |
| Accuracy | <0.2% or 1 nm |
| Stability | <0.2nm or 0.3% |
| Spot Size | 200 µm to 2 µm |
| Sample Size | up to 300mm x 300mm |
| Objectives | APO 95 parfocal, long WD (15mm to 35mm, depending on objective) 2x, 5x, 10x, 20x, 50x and 100x objectives for various wavelength ranges are available |
| Z-axis | Motorized (stepper motor) Z-axis, 0.5 µm step, 30 mm movement range |

Clean room class 1000 design available

Basic Options/ Specification

| Option | Description | Comments |
|------------------------------|--|--|
| -MXY[6,8,12] | Motorized XY stage 6" x6" (150 mm)/ 8"x8" (200 mm)/ 12x12"(300 mm). Controller and software support for mapping is included. 0.5 μm step size, +1 μm repeatability | |
| -ENC | System enclosure with interlocks, power and EVO stop button | for industrial applications and clean room environment |
| -VS | Vision system: includes 2MP camera and microscope adapter/beamsplitter | Review measurement area before and during measurement |
| APO VIS objectives | Following APO, 95mm parfocal objectives for visible range(400-1000 nm) are available: 5x,10x, 20x, 50x, 100X | LWD(working distance: 35mm-15mm) |
| APO VisNIR objectives | Following APO, 95mm parfocal objectives for visible range(400-1700 nm) are available: 5x,10x, 20x, 50x, 100x | LWD(working distance: 35mm-15mm) |
| UV-NIR objectives | All-reflective achromatic objective (200-2000nm wavelength range), 95mm parfocal are available: 10x, 15x (long working distance 24mm to 31 mm) | LWD (working distance: 24mm-31mm) |

| Model | Wavelength range | Spectrometer/Detector/Light source | Thickness range |
|-----------------|------------------|--|--|
| VISLX | 400-1000 nm | Spectrometer F4/Si 2048 pixels/ TH light source | 10 nm to 75 μm Prec. <0.01nm or 0.01% |
| UVVisSR | 200-1000 nm | Spectrometer F4/ Si CCD 2048 pixels/ De & TH light source | 1 nm to 75 μm Prec. <0.01nm or 0.01% |
| UVVisF | 200 - 900nm | Spectrometer F4/ Si CCD 2048 pixels Xe flash lamp | 1 nm - 5 μm Prec. <0.1nm or 0.01% |
| VISHR | 700-1100 nm | HR Spectrometer F4/Si 2048 pixels/ Tungsten - Halogen light source | 1 μm to 400 μm Prec. <0.1nm or 0.01% |
| NIR | 900-1700nm | Spectrometer F4/512 pixels InGaAs/TH light source | 50 nm to 100 μm Prec. <0.1nm or 0.01% |
| VISNIR | 400-1700 nm | Spectrometer F4 Si CCD 3600 pixels(Vis channel);Spectrometer F4/512 InGaAs PDA(NIR channel) TH light source | 10 nm to 100 μm Prec. <0.01nm or 0.01% |
| UVVISNIR | 200 -1700 nm | Spectrometer F4 Si CCD 2048 pixels(UVVis channel);Spectrometer F4/512 InGaA (NIR channel), De & TH light source (optional high-intensity Xe short arc source for fast measurement) | 1 nm - 100 μm Prec. <0.01nm or 0.01% |
| NIRHR | 1530-1580nm | Spectrometer F4/512 pixels InGaAs/ SLD light source +optional 50W TH lamp for illumination | 25 μm-2000 μm(quartz) 10 μm -1000 μm(Si) Prec. <10nm |

Measurement principle: Optical spectroscopic reflectometer. Information is accurate as of March 2018. Specification and configurations are subject to change. Other configurations are available on request.

One year limited warranty on labor and materials for all systems.

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