



AccuMap-SE®

Characterizing thin film uniformity of large panels just got easier. The AccuMap-SE combines a high-speed M-2000® spectroscopic ellipsometer with fast mapping for large panels. Gain confidence about your coatings that only accurate spectroscopic ellipsometry measurements can provide. The broad spectral range of the M-2000 is well suited to all thin films in photovoltaic and flat panel display applications.

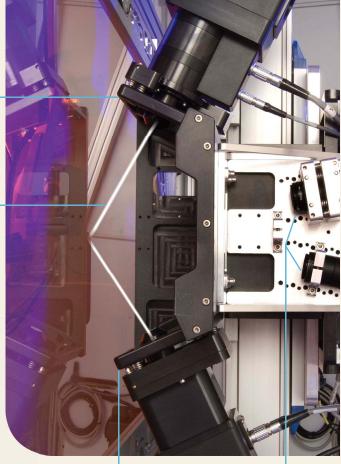
Determine uniformity of film thickness and optical constants (n & k) for a wide range of coatings:

- Amorphous, Microcrystalline and Polycrystalline Silicon
- CIS/CIGS
- CdTe, CdS
- Low-ε Coatings on Glass
- Transparent Conductive Oxides (ITO, SnO₂:F, AZO, ZnO₂...)
- Polymer Films (polyimide, PEDOT, P3HT, PV2P,...)
- Single and Multiple Layer Coatings



M-2000 source unit with patented rotating compensator design - supplies broadband light to the samples with modulated polarization.

Broadband polarized light reflects off panel coatings.



M-2000 receiver unit collects spectroscopic ellipsometry data across entire spectrum (UV to NIR) simultaneously with latest CCD technology.

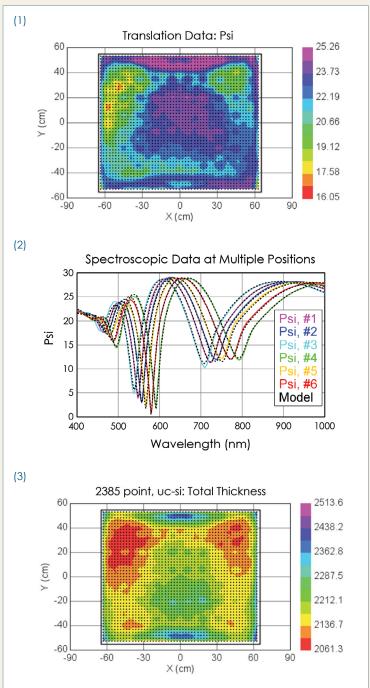
Camera-based alignment maintains correct positioning of M-2000 optics as they "fly" over large panels. *Patent-pending

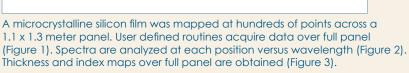
91" 2.3m

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O-SE®

*Dimensions correspond to a system configuration with 0.5m x 1.0m XY.







Specifications

Wavelength Range:

M2000V370-1000nm, 390 wavelengthsM2000VI370-1690nm, 590 wavelengthsM2000U245-1000nm, 470 wavelengthsM2000UI245-1690nm, 670 wavelengths

Angle Range:

Fixed angle near 65°

Data Acquisition Rate:

< 6 seconds per point (includes time for movement to new point, automated alignment, and data collection)

