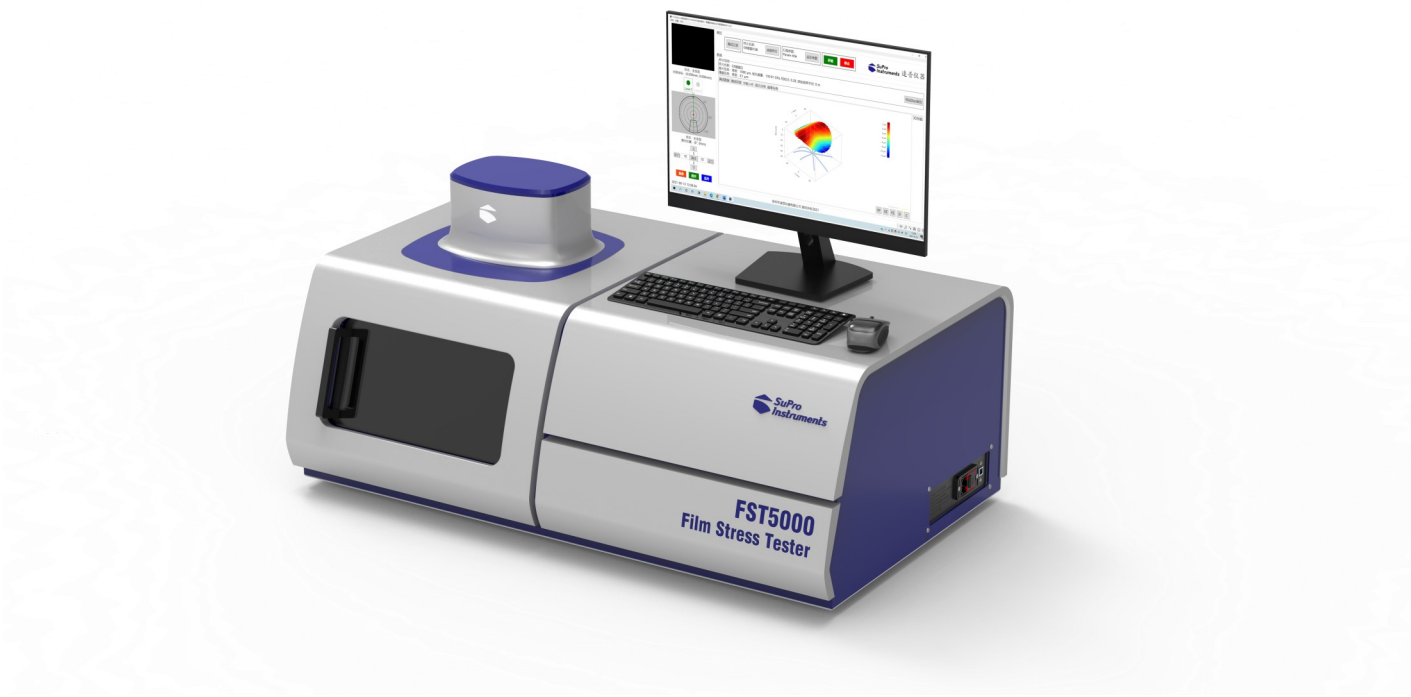


# FST5000

## FILM STRESS TESTER

Based on the principles of the classical substrate curvature method (Stoney formula), and utilizing advanced laser scanning and detection techniques, along with intelligent operation, the FST5000 thin film stress tester is particularly well-suited for measuring and calculating bow height, warpage, profile morphology, radius of curvature, and film stress of wafer-like photonic film samples.

**Dual-wavelength Scanning**

**Fully Automatic Measurement**

**High Cost-effectiveness**

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| Technical Specifications | Parameters |
|---|---|
| Basic Principle | Laser curvature method based on Stoney's formula |
| Measurement Method | Utilizes dual-wavelength lasers for sample scanning measurement<br>Wavelengths: 635nm / 670 nm, >5mW |
| Main Function | Automatically measures wafer sample contour, sag height, curvature, radius of curvature, and film stress. |
| Film Stress Testing Range | 1~10000 MPa |
| ROC Testing Range | 2-20000m |
| ROC Reproducibility | ＜1 % 1σ ( ROC < 20 m)<br>＜2.5 % 1σ ( ROC ＜200 m) |
| Minimum Scanning Step | 0.1 mm |
| Sample Size | Model M6: Max. 6 inches, downward compatible with 4, 3, 2 inches<br>Model M8: Max. 8 inches, downward compatible with 6, 4, 2 inches<br>Model M12: Max. 12 inches, downward compatible with 8, 6, 4 inches |
| Sample Stage | Electrically rotating stage |
| Sample Substrate Correction | Capable of correcting raw surface irregularities through data processing (for subtractive mode) |
| Power Supply | 110-220 VAC & 200 Watts Maximum |
| Communication Interface | USB 3.0 |
| Operating Temperature | Room temperature |
| Operating Software: | Visualizes 2D/3D display of wafer contour, sag height, curvature radius, and film stress distribution.<br>Window interface/Compatible with Windows 10 system |
| Operating Computer | Standard branded desktop all-in-one:<br>Display: ≥21 inches, ≥8 GB memory, CPU ≥ 2.5 GHz, ≥512 GB hard disk |
| Dimension | 850mm * 550 mm * 450mm |
| Weight | 35Kg |
| Warranty | One year |
| Remarks | The above-listed technical specifications and parameters are subject to up dates without further notice. Contact us if you have any questions. |

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