

Scattered Light Photoelastic Stress Meter

Model: SLP-1000

This machine is available to measure stress distribution of chemically tempered glass which is strengthened by ion-exchange from Li⁺ to Na⁺ using scattered light photoelasticity. In case of that the glass is strengthened by mixed liquid KNO₃ and NaNO₃, K⁺ layer should be measured by FSM-6000LE and Na⁺ layer should be measured by SLP-1000. These data can be combined by special software.



- ❖ Don't depend on refractive index distribution
- ❖ Available for bent glass
- ❖ High resolution
(Laser diameter: about 10um)
- ❖ Measurement data from SLP can be combined with one of FSM

* The combination requires optional FsmV dongle.

Specification

Measurement range	: CS 0-2000MPa, DOL 10-400um
Measurement resolution	: Stress 5MPa Depth 5um
Measurement precision	: 50um or deeper from surface Stress ±10Mpa Depth ±10um (For standard glass)
Light source	: LD Wavelength 640±10nm 30mw Class 3B
Application	: Chemically tempered glass, DIOX glass Thermally tempered glass
Sample shape	: Flat-1000R 10x10mm or more
Prism	: nD=1.516
PC	: Preinstalled OS, special software
OS	: Windows 10 professional edition
Size (main body)	: W320xD280xH220mm
Weight (main body)	: 10kg

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