

Scattered Light Photoelastic Stress Meter

Model: SLP-2000

Price JPY4,500,000-



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-2000. These data can be combined by special software.

* The combination requires optional FsmV dongle.

<Standard Deviation>

σ

Model	Wavelength	CT_CV	DOL_Zero
SLP-1000	640nm	5.65MPa	2.16um
SLP-2000	520nm	1.51MPa	1.42um
SLP-2000	405nm	1.00MPa	1.27um

- Actual data measuring the standard glass 20 times
- Required Refractive index and Photoelastic constant at the wavelength for measurement

Specification

Measurement range	: CS 0-2000MPa, DOL 10-600um
Measurement resolution	: Stress 5MPa Depth 5um
Measurement precision	: 50um or deeper from surface Stress \pm 10Mpa Depth \pm 10um (For standard glass)
Light source	: LD 520 \pm 10nm 30mw Class 3B or 405 \pm 10nm 30mW Class 3B
Application	: Chemically tempered glass, DIOX glass, Thermally tempered glass
Sample shape	: Flat-1000R 10x10mm or more
Prism refractive index	: 1.518 @518nm / 1.530 @405nm
PC	: Preinstalled OS, special software
OS	: Windows 10 professional edition
Size (main body)	: W320xD280xH220mm
Weight (main body)	: 10kg

* The combination requires optional FsmV dongle.

* In case of using 405nm LD continuously for a long time, the optical parts in the machine are damaged.
Therefore, the parts replacement is necessary in a short cycle.

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