

Scattered Light Photoelastic Stress Meter

Model: SLP-1000

Price JPY4,000,000-

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-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

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|------------------------|---|
| 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 640nm) 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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