

# 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<sup>+</sup> to Na<sup>+</sup> using scattered light photoelasticity. In case of that the glass is strengthened by mixed liquid KNO<sub>3</sub> and NaNO<sub>3</sub>, K<sup>+</sup> layer should be measured by FSM-6000LE and Na<sup>+</sup> layer should be measured by SLP-1000. These data can be combined by special software.

\* The combination requires optional FsmV dongle.

<Standard Deviation>

$\sigma$

Model	Wavelength	CT_CV	DOL_Zero
SLP-1000	640nm	5.65MPa	2.16um
SLP-2000	518nm	1.51MPa	1.42um
SLP-2000	405nm	1.00MPa	1.27um

- Actual data measuring the same 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 $\pm 10$ MPa Depth $\pm 10$ um (For standard glass)
Light source	: LD 518nm 30mw Class 3B or 405nm 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

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