Scattered Light Photoelastic Stress Meter SLP-2000

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>

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 same glass 20 times
- Required Refractive index and Photoelastic constant at the wavelength for measurement

Specification

Measurement range	: CS 0-2000MPa, DOL 10—600µm
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Measurement resolution	: Stress 5MPa, Depth 5μm
Measurement precision	: 50µm or deeper from surface stress±10MPa_Depth±10µm
	(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 10×10mm or more
Prism	: nD=1.518 @ 518nm / 1.530 @ 405nm
PC	: Preinstalled OS, special software
OS	: Windows 10 professional edition
Size (main body)	: W 320 × D280 × H220mm
Weight (main body)	: 11kg

• 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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