## Surface Stress Meter model: FSM-6000X

The FSM-6000 X series is developed for measuring the surface stress of glass using a PC.

Chemical and thermal tempering is increasing the areas of glass application in most of industries.

The optical waveguide effect in the surface layer of tempered glass is a useful tool for measuring surface stress for quality and process control purpose.



• Since the prism shape has changed, it is less susceptible to contamination by immersion liquid.

• The dimming method has changed from an optical filter type to an electric type.

## <u>Feature</u>

- o Non-destructive measurement
- o Output measurement data
- Measure the double ion exchange glass
- o Display of cross section stress distribution
- o OK/NG judgement

## **Option**

- o Measure glass thickness automatically using glass Thickness Meter
- o Auto dispenser
- One touch switch (when judgement mode)
  - \*Please refer to the each catalogue for the details

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Туре	UV	VIS	IR
Light source	LED 365±10 nm	LED 596±10 nm	LED 790±10 nm
Meas. Range CS*	0-1000 MPa	0-1000 MPa	0-1000 MPa
Meas. Range DOL*	5-50 um	10 <b>-</b> 100 um	10-200 um
Precision	CS ±5 MPa, DOL ±3 um (For the standard glass)		
Accuracy	$CS \pm 20$ MPa, DOL $\pm 5$ um (Accuracy of the standard glass)		
Object	Chemically tempered glass, Physically tempered glass		
Object Size	Flat 10×10 mm or more		
PC	Exclusive use (OS and measurement software are already installed)		
OS	Windows 10/11 64 bit		
Meas. Software	FsmX		
Weight	14kg (Main body), 6kg (PC), 3kg (Monitor)		
Size (mm)	280*600*220 (Main body), 290*93*293 (PC), 512*180*397 (Monitor)		

\* The measurement ranges shown in the table are only a guide. In reality, they vary depending on the photoelastic constants and refractive index distribution of the glass.



## Measurement Wavelength



Orihara Industrial Co., Ltd. 5-47-15 Higashi-Ikebukuro Toshima-ku Tokyo Japan 170-0013 TEL 03-3985-9531 FAX 03-3985-9532 http://www.orihara-ss.co.jp e-mail orihara@orihara-ss.co.jp