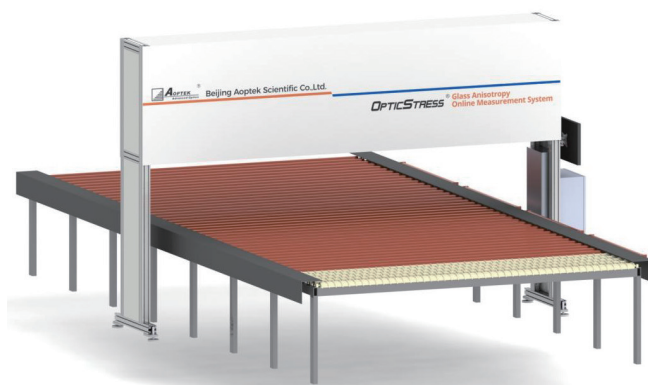


OPTICSTRESS[®] **玻璃应力斑在线检测系统**

Glass Anisotropy Online Measurement System

- Suitable for tempered glass production lines
- Polarization optical measurement method
- Retardation and iridescence measurement
- Global statistical analysis
- Retardation-based quality classes



Product Introduction

OpticStress[®] is an online measurement system for anisotropy of tempered glass, including retardation and iridescence (also known as stress pattern). The system adopts a non-contact polarization optical measurement method to obtain the retardation and relative intensity of iridescence, and provides glass quality classes based on the retardation distribution. The assessment parameters include: retardation and iridescence pseudo-color maps and their statistical data; cumulative distribution curves of retardation and iridescence; 2D data distribution curves; glass quality classes based on retardation; and simulation images of iridescence from different observation angles.

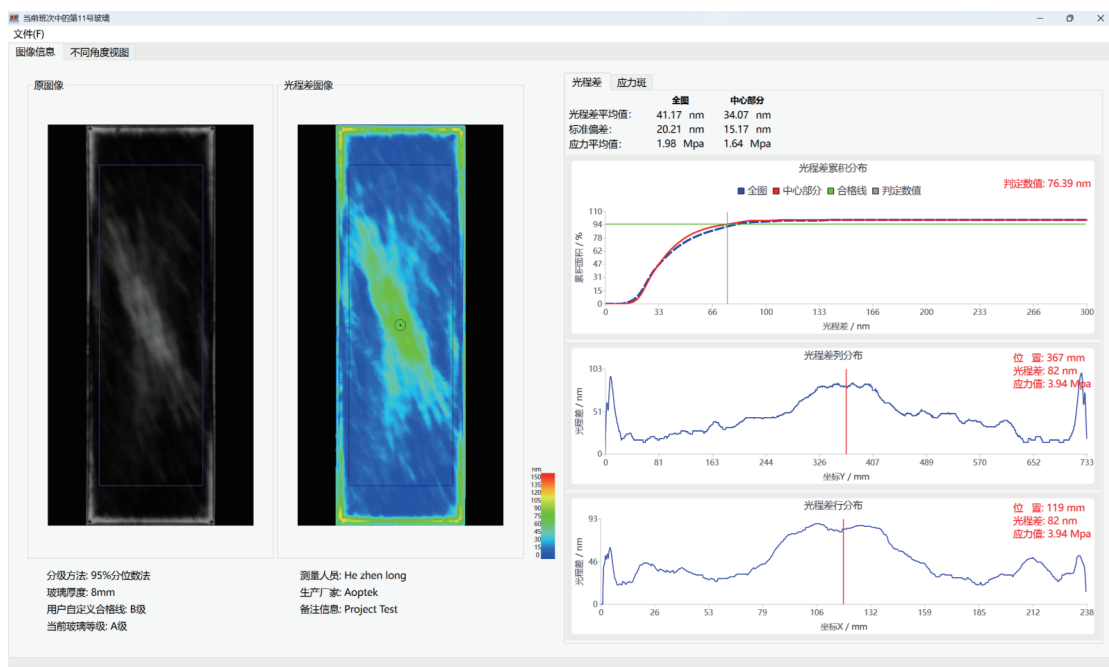
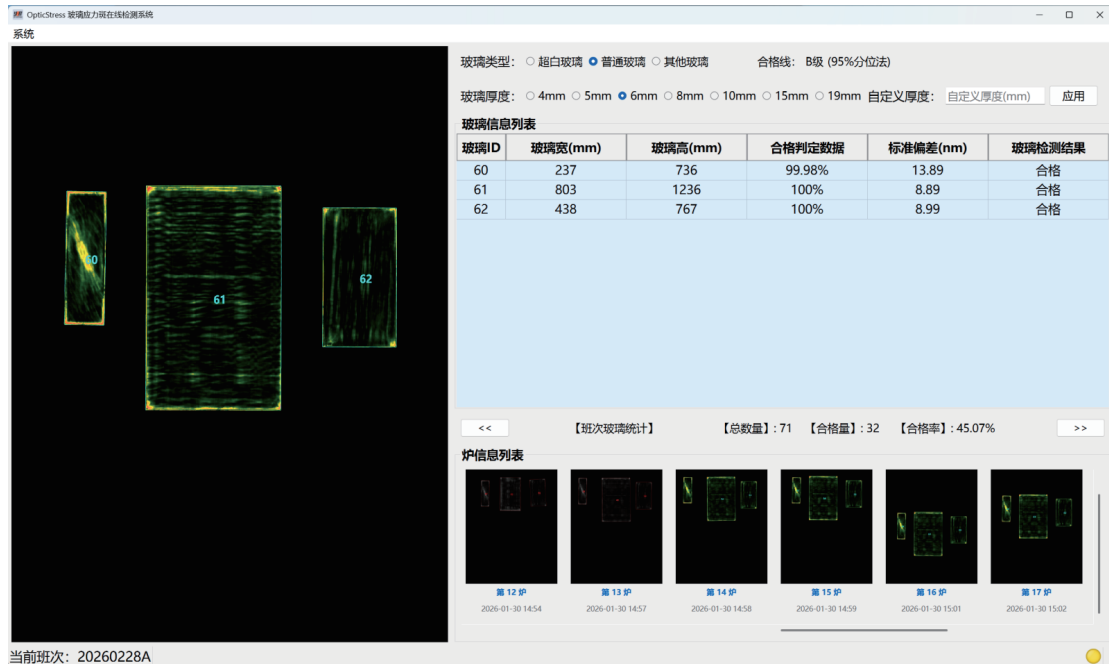
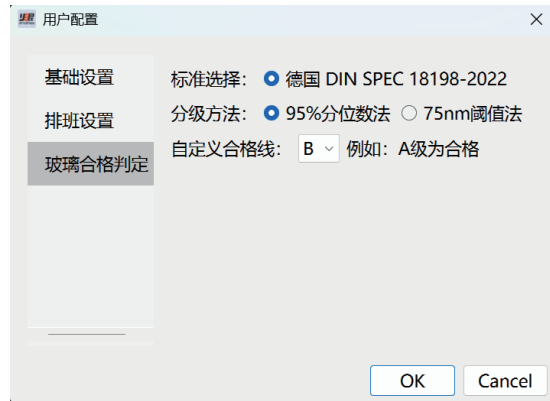
Measuring Object

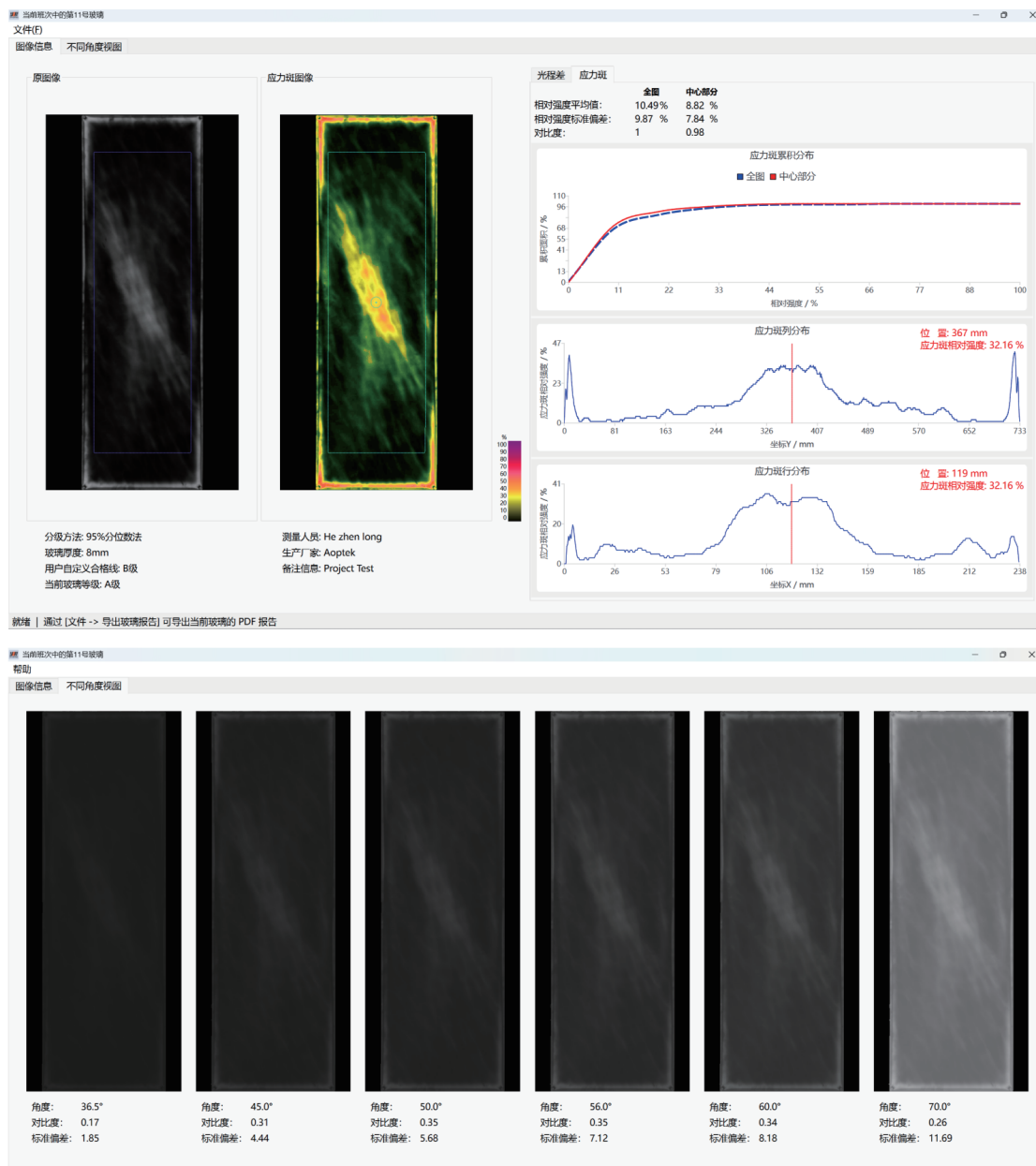
- ★ Tempered glass

Product Characteristics

- ★ Independent intellectual property rights;
- ★ Non-contact **online scanning**;
- ★ **Quantitative** measurement.

Software Interface





System Configuration

Items		Configuration Specifications				Explanation
PRODUCTION LINE SPECIFICATION		2500	3000	3500	4000	Transverse maximum measuring range (mm)
DIMENSIONS	WIDTH (X)	3600mm	4100mm	4600mm	5100mm	Other sizes can be customized
	LENGTH (Y)	520mm				Anchor 800mm
	HEIGHT (Z)	2630mm				
ELECTRICAL PARAMETERS	POWER INPUT	AC 220V				
	RATED POWER	1kW				

Note: The x-axis direction corresponds to the width of the production line, the y-axis direction corresponds to the direction of glass transmission, and the z-axis direction corresponds to the height.

Manufacturer reserves the right to modify specifications. Refer to actual product and manual for final details.

Technical Parameters

Items		Parameter Index	Explanation
RETARDATION	PCOLOR	Pseudo-color map showing the distribution of retardation	
	CUMULATIVE DISTRIBUTION CURVE	95% QUANTILE CURVE	Select the "95% Quantile Method" before measurement.
		75nm THRESHOLD CURVE	Select the "75nm Threshold Method" before measurement.
	2D DATA DISTRIBUTION CURVE	X and Y axis retardation distribution curves	
	ACCURACY	$\pm 10\text{nm}$	Data obtained under good glass flatness conditions
	GLASS QUALITY CLASS	95% Quantile Method、75nm Threshold Method	According to the standard DIN SPEC 18198; Other standards can be customized
IRIDESCENCE	PCOLOR	Pseudo-color map showing the relative intensity distribution of iridescence	
	CUMULATIVE DISTRIBUTION CURVE	Horizontal axis: relative intensity of iridescence; Vertical axis: cumulative area	
	2D DATA DISTRIBUTION CURVE	X and Y axis relative intensity distribution curves of iridescence	
GLASS SIZE (X,Y)		Measurement accuracy in the X-axis direction : $\pm 2\text{mm}$	Data obtained under good glass flatness conditions
DATA STORAGE		Real-time storage of measurement data for each glass pane	
DATA VIEWING		Access database to view historical measurement data	
DATA STATISTICS		Statistics on detection quantities and pass rates	

Equipment Appearance

