

VER[®] FLAT VIEW[®] **玻璃平整度及光畸变在线测量系统** Glass Flatness & Distortion Online Measurement System

- For tempered / float glass lines
- Principle of slope measurement
- 3D surface reconstruction
- Global statistical analysis
- Determination of flatness and optical distortion



Product Introduction

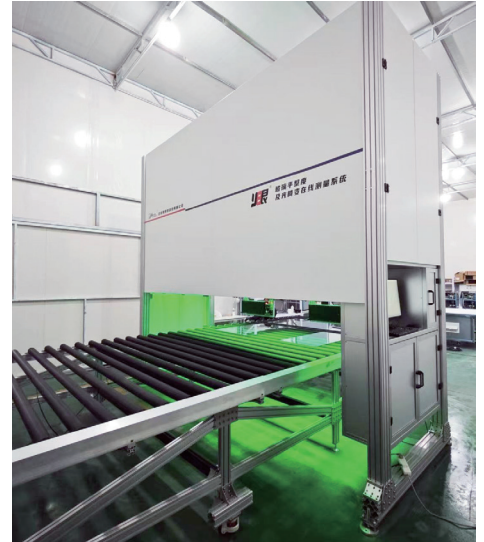
FlatView[®] is an online measurement system for flatness and optical distortion of flat tempered glass or float glass. Non-contact geometric optical surface measurement technology is adopted. By measuring the slope distribution of the glass surface, the surface shape is reconstructed based on the slopes. The assessment parameters are calculated according to the calculation methods for flatness and optical distortion specified in the standards. The evaluation indexes include PV, diopter, 3D data distribution map and data distribution curve.

Measuring Object

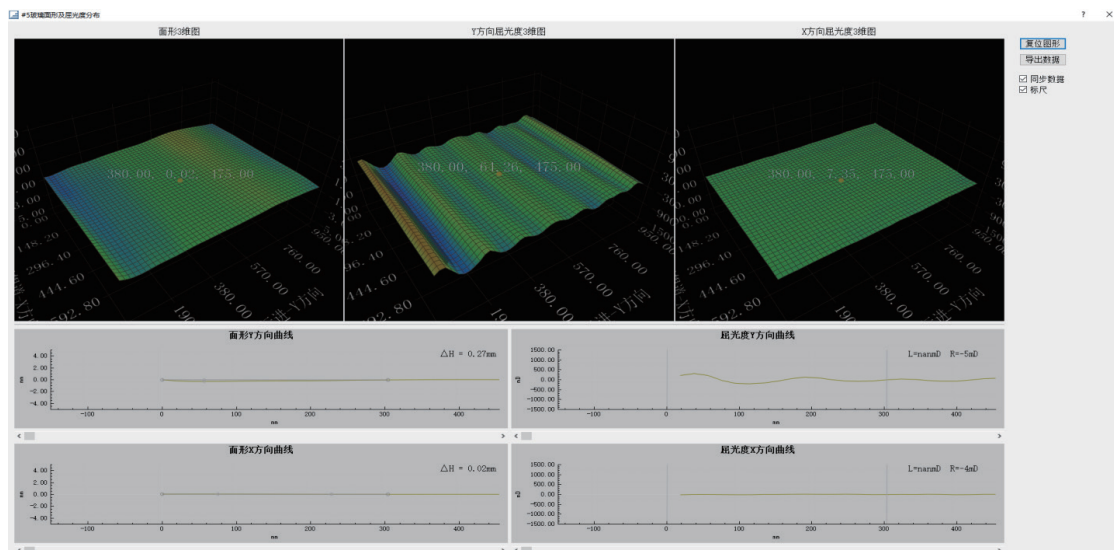
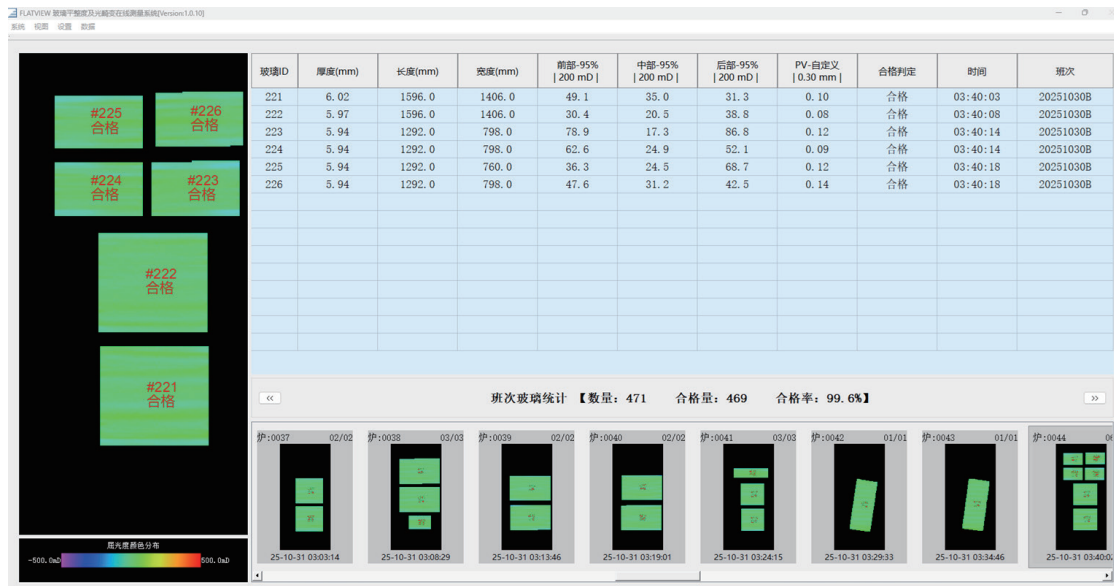
- ★ Tempered glass / Float glass

Product Characteristics

- ★ Independent intellectual property rights;
- ★ Non-contact **online scanning**;
- ★ The measurement data is stable, and it has **anti-vibration properties** for the glass surface;
- ★ Periodic **internal calibration** ensures high measurement accuracy;
- ★ Support a variety of standards in calculations;
- ★ High-precision measurement reference calibration, with traceable measurement values.

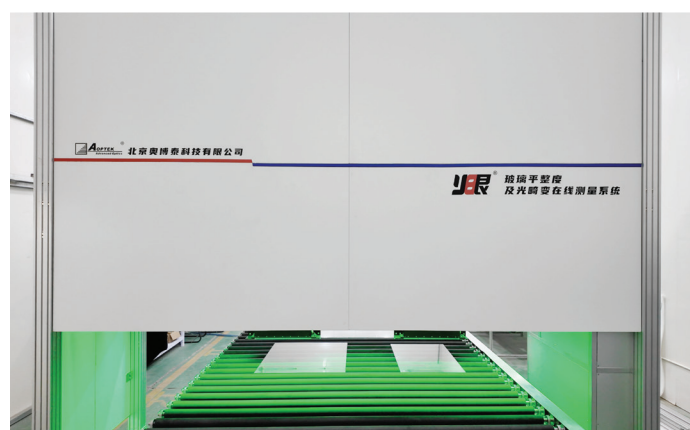


Software Interface



Technical Parameters

Items		Parameter Index	Explanation
FLATNESS	PCOLOR	Real-time display of pseudo-color map of surface shape distribution, and rotation to view 3D data	
	CURVES	X and Y axis height distribution curves	
	ACCURACY	Curved surface: 0.100 mm/300 mm (at 1.2 mm PV) Flat surface: 0.030 mm/300 mm	The span is optional, and the software defaults to 300mm.
	QUALIFICATION JUDGMENT	PV _{max} /300mm	Maximum PV of roller wave distortion
OPTICAL DISTORTION	PCOLOR	Real-time display of pseudo-color map of diopter distribution, You can view 3D data graphs of diopter with coordinates (x, y, mDx) for the X-axis and (x, y, mDy) for the Y-axis	
	CURVES	X and Y axis diopter distribution curves	
	ACCURACY	Curved surface: 5 mD (at 200 mD) Flat surface: 1 mD	
	QUALIFICATION JUDGMENT	mD _{max}	Maximum diopter values along the X and Y axes
GLASS THICKNESS		Range: 2~20mm Accuracy: ±0.1mm	Includes 2 online thickness gauges, customizable for more
GLASS SIZE (X,Y)		The measurement deviation is within 40 mm	The size is estimated by measuring the point matrix coverage area (reference only)
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	



System Configuration

Items		Configuration Specifications			Explanation
PRODUCTION LINE SPECIFICATION		2600	3250	3900	Transverse maximum measuring range (mm)
DIMENSIONS	WIDTH (X)	4300mm	4900mm	5600mm	Other sizes can be customized
	LENGTH (Y)	900mm			Anchor 1580mm
	HEIGHT (Z)	3500mm			
ELECTRICAL PARAMETERS	POWER INPUT	AC 220V			
	RATED POWER	2kW			

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.

Equipment Appearance

