

YLY-H Polarizing Stress Instrument (Touch screen)

YLY-H Touch screen Polarizing Stress Instrument is suitable for polarized internal stress testing of glass infusion bottle, glass tube (moulded) medicine bottle, tube (moulded) injection bottle, ampoule bottle, oral liquid bottle, etc. It can also be used for stress testing of glass containers such as beer bottle and liquor bottle.



Technical Characteristics

- Qualitative and Quantitative Test Models. The test space is adjustable and the scope of application is wide.
- The instrument can store 200 sets of data, each of which contains 50 measurements.
- Measurement with high precision absolute angle encoder, The measurement accuracy is better than 2.0 nm.
- Touch screen display. The measurement angle and optical path difference can be displayed at the same time. Users can get the required data intuitively, which makes the measurement intuitive and easy to read.
- Dark field of view no calibration required. Absolute encoder is adopted. The dark field of polarization field is always at zero angle, so there is no need for users to zero calibration, which avoids the error caused by artificial correction of dark field.
- Environmental protection and energy saving. The more energy-saving and environmental protection LED light source is adopted, which saves more than 80% energy compared with the traditional light source.
- Equipped with micro printer to print out test data conveniently.
- It is equipped with USB interface and can connect PC software to control instrument operation.
- Automatically save historical test records, local query, and export to EXCEL format on the computer side to save.
- Touch screen operation user three-level permission settings, fully meet the GMP authority authentication.
- Testing Record Auditing and Tracking Functions.
- Test results are uploaded synchronously to cloud servers for storage, and can be browsed on the Internet around the world.
- Dual backup of local data and cloud data to ensure that data will not be lost.

Testing Fundamentals

It is an instrument for checking the internal stress in glass and the birefringence of crystal by using the principle of polarized light interference. Because the polarizing stress meter has sensitive color plates and uses 1/4 wave plate compensation method, the instrument can not only measure the optical path difference of glass qualitatively or semi-quantitatively according to the interference color sequence in polarizing field, but also measure the internal stress of glass accurately and quantitatively with wall thickness gauge.



Test standards

The instrument meets many national and international standards: JJG196-2006 《Verification Rules for Common Glass Gauges》 GB/T4545 《Inspection Method of Internal Stress in Glass Bottles and Tanks》 GB/T12415 《Inspection Method of Internal Stress in Medicinal Glass Containers》 YBB00032005-2005 《Soda-Lime Glass Infusion Bottle》 YBB00332002-2015 《Low Borosilicate Glass Ampoules》

Specifications

Item	Model	YLY-H Polarizing Stress Instrument (Touch screen)
Indicative value of instrument		0.1nm
Measurement accuracy		2nm
The diameter of polarizing field		150mm
The rotation angle of analyser plate		-180 ~+180Degrees
Edge Brightness of Light Field		> 120cd/m ²
Adjustable range between Polarizer and Analyzer		280mm
Brightness of Light Field		≥ 800lux
Data		200sets
Each set of data		50measurements
Dimensions		220mm (L) × 350mm (B) × 580mm (H)
Weight		12Kg
Working power		AC 220V 50Hz
Working environment temperature		10—40 °C

Product Configurations

Standard Configuration	Mainframe computer, Power cord
Optional parts	Communication Cable, Professional Software

