

# Products

# Superior Imaging | High Precision Stable Performance | Long Durability

# Sample Measurement

# Quantative Polariscope

#### Application

This Polariscope series adopts polarized light and photoelasticity principle to qualitatively observe, analyze and quantatively measure residual stress inside transparent crystals, glass, and plastic products.

It is mainly used for stress-related quality control in process development and production stages.

#### **Testing Method**

Sensitive Tint Color Method---Qualitative analysis

The entire field of view appears to be slightly reddish purple, which is known as a photosensitive color. Put it into the sample, and the area with stress appears green blue or orange yellow.

Senarmont Method--- Quantative Measurement

The entire field of view appears to be dark black. When rotating the top analyzer, the viewing field color will change accordingly.

#### Testing Principle

The internal stress of glass, plastic and crystal products has a birefringent characteristic. If there is stress inside these types of products, light from a polarized lamp will be divided into 2 different units, which generates optical retardation between ordinary light and extraordinary light.



#### **Typical Application**

- 1.Transparent glass products, such as fused quartz components, optical glass and glassware
- 2. High transmittance crystal products, such as Sapphire bar, YAG rod
- 3. Transparent plastic products, such as optical resin film ,plastic sheet
- 4. Other plastic components , such as lens

#### Main Specifications

Model Item	PSV-413	PSV-413H	PSV-413L
Polarizing field	200*200mm	200*200mm	400*400mm
Analyzer	Diameter 78mm	Diameter 78mm	Diameter 78mm
Measuring height	Max 259mm (adjustable)	Max 360mm (adjustable)	Max 600mm (adjustable)
Dimension	291×384×388mm	291×384×490mm	485×584×732mm
Weight	about 11KG	about 13KG	about 22KG

## **Application Area**



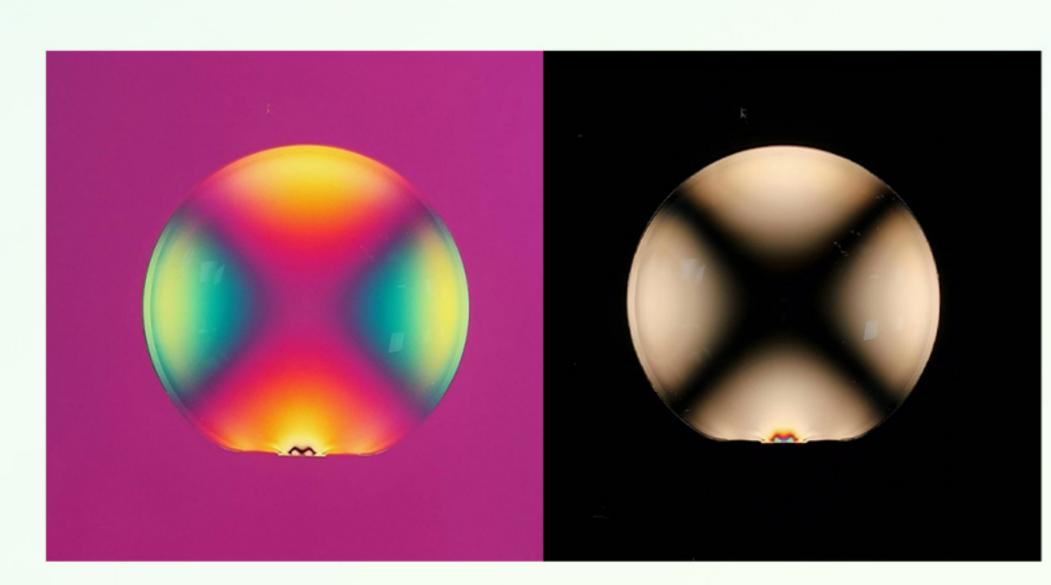
Glass

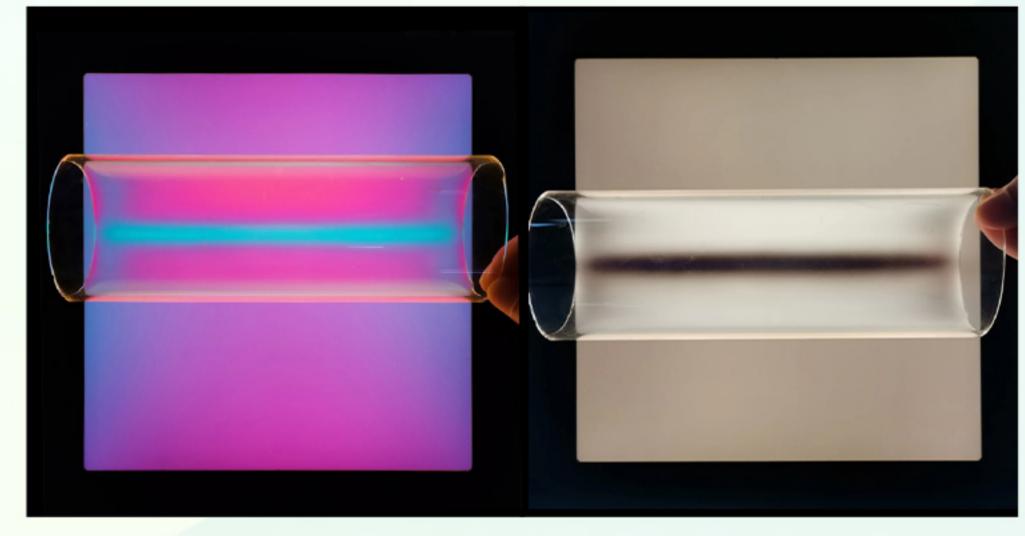


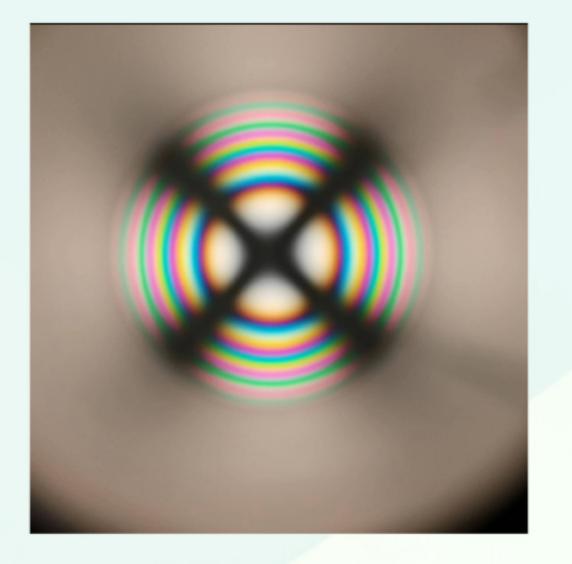


Plastic Crystal

### **Testing Image**







Lens

Quartz Tube

Sapphire

## Contact Us

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