Multichannel Birefringence Analyzer (MBA)

IFP-710

<Main controller>

The **IFP-710** low level Multichannel Birefringence Analyzer (MBA) is a major breakthrough for enabling glass manufacturers to overcome difficulties in the production line.

The MBA offers the industry s highest precision measurements at the fastest available speeds.

With its detector modules, MBA measures birefringence magnitude and angles of glass plate at eight points simultaneously with 150 Hz of measurement speed.

Based on balanced detection, it is also uniquely designed to provide accurate birefringence analysis even in harsh environments, including factories and mechanical labs.

Key Features

- Simultaneous measurement of birefringence magnitude and angle
- High speed measurement (150Hz)
- High resolution
- High sensitivity in low-level birefringence measurement.
- Modular design for moving head
- Selectable light source by application
- Versatile use -- i.e. glass, semiconductor, wave plates, visible, infrared materials

<Sensor modules>
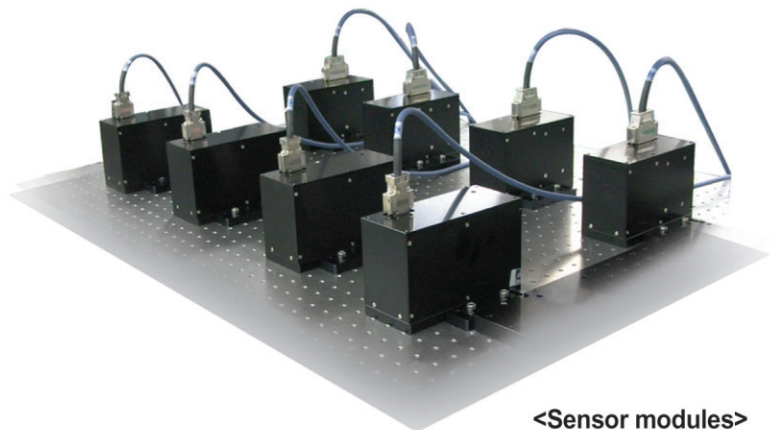
Applications

- On-line low level birefringence measurement for glass plate
- Finding excess stress at edge
- Stress analysis of optical materials, including polymer films
- Metrology for quality control
- Wafer/photolithography components analysis

Specifications

Optical Specifications		
Wavelength		680nm ± 2nm
Source Spot Size		< 1mm
Measurement Speed		150Hz
Accuracy	Retardance	0.05nm or 1% of retardance
	Angle	0.1°
Resolution	Retardance	0.002nm for 10nm retardance
	Angle	0.005° for 10nm retardance
Range	Retardance	0 ~ 340nm
Number of Channels		8 [1]
Trigger Source		External or Internal
Electrical / Mechanical Specifications		
Power Supply		AC100 ~ 250V
Interfaces		GPIB
Dimensions (W × D × H)		
	Main Controller	448.9 × 435.5 × 177 mm³
	Source Module	74 × 153 × 110 mm³
	Detector Module	74 × 168 × 110 mm³

[1] Additional channels possible (easy channel expansion)

Polytec

POLYTEC GmbH   Polytec-Platz 1 - 7   D -76337 Waldbronn   GERMANY

Tel: +49 (72 43) 604 174   Fax: +49 (72 43) 6 99 44   E-Mail: ot@polytec.de   www.polytec.de