The ultimate on-line measurement solution

## Low Birefringence Analyzer (LBA) **BA 7000**

FIBERPRO announces its latest innovative tool for polarization analysis. The new Low Birefringence Analyzer (LBA) is designed to offer an accurate field analysis of birefringence. This new solution is a major breakthrough for enabling glass manufacturers to overcome difficulties in the production line while also providing faster and more accurate birefringence measurement in the laboratory.

The LBA offers the industry s highest precision measurements at the fastest available speeds. For example, with 80 Hz of measurement speed at sub-micro radian accuracy, it can provide precise data for 2000-mm glass in just 30 seconds. While others measure in time, FIBERPRO measures in frequency.

FIBERPRO LBA is uniquely designed to provide accurate birefringence analysis, based on balanced detection-even in harsh environments, including factories and mechanical labs where extreme noise and vibration might present issues for other measurement equipment.

The LBA s micro radian-grade capabilities make it extremely versatile for working with most transparent materials, such as glass and semiconductors.

With LBA, FIBERPRO helps ensure the success and competitiveness of glass manufacturers.

**Polytec** 

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POLYTEC GmbH

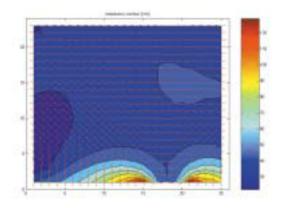
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## **Key Features**

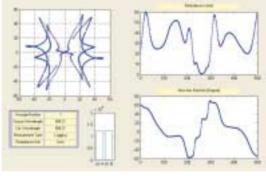
Fastest available speeds (80Hz) High resolution ( urad / sqrt(Hz) ) Intensity noise-free Modular design for moving head Selectable light source by application Versatile use - i.e. glass, semiconductor, wave plates, visible, infrared materials Light weight All-in-one feature with integrated circuit Custom-made graphical user interface (GUI)



## **Applications**

On-line measurement for glass plate Defect-induced localized birefringence Big glass plate measurement Finding excess stress at edge Glass cutting Stress analysis of optical materials, including polymer films Metrology for quality control Wafer/photolithography components analysis Finding small defects in the plate

High-accuracy birefringence analysis in laboratory



Example : PMMA plate

## **Specifications**

Parameters	Specifications	Note
Wavelength( $\lambda$ )	680nm, SLD 1)	Other wavelengths are available according to applications
Retardance range	0~π	$2\pi$ radian is equivalent to $\lambda$
Retardance resolution	<10 uradian	@ 80 Hz measurement
Maximum measurement speed	80 Hz	
Spot size	<1mm	
Communication	GPIB	
Structure	Modular	X-Y moving stage can be supplied upon request
Physical dimension		
Power input	90-250V AC @50-60Hz	

<sup>1)</sup> Spectral width 10nm

