BIREFRINGENCE MEASUREMENT

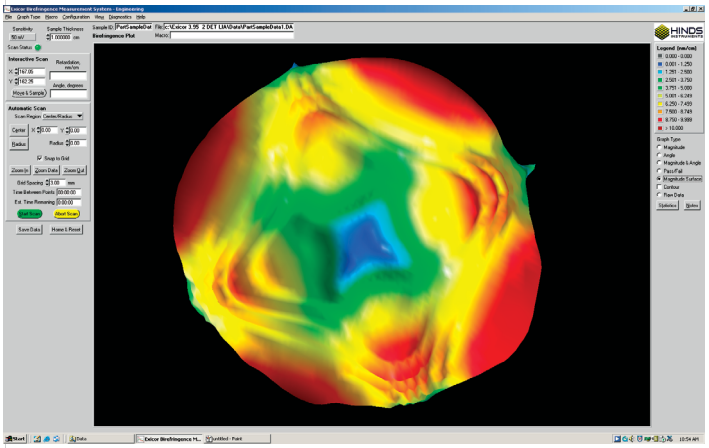
EXICOR® 120AT

HINDS INSTRUMENTS

PRODUCT BULLETIN

The new Exicor 120AT is versatile enough to excel in both production floor and R&D lab environments. The bench top design and intuitive automated scanning software make this product ideal for day-in-day-out evaluation of small parts (up to 120 mm x 100 mm).

The standard high speed scanning package, Scan in Motion™ or SIM, makes high spatial resolution scans (<1 mm grid spacing) practical.



Applications

- Quality control metrology
- Low-level birefringence measurements of
  - Plastic Films
  - Lens Blanks
  - Laser Crystals
  - Cell Phone Display Windows

Significant Features

- Unprecedented sensitivity in low-level birefringence measurement
- Simultaneous measurement of birefringence magnitude and angle
- Precision repeatability
- High-speed measurement
- No moving parts in the optical system
- Automatic mapping of variable-sized optical elements
- Simple, user-friendly operation

EXICOR®
BIREFRINGENCE MEASUREMENT SYSTEMS

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SPECIFICATIONS

Retardation Range:	0.005 to 300+ nm
Retardation Resolution /Repeatability[1, 2]:	0.001 nm / ± 0.02 nm
Angular Resolution /Repeatability[3]:	0.01° / ± 0.07°
Measurement Rate / Time[4]:	15 samples/sec (at 1nm spacing)
System Dimensions:	715 mm (H) x 350 mm (W) x 360 mm (D)
Light Source Wavelength[5]:	Various (633 nm standard)
Measurement Spot Diameter[6]:	Between 1 mm and 3 mm
Measurement Units:	nm (retardation), ° (angle)

1 Typical performance at 5 nm retardation

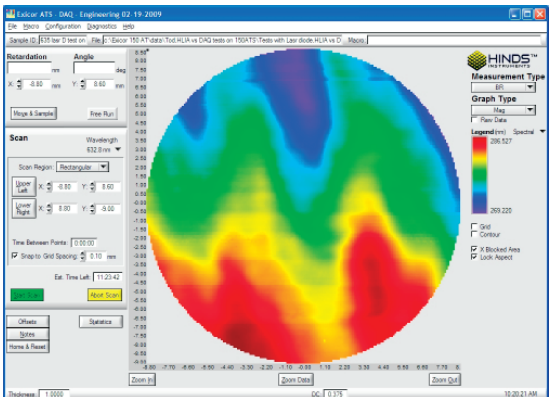
2 Up to 2nm, 1% thereafter

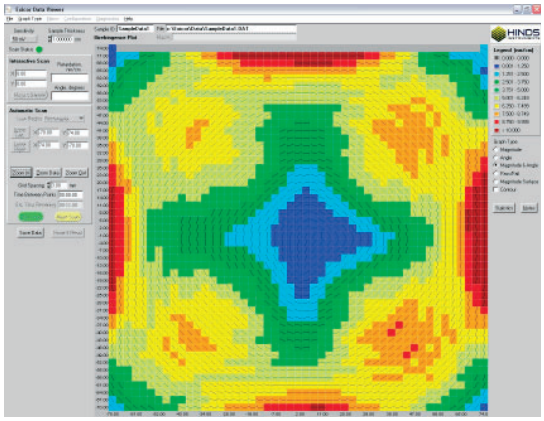
3 Typical performance at 10nm retardation

4 Maximum data collection speed. Sample XY scan time dependent on stage movement parameters.

5 Custom wavelengths available

6 Spot sizes of less than 1 mm require optional high resolution detector module





Hinds Instruments, Inc | 7245 NE Evergreen Pkwy | Hillsboro, OR 97124 | USA
T: 503.690.2000 | Fax: 503.690.3000 | sales@hindsinstruments.com

www.hindsinstruments.com