

PRODUCT BULLETIN

Product Announcement

Birefringence Imaging system for freeform optics

The newest system to the Hinds Instruments' Birefringence Measurement catalog, the Midfield Imager is designed for high speed retardance measurement of a variety of samples. Where Exicor® systems have been limited to only measuring planar samples, the Midfield Imager will report retardance of any freeform optic, glass, plastic or biological sample, as well as standard planar samples up to 148mm x 130mm. Along with the new ability to measure freeform samples, the Midfield Imager is the first wireless system from Hinds Instruments.

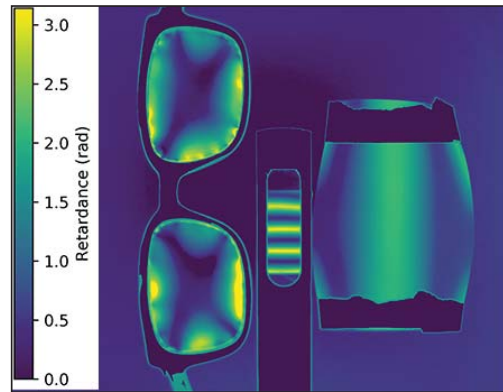
Useful for academics, research and development, and quality assurance, the Midfield Imager allows users to visualize high stressed areas in their samples within seconds. The Midfield Imager will give the same ease and feel of using cross polarizer analysis, while also producing quantitative data with its easy-to-use software.

Features

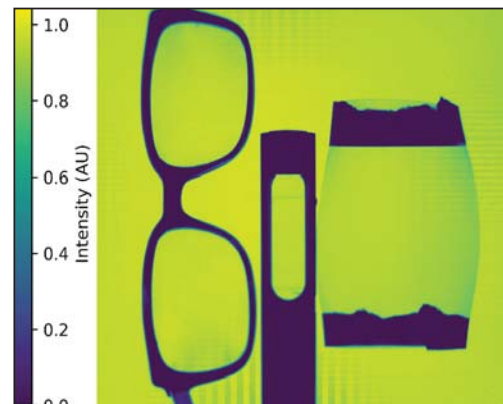
- Measures retardation and intensity
- Images retardation and intensity
- Wireless communication
- Visual color maps for optimal display of data
- Pixel by pixel data and hover tool
- Export of data in .csv format
- Export of images in jpeg format

SPECIFICATIONS

| | |
|-------------------------------|---|
| Retardation Repeatability | 2 nm |
| Light Source Wavelengths | Blue (475 nm) Green (530 nm) Red (630 nm) |
| Retardation Measurement Range | 5 nm - $\lambda / 2$ |
| Data Collection Speed | 6 sec |
| Data Processing Speed | 10 sec |
| Field of View | 148mm x 130mm |
| Spatial Resolution | 50 μ m / pixel |
| Interfaces | Wireless, Ethernet |
| Camera Resolution | 8 Megapixel |
| Dimensions Footprint | 38cm x 33cm |
| Height | 86 cm |



Midfield Imager Retardation Map



Midfield Imager Intensity data map