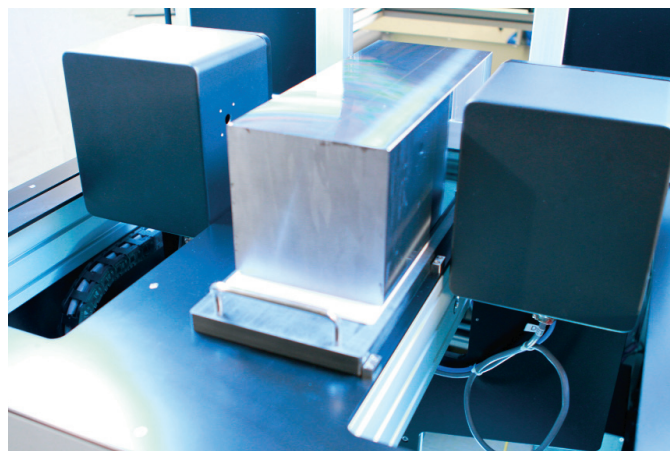


The Exicor PV-Si measures retardation integrated along an optical path through the optical sample under investigation. It is designed to measure and display both the magnitude and fast axis orientation of the sample's optical retardation. In this unique design the ingot remains fixed and the Exicor source and detector modules are moved by the PC-controlled stages. A 1550 nm laser beam is polarized and then modulated by the PEM in the source module. The modulated beam is transmitted through the sample and then passes through the detector module, a combination of a second PEM, an analyzer, and a Ge-APD photodetector. The electronic signals are processed through three lock-in amplifiers in parallel that provide very low level signal detection.

A software algorithm, developed by Hinds Instruments, converts the signal levels from the electronics module into parameters from which linear birefringence can be determined. The data is analyzed by the computer, and then retardation magnitude and axis angle are displayed and stored in a file. When operated in the automated mapping mode, the source and detector modules will be moved to the next predetermined measurement location. Results are displayed instantaneously in user-specified formats.



SPECIFICATIONS

	EXTENDED RANGE
	½ Wave Systems
Retardation Range, nm	0 to 775
Resolution / Repeatability	
Retardation, nm	0.1 / ±10nm, 1% thereafter
Fast Axis Angle	0.01° at ≥ 10nm
Measurement Rate/Time	Up to 100 pps
Spot Size	~ 2 mm typical
Sample Size	500 mm x 150 mm for squared ingots (standard, larger sizes available)
	length: 500 mm, diameter: 210 mm for as-grown ingots (standard, larger sizes available)

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Specifications presented are based on 1550nm laser source unless otherwise noted. Custom wavelengths available for 850nm, 1064nm, 1310nm, and spectroscopic options.



Exicor PV-Si

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