## BIREFRINGENCE MEASUREMENT EXICOR® HD



## PRODUCT BULLETIN

## INTRODUCING EXICOR HD

FOR RETARDANCE MEASUREMENT IN GLASS BLOCKS UP TO 11,75000LBS/5,400KG

The newly designed Exicor® HD system is a heavy-duty sample measurement system based on Exicor's core low-level birefringence measurement technology and precision automated motion control elements. The design of the Exicor HD utilizes an all steel base to support heavy samples with a gantry which moves out of the way for ease of loading the sample via crane or rollers. This brings the Exicor birefringence measurement system family to a new level of efficiency and improved robustness to accommodate larger, heavier samples.



MODEL	SYSTEM SIZE (MM)		SAMPLE DIMENSIONS (MM)		MAXIMUM WEIGHT
	X/Y	Z	X/Y	Z	lbs / kg
400HD	1265 x 1414	2050	400 x 400	400	450 / 205
600HD	1465 x 1614	2050	600 x 600	600	1,100 / 500
800HD	1663 x 1814	2050	800 x 800	500	1,910 / 865
1000HD	1865 x 2014	2050	1000 x 1000	500	2,910 / 1,320
1500HD	2366 x 2662	2050	1500 x 1500	500	6,600 / 3,000
2000HD	2790 x 3162	2050	2000 x 2000	500	11,750 / 5,400

## SPECIFICATIONS

Retardation Range: Retardation Resolution /Repeatability<sup>1, 2</sup>: Angular Resolution /Repeatability<sup>3</sup>: Measurement Rate / Time<sup>4</sup>: Light Source Wavelength<sup>5</sup>: Measurement Spot Diameter<sup>6</sup>: Measurement Units:

> 1 Typical performance at 5 nm retardation 3 Typical performance at 10nm retardation

5 Custom wavelengths available

0.005 to 300 + nm 0.001 nm / ± 0.015 nm or <0.8% for RET > 1nm 0.01° / ± 0.07° 15 samples/sec (at 1nm spacing) 633 nm Between 1 mm & 3mm nm (retardation), ° (angle) 2 Up to 2nm, 1% thereafter 4 Maximum data collection speed. Sample XY scan time dependent on stage movement parameters. 6 Spot sizes of less than 1 mm require optional high resolution detector module



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