Precision Spectrometers

GMR-1D

Optical Devices

Angle and Refractive Index Measurement System from UV Range to Near-IR Range



Features

Measures refractive index over the UV, visible, and near-IR ranges.

Measured angle is clearly displayed on a dedicated counter.

Minimum deviation method offers highly accurate refractive index measurements.

Excellent ±1" angular measurement accuracy. The 1/2-ratio gear system and photoelectric detection easily determine the angle of minimum deviation.

Applications

Angular measurement of transparent samples, such as new materials and glass, across the UV, visible, and near-IR ranges.

Extensive Options

Variable to user-defined wavelength specifications by adding a laser diode or other light source.

Specifications

Measurement accuracy	Angular measurement accuracy: ±1" Refractive index measurement accuracy: ±0.00001
Display	Angle counter digital display
Measurement wavelength range	254 nm to 2500 nm (with IR option)
Slit	Max. effective blade length: 15 mm

HOME	PRODUCTS	Optical Devices	Precision Spectrometers	GMR-1D

	Brightness: F/10
	Brightmose. 1 / 10
Eyepiece lens	Autocollimation eyepiece lens
_ , operation	Focal distance: 16 mm
Angle detector	High-accuracy rotary encoder
Measurement method	Minimum deviation method
	PC calculates refractive index from measured sample peak angle and minimum
	deviation angle.
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Gear system	Gear ratio: 1/2 Accuracy: 20" min.
Light source	Standard: automatic spectrum light-source unit - He, H2, high-pressure Hg, Cd
Light source	Optional: automatic spectrum light-source unit - semiconductor laser 1300, 1550
Detector	VIS, UV: photomultiplier tube
	IR: thermoelectrically cooled Pbs detector
Output format	Lock-in amplifier
Cina and wainlet	1010 v 550 v 650 mm 120 km
Size and weight	1210 x 550 x 650 mm, 130 kg

The system can be customized to your requirements. Consult your Shimadzu representative.

This page may contain references to products that are not available in your country. Please <u>contact us</u> to check the availability of these products in your country.

PRODUCT INQUIRY FORM

Related Products	Diffraction Gratings	
	Aspherical Mirrors	
	Laser Mirrors & Laser Windows for High Power Laser	
	Polka-Dot Beamsplitters	
	Precision Spectrometers	
	Precision Refractometers	
	Microsampling Device	

Optical Devices

Description

Events



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