Precision Spectrometers

GM-1D

Optical Devices

Angle and Refractive Index Measurement System in Visible Range

Features

The high-accuracy encoder achieves ±1" angular measurement accuracy and ±0.00001 refractive index measurement accuracy. The angle measured by the encoder is directly displayed on a digital counter. High-accuracy ball bearings used for all rotary sliding parts ensure smooth and accurate rotation. The color-corrected objective lens eliminates the need for readjustment when the measurement wavelength changes.

Applications

Precise angle measurements for prisms, etc.
Refractive index measurements for transparent materials, such as glass.

Specifications

Measurement accuracy	Angular measurement accuracy: ±1" Refractive index measurement accuracy: ±0.00001
Display	Angle counter digital display
Measurement wavelength range	404.7 nm to 706.5 nm
Slit	Max. effective blade length: 15 mm Min. reading: 0.005 mm
Objective lens	Focal distance: 450 mm Brightness: F/10 Effective diameter: 15 mm
Eyepiece lens	Autocollimation eyepiece lens

	Focal distance: 15 mm
Angle detector	High-accuracy rotary encoder
External output	RS-232C (for PC connection) Optional refractive index calculation software
Light source	Standard: Hg light source (with starter) Optional: 30 W automatic spectrum light-source unit - Hg, He, H2, Cd.
Size and weight	1210 x 550 x 650 mm, 100 kg

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

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Optical Devices

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