

Glan-prism analyser

Polarization Measurement with a Glan Prism

Measure transmitted power as a Glan analyser rotates through 360°. The angle-dependent trace supports assessment of linear-polarisation orientation and polarisation purity, with wavelength-specific prism options.

Measurement method

Send the beam through the analyser to a power meter, record the starting orientation and sample transmitted power at successive rotation angles. Plot power against angle and compare maxima and minima.

Features

- Rotating-analyser measurement
- Wavelength-specific Glan-prism options
- 1 cm clear aperture
- Power-meter-based readout

Applications

- Linear-polarisation orientation
- Polarisation purity and extinction measurements
- Alignment of polarising optics

Prism configurations

Parameter	Specification
Spectral option 1	200-3500 nm
Spectral option 2	350-2300 nm
Spectral option 3	500-4000 nm
Clear aperture	1 cm
Published damage-threshold field	>500 MW/cm ²
Published extinction-ratio field	<5 × 10 ⁻⁶

Conditions and configuration notes

A rotating linear analyser alone does not provide a complete Stokes measurement or distinguish every elliptical/circular state; additional optics are needed for full polarimetry.

Confirm the extinction-ratio convention and wavelength-specific prism. The damage-threshold field has no pulse-duration conditions and must not be interpreted as a CW rating.

Specify your measurement

- Laser wavelength, beam diameter and power
- Pulse duration and peak power if pulsed
- Angular sampling interval and detector dynamic range

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

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