

Michelson interferometer

Coherence Length Measurement

Assess temporal coherence by splitting the laser into two arms and observing fringe contrast as the optical path difference changes. Available configurations cover 200-1100 nm and nominal maximum test lengths of 2 m or 50 m.

Measurement method

Recombine the two arms of a Michelson interferometer and track fringe visibility against optical path difference. The listing uses a contrast criterion above 50% to describe the coherence measurement.

Features

- Michelson two-arm interferometry
- Fringe-contrast observation
- Alternative wavelength and path-length configurations available

Applications

- Temporal-coherence measurements
- Comparison of single- and multi-longitudinal-mode sources
- Interferometry experiments

Published specifications

Parameter	Specification
Wavelength range	200-1100 nm; other wavelengths by configuration
Test precision (listed)	1 mm
Maximum test length	2 m or 50 m configurations; other lengths by agreement
Measurement criterion	Fringe contrast above 50% as stated in the listing

Conditions and configuration notes

The 2 m and 50 m figures describe different configurations. Confirm optical path difference, mirror travel and contrast-processing method before comparing results.

Specify your measurement

- Laser wavelength, power and expected coherence length
- Required optical-path-difference range
- Fringe detection method and contrast criterion

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

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