

ISO 12005:2022-05 (E)

Lasers and laser-related equipment - Test methods for laser beam parameters - Polarization

Contents		Page
Foreword.....		iv
Introduction.....		v
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Test method for state of polarization.....	3
4.1	Principle of measurement.....	3
4.2	Equipment arrangement.....	4
4.2.1	General.....	4
4.2.2	Special arrangement for the testing of beams with large divergence angles.....	4
4.2.3	Special arrangement for the testing of beams with large apertures.....	5
4.3	Components.....	5
4.3.1	Radiation detector.....	5
4.3.2	Linear polarizer.....	6
4.3.3	Quarter-wave plate.....	6
4.3.4	Optical attenuator.....	6
4.4	Test procedure.....	6
4.4.1	General.....	6
4.4.2	Measurement 1.....	6
4.4.3	Measurement 2.....	7
4.5	Analysis of the results.....	7
5	Test report.....	9
Annex A (informative)	Complete description of the polarization status of a monochromatic laser beam.....	12
Bibliography.....		15