

Integrated optics — Vocabulary —

Part 1: Basic terms and symbols

The European Standard EN ISO 11807-1:2005 has the status of a British Standard

ICS 01.040.31; 31.260

National foreword

This British Standard is the official English language version of EN ISO 11807-1:2005. It is identical with ISO 11807-1:2001. It supersedes BS ISO 11807-1:2001 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CPW/172, Optics and optical instruments, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to vi, pages 1 to 21 and a back cover.

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English version

Integrated optics - Vocabulary - Part 1: Basic terms and symbols
(ISO 11807-1:2001)

Optique intégrée - Vocabulaire - Partie 1: Termes
fondamentaux et symboles (ISO 11807-1:2001)

Integrierte Optik - Begriffe - Teil 1: Grundbegriffe und
Formelzeichen (ISO 11807-1:2001)

This European Standard was approved by CEN on 7 February 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of ISO 11807-1:2001 has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11807-1:2005 by Technical Committee CEN/TC 123 "Lasers and laser-related equipment" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 11807-1:2001 has been approved by CEN as EN ISO 11807-1:2005 without any modifications.

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Integrated optics — Vocabulary —

Part 1:

Basic terms and symbols

Optique intégrée — Vocabulaire —

Partie 1:

Termes fondamentaux et symboles



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 11807 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 11807-1 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 9, *Electro-optical systems*.

ISO 11807 consists of the following parts, under the general title *Integrated optics — Vocabulary*:

- *Part 1: Basic terms and symbols*
- *Part 2: Terms used in classification*

Annex A of this part of ISO 11807 is for information only.

Avant-propos

L'ISO (Organisation internationale de normalisation) est une fédération mondiale d'organismes nationaux de normalisation (comités membres de l'ISO). L'élaboration des Normes internationales est en général confiée aux comités techniques de l'ISO. Chaque comité membre intéressé par une étude a le droit de faire partie du comité technique créé à cet effet. Les organisations internationales, gouvernementales et non gouvernementales, en liaison avec l'ISO participent également aux travaux. L'ISO collabore étroitement avec la Commission électrotechnique internationale (CEI) en ce qui concerne la normalisation électrotechnique.

Les Normes internationales sont rédigées conformément aux règles données dans les Directives ISO/CEI, Partie 3.

Les projets de Normes internationales adoptés par les comités techniques sont soumis aux comités membres pour vote. Leur publication comme Normes internationales requiert l'approbation de 75 % au moins des comités membres votants.

L'attention est appelée sur le fait que certains des éléments de la présente partie de l'ISO 11807 peuvent faire l'objet de droits de propriété intellectuelle ou de droits analogues. L'ISO ne saurait être tenue pour responsable de ne pas avoir identifié de tels droits de propriété et averti de leur existence.

La Norme internationale ISO 11807-1 a été élaborée par le comité technique ISO/TC 172, *Optique et instruments d'optique*, sous-comité SC 9, *Systèmes électro-optiques*.

L'ISO 11807 comprend les parties suivantes, présentées sous le titre général *Optique intégrée — Vocabulaire*:

- *Partie 1: Termes fondamentaux et symboles*
- *Partie 2: Termes utilisés pour la classification*

L'annexe A de la présente partie de l'ISO 11807 est donnée uniquement à titre d'information.

Introduction

The aim of this part of ISO 11807 is to clarify the terms of the relatively new field of “integrated optics” and to define a unified vocabulary at a time when the first products are coming onto the market. It is expected that this part of ISO 11807 will be revised periodically to adopt the requirements of customers and suppliers of integrated optical products. At a later stage, it is planned to add definitions from other International Standards which deal with integrated optics.

Some of the definitions are closely related to definitions given in IEC 60050, *International electrotechnical vocabulary*. Wherever this can lead to misunderstanding, integrated optics or integrated optical waveguide should be used together with the defined term.

Introduction

Le but de la présente partie de l'ISO 11807 est de clarifier les termes du domaine relativement nouveau de «l'optique intégrée» au moment où les premiers produits arrivent sur le marché. Il est envisagé que la présente partie de l'ISO 11807 soit révisée périodiquement pour adopter les exigences des utilisateurs et des fournisseurs de produits d'optique intégrée. Il est prévu par la suite d'ajouter les définitions d'autres Normes internationales traitant d'optique intégrée.

Certaines définitions sont en étroite relation avec celles données dans la CEI 60050, *Vocabulaire électrotechnique international*. À chaque fois que cela peut conduire à une mauvaise compréhension, il convient d'utiliser optique intégrée et guide d'onde d'optique intégrée avec le terme défini.