



SLOVENSKI STANDARD
SIST EN ISO 14881:2005

01-junij-2005

Integrirana optika – Vmesniki – Parametri, ustrezni za sklope lastnosti (ISO 14881:2001)

Integrated optics - Interfaces - Parameters relevant to coupling properties (ISO 14881:2001)

Integrierte Optik - Schnittstellen - Kopplungsrelevante Parameter (ISO 14881:2001)

Optique intégrée - Interfaces - Paramètres caractérisant les propriétés de couplage (ISO 14881:2001)

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

Ta slovenski standard je istoveten z: EN ISO 14881:2005

ICS:

31.260	Optoelektronika, laserska oprema	Optoelectronics. Laser equipment
--------	----------------------------------	----------------------------------

SIST EN ISO 14881:2005

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 14881:2005

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14881

March 2005

ICS 31.260

English version

Integrated optics - Interfaces - Parameters relevant to coupling properties (ISO 14881:2001)

Optique intégrée - Interfaces - Paramètres caractérisant les propriétés de couplage (ISO 14881:2001)

Integrierte Optik - Schnittstellen - Kopplungsrelevante Parameter (ISO 14881:2001)

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.

CEN members are the national standards bodies of 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.

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN ISO 14881:2005 (E)**Foreword**

The text of ISO 14881:2001 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 14881:2005 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
iTeh STANDARD PREVIEW
(standards.iteh.ai)

The text of ISO 14881:2001 has been approved by CEN as EN ISO 14881:2005 without any modifications.

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)
<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

INTERNATIONAL STANDARD

**ISO
14881**

First edition
2001-06-15

Integrated optics — Interfaces — Parameters relevant to coupling properties

*Optique intégrée — Interfaces — Paramètres caractérisant les propriétés
de couplage*

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)

[https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-
e7258d128b58/sist-en-iso-14881-2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)



Reference number
ISO 14881:2001(E)

© ISO 2001

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

© ISO 2001

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14881 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 9, *Electro-optical systems*.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 14881:2005](https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005)

<https://standards.iteh.ai/catalog/standards/sist/d7382de5-4db2-4bb3-900a-e7258d128b58/sist-en-iso-14881-2005>

Integrated optics — Interfaces — Parameters relevant to coupling properties

1 Scope

This International Standard defines the relevant properties for coupling light into and out of integrated optical chips (IOC) and chips with optoelectronic integrated circuits (OEIC). This International Standard is limited to butt coupling via the waveguide endfaces. The definitions provide the basis for specifying the elements to be coupled (e. g. fibres, integrated optical chips) related to coupling properties.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 4288:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture*.

ISO 11807-1:—¹⁾, *Integrated optics — Vocabulary — Part 1: Basic terms and symbols*.

ISO 11807-2, *Integrated optics — Vocabulary — Part 2: Terms used in classification*.

IEC 60793-1-2:1995, *Optical fibres — Part 1: Generic specification — Section 2: Measuring methods for dimensions*.

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 11807-1:— and ISO 11807-2 and the following apply.

3.1

anti-reflective coating of endfaces

thin surface coating designed to reduce the Fresnel loss

3.2

alignment structure

precise mechanical structure to enable coupling of optical and electro-optical elements without the need for adjustment

EXAMPLE Elements coupled may include optical fibres, fibre arrays, detectors, lasers, LEDs, integrated optical chips.

3.3

array block

mechanical alignment structure of micrometre or submicrometre precision for the reception of optical fibres

1) To be published.