



SLOVENSKI STANDARD SIST EN ISO 15902:2020

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Nadomešča:
SIST EN ISO 15902:2005

Optika in fotonska tehnologija - Difraktivna optika - Slovar (ISO 15902:2019)

Optics and photonics - Diffractive optics - Vocabulary (ISO 15902:2019)

Optik und Photonik - Difraktive Optik - Begriffe (ISO 15902:2019)

Optique et photonique - Optique diffractive - Vocabulaire (ISO 15902:2019)

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ICS:

01.040.31	Elektronika (Slovarji)	Electronics (Vocabularies)
31.260	Optoelektronika, laserska oprema	Optoelectronics. Laser equipment

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
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Supersedes EN ISO 15902:2005

English Version

Optics and photonics - Diffractive optics - Vocabulary (ISO 15902:2019)

Optique et photonique - Optique diffractive -
Vocabulaire (ISO 15902:2019)

Optik und Photonik - Diffraktive Optik - Begriffe (ISO
15902:2019)

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European foreword

This document (EN ISO 15902:2020) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" in collaboration with Technical Committee CEN/TC 123 "Lasers and photonics" 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of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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

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INTERNATIONAL
STANDARD

ISO
15902

Second edition
2019-12

**Optics and photonics — Diffractive
optics — Vocabulary**

Optique et photonique — Optique diffractive — Vocabulaire

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ISO 15902:2019(E)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 172, *Optics and Photonics*, Subcommittee SC 9, *Laser and electro-optical systems*.

This second edition cancels and replaces the first edition (ISO 15902:2004), of which it constitutes a minor revision. It also incorporates the Technical Corrigendum ISO 15902:2004/Cor 1:2005.

The changes compared to the previous edition are as follows:

- in [3.3.3.4](#), an explanation on the factor has been added in a note to entry;
- in [3.4.3.4](#), the sign has been corrected;
- other editorial changes have been made.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The term diffractive optical element is used for those optical elements which convert an input wavefront to a predetermined output wavefront (or wavefronts) in free space by means of the phenomenon of diffraction. There has been a rapid increase in the use of diffractive optical elements, especially in the field of optical data storage, and they are essential components in optical and electro-optical systems. They are used in a wide variety of applications.

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