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Standards

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I.S. EN ISO 15254:2009

Ophthalmic optics and instruments - Electro-optical devices for enhancing low vision (ISO 15254:2009)

I.S. EN ISO 15254:2009

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EUROPEAN STANDARD

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Supersedes EN ISO 15254:2002

English Version

Ophthalmic optics and instruments - Electro-optical devices for enhancing low vision (ISO 15254:2009)

Optique et instruments ophtalmiques - Dispositifs électro-optiques pour malvoyants (ISO 15254:2009)

Augenoptik und ophthalmische Instrumente - Elektrooptische Sehhilfen für Sehbehinderte (ISO 15254:2009)

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Foreword

This document (EN ISO 15254:2009) has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" in collaboration with Technical Committee CEN/TC 170 "Ophthalmic optics" 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of an identical text or by endorsement, at the latest by January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

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Endorsement notice

The text of ISO 15254:2009 has been approved by CEN as a EN ISO 15254:2009 without any modification.

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I.S. EN ISO 15254:2009
INTERNATIONAL
STANDARD

ISO
15254

Second edition
2009-07-01

**Ophthalmic optics and instruments —
Electro-optical devices for enhancing low
vision**

*Optique et instruments ophtalmiques — Dispositifs électro-optiques
pour malvoyants*



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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 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 15254 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

This second edition cancels and replaces the first edition (ISO 15254:2002), which has undergone minor revision to update normative references.

Ophthalmic optics and instruments — Electro-optical devices for enhancing low vision

1 Scope

This International Standard applies to electro-optical devices specified by the manufacturer for use by visually impaired persons, as low-vision aids.

It specifies electro-optical and mechanical requirements and test methods.

This International Standard does not cover optical devices for enhancing low vision which are specified in ISO 15253.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12870, *Ophthalmic optics — Spectacle frames — Requirements and test methods*

ISO 15004-1, *Ophthalmic instruments — Fundamental requirements and test methods — Part 1: General requirements applicable to all ophthalmic instruments*

IEC 60601-1-1, *Medical electrical equipment — Part 1-1: General requirements for safety — Collateral standard: Safety requirements for medical electrical systems*

IEC 61000-4-2, *Electromagnetic compatibility (EMC) — Part 4-2: Testing and measuring techniques — Electrostatic discharge immunity test*

IEC 61000-4-3, *Electromagnetic compatibility (EMC) — Part 4-3: Testing and measurement techniques — Radiated, radio-frequency, electromagnetic field immunity test*

EN 55022, *Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement* (IEC/CISPR 22:2005, modified + A1:2005)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

electro-optical low-vision device

system intended for low vision that produces an image by electronic means

3.2

display size

horizontal and vertical dimensions of the display within which the image is visible

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