
**Ophthalmic instruments —
Endoilluminators — Fundamental
requirements and test methods for
optical radiation safety**

*Instruments ophtalmiques — Sondes endolumineuses — Exigences
fondamentales et méthodes d'essai relatives à la sécurité vis-à-vis des
rayonnements optiques*



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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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ISO 15752 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 15752:2000), which has been technically revised.

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Ophthalmic instruments — Endoilluminators — Fundamental requirements and test methods for optical radiation safety

1 Scope

This International Standard specifies optical radiation safety aspects of endoilluminator light sources and endoilluminator light guides which are used to illuminate the interior of the eye during ocular surgery.

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 15004-2:2007, *Ophthalmic instruments — Fundamental requirements and test methods — Part 2: Light hazard protection*

IEC 60601-1, *Medical electrical equipment — Part 1: General requirements for basic safety and essential performance*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15004-2 and the following apply.

3.1

exit aperture

portion of the endoilluminator light guide from which light from the endoilluminator light source emerges

3.2

endoilluminator

device consisting of an endoilluminator light source and an associated fibre-optic endoilluminator light guide that is intended for insertion into the eye to illuminate any portion of the interior of the eye

NOTE Adapted from ISO 15004-2:2007.

3.3

endoilluminator light guide

device that transmits light from the endoilluminator light source into the eye

3.4

chandelier

endoilluminator light guide intended to be positioned adjacent to the sclera with an output divergence half-angle equal to or greater than 90°

3.5

pic

forceps

device incorporated into the tip of an endoilluminator light guide for tissue manipulation