# **INTERNATIONAL STANDARD**

**ISO** 14135-2

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# Optics and photonics — Specifications for telescopic sights —

Part 2: High-performance instruments

photo.
Instrumen. Optique et photonique — Spécifications pour lunettes de pointage — Partie 2: Instruments haute performance





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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.

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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 4, *Telescopic systems*.

This fourth edition cancels and replaces the third edition (ISO 14135-2:2017), which has been technically revised. The main changes compared to the previous edition are as follows:

— critical eye relief added to the product information.

A list of all parts in the ISO 14135 series can be found on the ISO website.

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 <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

# Optics and photonics — Specifications for telescopic sights —

## Part 2:

# **High-performance instruments**

### 1 Scope

This document applies to high-performance telescopic sights, used on hand-held firearms and airguns. It contains a classification of the usage of telescopic sights and specifies interfaces, minimum requirements and tolerances to their performances.

General-purpose telescopic sights are specified in ISO 14135-1.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 14132-1, Optics and photonics — Vocabulary for telescopic systems — Part 1: General terms and alphabetical indexes of terms in ISO 14132

ISO 14132-3, Optics and photonics - Vocabulary for telescopic systems - Part 3: Terms for telescopic sights

ISO 14490-1, Optics and optical instruments — Test methods for telescopic systems — Part 1: Test methods for basic characteristics

ISO 14490-3, Optics and photonics — Test methods for telescopic systems — Part 3: Test methods for telescopic sights

ISO 14490-5, Optics and photonics — Test methods for telescopic systems — Part 5: Test methods for transmittance

ISO 14490-7, Optics and photonics — Test methods for telescopic systems — Part 7: Test methods for limit of resolution

ISO 20711, Optics and photonics — Environmental requirements — Test requirements for telescopic systems

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14132-1 and ISO 14132-3 apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>