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Optics and photonics — Specifications for telescopic sights —

Part 1: General-purpose instruments

Optique et photonique — Spécifications pour lunettes de pointage —

Partie 1: Instruments pour usage général

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Foreword

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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 4, *Telescopic systems*.

This fourth edition cancels and replaces the third edition (ISO 14135-1:2017), 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.

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Optics and photonics — Specifications for telescopic sights —

Part 1: General-purpose instruments

1 Scope

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

High-performance telescopic sights are specified in ISO 14135-2.

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 https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

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