
**Optics and optical instruments — Test
methods for telescopic systems —**

Part 3:

Test methods for telescopic sights

*Optique et instruments d'optique — Méthodes d'essai pour systèmes
télescopiques —*

Partie 3: Méthodes d'essai pour viseurs de tir



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Foreword

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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.

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.

ISO 14490-3 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 4, *Telescopic systems*.

ISO 14490 consists of the following parts, under the general title *Optics and optical instruments — Test methods for telescopic systems*:

- *Part 1: Test methods for basic characteristics*
- *Part 2: Test methods for binocular systems*
- *Part 3: Test methods for telescopic sights*
- *Part 4: Test methods for astronomical telescopes*
- *Part 5: Test methods for transmittance*
- *Part 6: Test methods for veiling glare index*
- *Part 7: Test methods for limit of resolution*

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Optics and optical instruments — Test methods for telescopic systems —

Part 3:

Test methods for telescopic sights

1 Scope

This part of ISO 14490 specifies test equipment and test procedures for the determination of the following optical characteristics of telescopic sights:

- axial parallax;
- parallax;
- eye relief range;
- reticle tracking.

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 14132-1:2002, *Optics and optical instruments — Vocabulary for telescopic systems — Part 1: General terms and alphabetical indexes of terms in ISO 14132*

ISO 14132-3:2002, *Optics and optical instruments — Vocabulary for telescopic systems — Part 3: Terms for telescopic sights*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14132-1 and ISO 14132-3 shall apply.

4 Test methods

4.1 Axial parallax

4.1.1 General

This test method describes the measurement of the axial distance between the reticle of a telescopic sight and an image, formed by the objective lens of this telescopic sight. The distance p'_{ax} is expressed in dioptres (m^{-1}).