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**Optics and optical instruments —  
Specifications for astronomical  
telescopes**

*Optique et instruments d'optique — Spécifications pour télescopes  
astronomiques*



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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 14134 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 4, *Telescopic systems*.

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# Optics and optical instruments — Specifications for astronomical telescopes

## 1 Scope

This International Standard applies to astronomical telescopes, including finder telescopes, and to their functional specifications.

These specifications are restricted to amateur astronomical telescopes, which should be distinguished from hand-held or mounted general purpose monocular telescopes.

## 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 68-1, *ISO general purpose screw threads — Basic profile — Part 1: Metric screw threads*

ISO 10109-4:2001, *Optics and optical instruments — Environmental requirements — Part 4: Test requirements for telescopic systems*

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

ISO 14132-4, *Optics and optical instruments — Vocabulary for telescopic systems — Part 4: Terms for astronomical telescopes*

ISO 14490-4, *Optics and optical instruments — Test methods for telescopic systems — Part 4: Test methods for astronomical telescopes*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14132-1 and ISO 14132-4 shall apply.

## 4 Specifications

### 4.1 Optical characteristics: values and tolerances

The values and tolerances for optical characteristics of astronomical telescopes are specified in Table 1.

The characteristics specified in Table 1 shall be measured in accordance with ISO 14490-4.