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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 35124-2017

Specifications for astronomical telescopes

天文望远镜技术要求

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses redrafted Law Reference ISO 14134:2006 "optical and optical instruments astronomical telescope technical requirements" to prepare, and ISO 14134:2006 the degree of consistency is not equivalent.

This standard is proposed by the China Machinery Industry Federation.

This standard by the National Standardization Technical Committee of Optics and Photonics (SAC/TC103) centralized.

This standard was drafted unit. Ningbo Cham Beijing Optical Instrument Co., Ltd., Guangzhou, Guangdong Optical Instrument Co., Ltd., Shanghai University of Technology, on Sea Optical Instrument Institute, Han's Laser Technology Industry Group Co., Ltd., Chongqing Ott Optical Instrument Co., Ltd., Ningbo Yongxin Optical Co., Ltd., Nanjing Jiangnan Yongxin Optical Co., Ltd., Ningbo Sunny Optical Instrument Co., Ltd., Nanjing East Lee to photoelectric Industrial Co., Ltd.

Division, Ningbo City Teaching Instrument Co., Ltd., Wuzhou Oka Optical Instrument Company, Ningbo Huaguang Precision Instrument Co., Ltd., Mike Audi Industrial Group Company, Guiyang Xintian Optoelectronics Technology Co., Ltd.

1 Scope

This standard specifies the basic parameters of astronomical telescopes, requirements, signs, packaging.

This standard applies to observation in natural light astronomical telescope, the objective lens of the aperture of 150mm and below the refractive days Binoculars and Objectives

Clear aperture of 250mm and below the reflective telescope.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 35126 Telescope terminology GB/T 11162 optical division of the general technical conditions GB/T 13384 mechanical and electrical product packaging General technical conditions GB/T 13962 Optical instruments terminology GB/T 25480 Instrumentation transport, storage of the basic environmental conditions and test methods

3 Terms and definitions

GB/T 35126, GB/T 13962 defined terms and definitions apply to this document.

4 Basic parameters

4.1

Telescope's basic parameters should be consistent with the provisions of Table 1.

Table 1

Serial number Project name unit Basic parameters Refractive Telescope Reflexive Telescope

1 Objective lens aperture mm ≤ 150 ≤ 250

2 Objective focal length mm 300 ~ 1500 3 eyepiece focal length mm 4 ~ 25

4 Hood length mm 1.5Da

5 Barolo magnification - 2 x, 3 x

Main telescope focusing tube and eyepiece and attached with the size of the pieces mm
Phi32.5 H10 f10 or Phi31.75 H10 f10

7 Finderscope adjustment range b m-1 2 ~ -4

aD --- Clear aperture, in millimeters (mm);

b For finder-finding eyepieces that do not have a sight adjustment mechanism, fix it at -1m-1.