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

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Electronic theodolite

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Foreword

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

This standard uses the redrafting method to refer to ISO 17123-3:2001 "Optical and optical instruments geodetic instrument field test procedures

Part 3. Theodolites, the degree of conformity with ISO 17123-3:2001 is not equivalent.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Optical and Photonics Standardization Technical Committee (SAC/TC103).

This standard is mainly drafted by. Shanghai University of Technology, Suzhou Yiguang Instrument Co., Ltd.

1 Scope

This standard specifies the terms and definitions, grades and basic parameters, requirements, test methods, inspection rules and standards of the electronic theodolite product series.

Zhi, packaging, transportation and storage.

This standard applies to grades of 1", 2", 5" and 10" electronic theodolites (hereinafter referred to as instruments).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this

document.

GB/T 2828.1. Sampling and sampling procedures - Part 1 . Batch-to-batch sampling plan searched by the acceptance quality limit (AQL)

GB/T 2829 Cycle Inspection Counting Sampling Procedures and Tables (Applicable to Inspection of Process Stability)

GB/T 4208-2017 enclosure protection grade (IP code)

GB 7247.1 Safety of laser products - Part 1. Equipment classification, requirements

General technical conditions for GB/T 13384 mechanical and electrical product packaging

GB/T 17626.2-2006 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test

GB/T 17626.3-2016 Electromagnetic compatibility test and measurement technology RF electromagnetic field radiation immunity test

GB/T 25480 Instrumentation, transportation and storage basic environmental conditions and test methods

JB/T 9316 geodetic instrument forcing center mechanism fit size

JB/T 9328 resolution board

JB/T 9332 Connection between geodetic instrument and tripod

JB/T 9336 geodetic instrument reticle

JB/T 9337 geodetic instrument tripod

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

One-way horizontal deviation standard deviation
standard deviation of horizontal direction in an observation set

The horizontal direction observation of several rounds is performed on several targets, and the obtained standard deviation is calculated to the value of a roundabout direction.

3.2

One-way vertical angle standard deviation
standard deviation of vertical angle in an observation set

A vertical angle observation of several rounds of several targets is performed, and the obtained standard deviation is calculated to the standard deviation of the vertical angle of a

round.

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