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

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**Optics and optical instruments -- Geodetic and surveying
instruments -- Vocabulary**

光学和光学仪器 大地测量仪器 术语

(English Translation)

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Foreword

This standard is equivalent to ISO 9849.:2000 "Terminology for geodetic instruments for optical and optical instruments".

This standard is equivalent to ISO 9849.:2000.

For ease of use, this standard has been modified as follows.

- the word "international standard" is changed to "this standard";
- to remove the preamble of international standards;
- the international standard "scope" chapter number.

This standard is proposed by the China Machinery Industry Federation.

This standard is nationalized by the National Committee for the Standardization of Optics and Photonics (SAC/TC103).

The drafting of this standard. Shanghai University of Science and Technology, Suzhou, a light Instrument Co., Ltd., Jiangnan Yongxin Optical Co., Ltd., Ningbo Shun Yu instrument Ltd., Ningbo Yongxin Optics Co., Ltd., Ningbo Huayao Precision Instrument Co., Ltd., Wuzhou Oka Optical Instrument Company, Nanjing Dongli Optoelectronics Industry Co., Ltd., Mike Audi Chemical Industry Group Co., Ltd., Guiyang Xintian Optoelectronics Technology Co., Ltd.

the company.

1 Scope

This standard specifies geometric instruments such as range finder, level meter, theodolite and other geodesy instruments, as well as in military terrain survey, geological survey,

Quantities and terms used in engineering measurements. And terms related to photogrammetry, astronomy, hydrological measurements and industrial measurements except.

This standard does not apply to components that are not related to the instrument function. The terms are in alphabetical order.

2 Instrument terminology

Line alignment

Contains a high magnification telescope, fixed at the end of the optical axis of the telescope fixed target.

Note: The middle of each target should be placed in the vertical axis of the alignment machine.

2.1.1

Alignment lasers alignmentlaser Use a laser beam instead of an optical sight line.

Note: Using the lens group, the laser beam is expanded into two linear rays perpendicular to each other, and then converged into a cross light source.

Antenna

Emitting and/or receiving electromagnetic waves.

See also. Electronic range finder (2.4), GPS ground receiver (2.6).

Barometer

Instruments for measuring atmospheric pressure.

Note: Since the barometric pressure varies with height, it can also be used to measure elevation.

2.3.1

Empty box barometer aneroidbarometer A barometer of atmospheric pressure is measured by some resilient means.

Note: also known as no liquid barometer.

2.3.2

Barometrical altimeter barometricaltimeter A barometer for elevation measurement.

2.3.3

Mercury barometer A barometer for measuring atmospheric pressure with a mercury column.

Electronic range finder electronicdistancemeter Electromagnetic range finder EDMinstrument; electromagneticdistancemeter an instrument that directly measures the

distance between the instrument and the target, including a transmitter and a receiver.

Note: The transmitter emits a modulated wave of a certain speed, after reaching the target, uses an optical or electronic device to reflect the modulated wave back to the instrument, received by the receiver Calculate the distance.