ICS 37.020
CCS N30

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 13962-2009

Replacing GB/T 13962-1992

Optical instruments-vocabulary

光学仪器术语

Issued on: November 15, 2009 **Implemented on: February 1, 2010**

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Standardization Administration of China

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Foreword

This standard replaces GB/T 13962-1992 "optical instrument the term" this standard and GB/T 13962-1992 main differences are as follows:

--- Revised GB/T 13962-1992 nomenclatures and definitions in 4.41;

--- Of GB/T 13962-1992 in 4.42,4.44,4.45,4.46,5.43 ~ 5.49,6.48,6.151,6.152,6.154 , 7.3, 7.6,7.11,7.16,7.38,7.52,8.75,8.81,8.92,

8.119 redefined;

--- Revised GB/T 13962-1992

7.8 in terms of the corresponding English word;

--- Revised GB/T 13962-1992 in 8.57,8.58,8.61,

8.76 English equivalents, and its terms were re definition;

--- Remove the GB/T 13962-1992

--- Of GB/T 13962-1992 made some editorial changes;

--- Increased 12 terms and definitions;

--- Increasing the standard of reference. The standard proposed by China Machinery Industry Federation. This standard by the National Standardization Technical Committee photon science and optics (SAC/TC103) centralized. This standard is drafted by: Shanghai Polytechnic University, Guiyang Xintian Optoelectronics Technology Co., Ltd., East China Normal University, Ningbo Yongxin Optics Unit Parts Limited, Phoenix Optical Group Limited, Jiangnan Yong new Optical Co., Ltd., Suzhou, a light Instrument Co., Ltd., Wuzhou Oka optical instrument Device companies. Participated in the drafting of this standard. Teaching Instrument Co., Ltd. Ningbo, Ningbo Huaguang Precision Instrument Co., Ltd., Zhejiang Jiang Shunyu AG Ltd., Nanjing East Lee to Optoelectronic Industry Co., Mike Audi

Industrial Group Co., Ltd. The main drafters. Zhang Hui Yin, Fengqiong Hui, Huang Weijia, Hu Yu, Hu Qing, Wang Wei students. This standard replaces the standards previously issued as follows:

--- GB/T 13962-1992. Optical Instrument term

1 Scope

GB/T 13962-2009 is the Chinese national standard on optical instruments-vocabulary, in the field of image technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 15 November 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2010. Classification: ICS 37.020, CCS N30. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the basic terms of optical, geometrical optics, physical optics, image quality assessment, components and optical technology, optical instruments name, light Terminology measurement and technical requirements and other aspects of a total of 1028. This standard applies to optical instruments standards, technical documentation, preparation of teaching materials and books and literature translation. NOTE. The standard word square brackets [] within the word may be omitted; parentheses (inside), is used as described below.

2 Optical basic terminology

2.1 Physics, the study of the nature of light radiation, generation, transmission, reception, and a subject of light and matter interact.

2.2 In light approximation based on the concept of optical communication and discipline branch optical imaging systems Regularity of light.

2.3 Research on the nature of optical radiation optical branch of science.

2.4 To form the wave theory of light radiation and forth like interference, diffraction and polarization phenomena such as optical branch of science.

2.5 According to quantum nature of light and quantum theory, optical radiation interacts with matter optical branch of science.

2.6 Research on optical radiation in the optical crystal is particularly subject propagation in anisotropic crystals and various branches of polarization effects.

2.7 Research on optical radiation propagation in the fiber optics branch of science.

2.8 Electron Beam in electric, magnetic or electromagnetic field of the law of motion and imaging disciplines.

2.9 Optical Spectroscopy disciplinary research theory and its application in the branch.

2.10 Research on a variety of optical measurement and optical measurement discipline branch.