

ICS 33.160.10

CCS M72



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

GB/T 14471-2013

Replacing GB/T 14471-1993

General specification for headphones

头戴耳机通用规范

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Foreword

This standard was drafted according to the rules specified in GB/T 1.1-2009. This standard replaces GB/T 14471-1993. General Specification for Headphones. Compared with GB/T 14471-1993 General Specification for Headphones, the main changes of this standard are as follows: - In "Chapter

1 Scope", the "This standard specifies the technical requirements and other requirements on measurement methods, environment test, test methods, regulations of acceptance, marking, packaging, transport, storage of all kinds of hi-fi headphones and popular headphones used for domestic reproducing systems. This standard is applicable to various kinds of headphones for domestic reproducing systems; however, domestic non-wearing headphone and single earphone could also refer to this standard during application" is change to the "This standard specifies the classification, naming and coding of headphones, the requirements on inspection items, technical requirements, test methods and inspection rules of headphone products and other requirements including product information, packaging, transport and storage. This standard is applicable to headphones - microphone set (headphone - telephone transmitter) and headphones used on and inside of human ears. In addition, this standard is also suitable for the composite parts necessarily required for constituting a complete headphone system, such as pre-amplifier, passive network and power supply". - Clauses quoted in GB/T 6832-1986 are changed to those in GB/T 12060.7-2013. - The title of Chapter 3 is changed from "Interpretation of Terminology" into "Classification, Naming and Coding". - Compared with "Article

4.4.1 Mechanical connection" of the original standard, the newly added contents are schematic diagrams and contact instructions of 3.5mm plug for double-sound channel headphone - microphone set; 2.5mm plug for double-sound channel headphone; and 2.5mm plug for double-sound channel headphone - microphone set. - The technical requirements and test methods corresponding to each index contained in the original standard are respectively divided into "Chapter

1 Scope

GB/T 14471-2013 is the Chinese national standard on general specification for headphones, in the field of telecommunications and audio-video engineering. 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 31 December 2013 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 15 July 2014. Classification: ICS 33.160.10, CCS M72. 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 classification, naming and coding of headphones; the requirements on inspection items, technical requirements, test methods and inspection rules about headphone products; and other requirements including product information, packaging, transport and storage. This standard is applicable to headphones - microphone set (headphone - telephone transmitter) and headphones used on and inside of human ears. In addition, this standard is also applicable to the composite parts necessarily required for constituting a complete headphone system, such as pre-amplifier, passive network and power supply. This standard is not applicable to wireless headphones or noise cancelling headphones.

2 Normative references

The articles contained in the following documents have become part of this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 2423.1-2008 Environmental testing - Part 2. Test methods - Tests A. Cold

GB/T 2423.2-2008 Environmental testing - Part 2. Test methods - Tests B. Dry heat

GB/T 2423.3-2006 Environmental testing for electric and electronic products - Part 2. Testing method test Cab. Damp heat Steady state

GB/T 2423.6-1995 Environmental testing for electric and electronic products - Part 2. Test methods - Test Eb and guidance. Bump

GB/T 2423.10-2008 Environmental testing for electric and electronic products - Part 2. Tests methods - Test Fc. Vibration (sinusoidal)

GB/T 2828.1-2012 Sampling procedures for inspection by attributes - Part 1. Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829-2002 Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)

GB/T 12060.2-2011 Sound system equipment - Part 2. Explanation of general terms and calculation methods (IEC 60268-2. 1987, IDT)

GB/T 12060.7-2013 Sound system equipment - Part 7. Methods of measurement on headphones and earphones (IEC 60268-7. 2010, MOD)

GB/T 12060.11-2012 Sound system equipment - Part 11. Application of connectors for the interconnection of sound system equipment (IEC 60268-11. 1987, NEQ)

GB/T 13581 Minimm performance requirements on high fidelity head-phones

GB/T 14197 Preferred matching values for the interconnections of audio, video and audiovisual systems

3 Classification, Naming and Coding

See GB/T 12060.7-2013.

5 Technical Requirements" and "Chapter

6 Test Methods" in this standard, resulting in modification in serial number, specifically as follows: - The technical requirements and test methods of boundary dimension, appearance and mechanical quality contained in Article

4.3 in the original standard are respectively divided into "Article

5.1 Boundary Dimension, Appearance and Mechanical Quality" and "Article

6.1 Boundary Dimension, Appearance and Mechanical Quality" in this standard; - The technical requirements and test methods of operation test of pure sound in Article

4.5 contained in the original standard are respectively divided into "Article

5.3 Sound Inspection" and "Article

6.2 Sound Inspection" in this standard; - The technical requirements and test methods of each index about electronic sound in Article

4.6 contained in the original standard are respectively divided into "Article

5.4 Electronic Sound Parameters" and "Article

6.3 Electronic Sound Parameters" in this standard. And ADD new items such as impedance/ frequency characteristic; rated source impedance; rated source electromotive force; limit value of input voltage; characteristics of A- weighted; simulated programme signal characteristic voltage AND protective voltage index OF free field response compensation and correction; - In accordance with the contents in Article

6.10 in GB/T 12060.7-2013, it is newly added indexes such as external electric field and / or external magnetic field, and protective device in "Article

6.4 Other Parameters" in this standard; - The "Article

4.6.5 Characteristic sound pressure level (sensitivity)" in the original standard is change to the "Article

5.4.9 Sound pressure level" in this standard; - The type inspection, acceptance inspection and routine inspection in "Chapter

5 Inspection Rules" in the original standard is replaced by the identification inspection and the inspection of quality conformity (lot by lot inspection and periodical inspection) in "Chapter

7 Inspection Rules" in this standard. - The "Chapter

6 Marking, Packaging, Transport and Storage" in the original standard is change to the "Chapter

8 Production Information, Packaging, Transport and Storage" in this standard; And ADD "At the time of delivery, headphones shall be at least clearly marked with manufacturer trademark, model number and impedance. The requirements on the marking of connection terminal and controller shall refer to GB/T12060.11-2012. The marking of polarity shall be according to the requirements specified in GB/T 12060.2- 2011". And based on the contents related to "Chapter

7 Characteristic Classification" in GB/T 12060.7-2013, the requirements to product instructions are added. Please pay attention to that some information in this document may involve patents. The issuance organization of this document do not bear any liability to identify the patents. This standard was proposed by Ministry of Industry and Information Technology of the People's Republic of China. This standard is under the jurisdiction of Technical Committee for Standardization of Audio, Video and Multimedia Systems and Equipment (SAC/ TC 242). Main drafting organizations of this standard. Nanjing University, Zhongming (Dongguan) Electronic Co., Ltd., Fujikon Industrial Holdings Ltd., and GoerTek