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

中华人民共和国国家标准

GB/T 14471-2013

Replace GB/T 14471-1993

General specification for headphones

头戴耳机通用规范

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China**

Contents

Foreword	V
1. Scope	8
2. Normative references	8
3. Classification, Naming and Coding	9
4. Application Conditions and Measurement Conditions	9
5. Technical Requirements	10
6. Test Method	16
7. Inspection Rules	22
8. Available Product Information, Package, Transportation and Storage	31

Foreword

This national standard is drafted in line with the regulations as specified in GB/T 1.1 - 2009.

This national standard is to replace the GB/T 14471 - 1993: *General Specification for Headphones*.

Primary changes of this national standard compared with that in GB/T 14471 - 1993: *General Specification for Headphones* are as shown in the following:

- With respect to the scope in Chapter 1, that “This national standard specifies the technical requirements and other requirements on measurement methods, environment test, test methods, regulations of acceptance, marking, packaging, transport, storage, etc. In respect of all kinds of hi-fi headphones and popular headphones used for domestic reproducing systems. And this national 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 national standard during application” is changed into that “This national 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 national standard is applicable to headphones used on and inside of human ears and headphone - microphone set (headphone - telephone transmitter). In addition, this national 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 into 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 with respect to the 3.5mm plug for double-sound channel headphone - microphone set, the 2.5mm plug for double-sound channel headphone and the 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 is respectively divided into “Chapter 5 Technical Requirements” and “Chapter 6 Test Methods” in this national standard, resulting in modification in serial number, specifically as follows:

— The technical requirements and test methods in respect of boundary dimension, appearance and mechanical quality contained in Article 4.3 in the original standard is respectively divided into “Article 5.1 Boundary Dimension, Appearance and Mechanical Quality” and “Article 6.1 Boundary Dimension, Appearance and Mechanical Quality” in this national standard;

— The technical requirements and test methods in respect of operation test of pure sound in Article 4.5 contained in the original standard is respectively divided into “Article 5.3 Sound Inspection” and “Article 6.2 Sound Inspection” in this national standard;

— The technical requirements and test methods in respect of each index about electronic sound in Article 4.6 contained in the original standard is respectively divided into “Article 5.4 Electronic Sound Parameters” and “Article 6.3 Electronic Sound Parameters” in this national standard; besides, it is newly added such items as impedance/ frequency characteristic, rated source impedance, rated source electromotive force, limit value of input voltage, characteristics of A- weighted, as well as the indexes about characteristic voltage and protective voltage of simulated programme signal for response compensation and modification of free field;

— In accordance with the contents in Article 6.9 and 6.10 in GB/T 12060.7 - 2013, it is newly added such indexes as external electric field and / or external magnetic field and protective device in “Article 6.4 Other Parameters” in this national standard;

— The “Article 4.6.5 Characteristic sound pressure level (sensitivity)” in the original standard is changed into the “Article 5.4.9 Sound pressure level” in this national 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 national standard.

— The “Chapter 6 Marking, Packaging, Transport and Storage” in the original standard is

changed into the “Chapter 8 Production Information, Packaging, Transport and Storage” in this national standard; in addition, that “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, while that on the marking of polarity shall be specified in GB/T 12060.2 - 2011” is newly added; moreover, based on the contents related with “Chapter 7 Characteristic Classification” in GB/T 12060.7 - 2013, requirements on product manuals are added.

Please pay attention to that some information in the document might involve in patents. And the issuance institution of the document shall not bear any liability to identify the patents there from.

This national standard was proposed by Ministry of Industry and Information Technology of the People's Republic of China.

This national standard is under the jurisdiction of Technical Committee for Standardization of Audio, Video and Multimedia Systems and Equipment (SAC/ TC 242).

Main drafting committees of this national standard include: Nanjing University, Zhongming (Dongguan) Electronic Co., Ltd. of Fujikon Industrial Holdings Ltd., and GoerTek Inc.

Main drafters of this national standard include: Shen Yong, Ju Guoxia and Jiang Chao.

Previous versions replaced by this national standard:

- GB/T 14471-1993

General Specification for Headphones

1. Scope

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 used on and inside of human ears and headphone - microphone set (headphone - telephone transmitter). In addition, this national 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. However, this national standard is not applicable to wireless headphones or noise canceling headphones.

2. Normative references

The articles contained in the following documents have become 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)



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