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

GB/T 12060.7-2013

Replacing GB/T 6832-1986

**Sound system equipment -- Part 7: Methods of measurement on
headphones and earphones**

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Foreword

GB/T 12060 "Sound system equipment" is divided into several parts.

- Part 1. General;
- Part 2. General method of calculation and interpretation of the term;
- Part 3. audio amplifier measurement methods;
- Part 4. Methods of measurement microphones;
- Part 5. Methods for measuring performance main speaker;
- Part 6. Auxiliary passive components;

- Part 7. Headphones and earphones measurement methods;
- Part 8. AGC device;
- Part 9. Artificial reverberation, time delay and frequency shift measurement means;
- Part 10. Peak program level meters;
- Part 11. Sound system equipment connectors for the interconnection of the application;
- Part 12. Radio and with similar sound system connected applications;
- Part 13. speaker listening tests;
- Part 14. Circular and oval speaker, shape and installation dimensions;
- Part 16. the speech transmission index (STI) objective assessment of the level of speech intelligibility;
- Part 17. Standard volume tables;
- Part 18. Peak program level meters - Digital audio peak level meter.

This section GB/T 12060 Part 7.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 6832-1986 "headphone measurement method", compared with the GB/T 6832-1986 The main changes are as follows.

--- Increased Chapter 1, "" and Chapter 2, "Normative references", Chapter 4, "General Provisions";

--- With Chapter 3, "Terms and definitions" instead of GB/T 6832-1986 "terminological interpretation";

--- Remove the GB/T 6832-1986 Chapter 3, "The main measuring instruments and requirements";

--- Increased Chapter 5, "govern the terms and conditions of measurement", 6.1 "Power", 6.2.3 "Nominal source impedance," 6.3.1 "rated source emf"

6.3.2 "limits the input voltage";

--- Remove the GB/T 4.4 "maximum noise voltage" of 6832-1986, 4.5 "maximum sinusoidal voltage" 4.6 "maximum noise power"

4.7 "pure tone detection listen";

--- 6.3.4 adds "analog program signal characteristic voltage" 6.3.5 "In A-weighted free-field response characteristics and simulation compensation correction section"

Head voltage signal characteristics, "6.3.6" protection ", 6.4" input power ", 6.5" sound pressure (level), "6.6.4" diffuse field frequency response comparison

Should ", 6.6.5" free-field and diffuse-field frequency response of the ear canal SPL "6.7.4" difference frequency distortion ", 6.8" rated climate conditions "

6.14 "physical characteristics, wires and connectors," Chapter 7, "properties category";

--- Remove the GB/T 6832-1986 4.10 "characteristic sound pressure level (sensitivity)";

--- Remove the GB/T 6832-1986 Appendix A, Appendix B, Appendix C, Appendix D;

--- Added Appendix A "headphones and earphones measurement pinna simulator," Appendix B "for the use of the microphone in the ear canal Regulation

Fan and conditions ", Appendix C" Rules for the Implementation of the free-field comparison condition, "Appendix D" Rules "relatively diffuse field conditions attached

Catalog E "Rules for the Implementation of subjective conditions and compare the ear canal SPL conditions";

--- Added "References."

This section uses redrafted law revision using IEC 60268-7.2010 "Sound system equipment - Part 7. Headphones and earphones."

This part of IEC 60268-7.2010 compared to some adjustments in the structure of this section IEC 60268-7.2010, Chapter 4, Chapter 5 together

And to Chapter 4, "General Provisions", delete the IEC 60268-7.2010 in Chapter 6, "User Information." Therefore, this section from Chapter 5 start

Numbered IEC 60268-7.2010 Chapter number minus 2. For example, IEC 60268-7.2010 7.1 file in this section are numbered

5.1.

Technical differences exist compared to 2010, the terms of these differences has been involved through its outer margins. This portion of the IEC 60268-7

Vertical single-line position (l) were marked. Technical differences and their reasons are as follows.

--- In 3.7,3.8 and 3.9, according to ITU-TP.57 part, an increase of earbud headphones, ear-type headphones and ear concha

Dimensions of headsets, and gives detailed information and earphones coupled to the ear. Related topics added

More clearly defined.

This part of IEC 60268-7:2010 made the following editorial changes.

- Modify the IEC 60268-7:2010 number some errors;
- Modify the IEC 60268-7:2010 is missing in several content;
- Remove the IEC 60268-7:2010 in Chapter 6, "User Information."

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Audio, video and multimedia systems and equipment Standardization Technical Committee (SAC/TC242) centralized.

This part mainly drafted by. Nanjing University, Fuji Industrial Holdings Co. name (Dongguan) Electronics Co., Goertek shares

Limited copies.

1 Scope

GB/T 12060 provisions of this part of the headphones and measurement methods headphones.

This section applies to the human ear and the inner ear using headphones, headphones - microphone set (headset - microphone group), and headset

Headset - microphone set (headset - microphone group). This section also applies to the assembly of a complete headphone system are necessary, for example, before

Amplifier, passive network and power supply.

This section does not relate to.

- Security, which should refer to GB 8898-2011 or other suitable criteria;
- Headset - microphone microphone set of features, which should refer to GB/T 12060.4;
- Hearing aids, headsets and other equipment, which should refer to GB/T 25102.100;
- Audiometric headphones used;
- Active ear headphones and assembly systems (although some provisions may apply).

2 Normative references