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

GB/T 33665-2023

Replacing GB/T 33665-2017

**Technical requirements and detecting method of audio and
video for digital publication**

数字出版物声频视频技术要求及检测方法

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document replaces GB/T 33665-2017 "Technical Requirements and Testing Methods for Digital Publications of Audiovisual Programs": With GB/T 33665- Compared with:2017, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Deleted the two definitions of "interlaced scanning" and "progressive scanning" (see 3:4 and 3:5 of the:2017 version);
- Changed the definition of "channel" (see 3:5, 3:7 of the:2017 version);
- Changed the definition of "surround sound" (see 3:6,:2017 version 3:8);
- Added "Audio Coding Format Requirements" (see Table 1 and Table 2);
- Added "Basic technical requirements for three-dimensional sound" (see Table 1);
- Added "video encoding format requirements" (see Table 3, Table 4, Table 5);

- Added the "Basic Technical Requirements for Ultra-High Definition Video" and proposed relevant parameter values for ultra-high-definition quality 4K and 8K images: (see 4:2:1);
- Changed the name of the detection equipment "Image Analyzer" (see 6:2, Figure 2, 2017 version of 6:2, Figure 1);
- Changed the name of the testing equipment "digital recorder" (see 6:2, Figure 1, Figure 2, 2017 version of 6:2, Figure 1, Figure 2);
- Changed the name of the testing equipment "audio analyzer" (see 6:2, Figure 1, 2017 version of 6:2, Figure 2);
- Added "memory card, mobile hard disk" as storage media (see Figure 1 and Figure 2):

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The previous versions of this document and the documents it replaces are as follows:

- First published as GB/T 33665-2017 in:2017;
- This is the first revision:

Audio and video technical requirements for digital publications and detection methods

1 Scope

This document specifies the basic technical requirements and media requirements for digital publication audio and video, and describes detection methods:

This document is suitable for the production and detection of audio and video of digital publications:

2 Normative reference documents

GB/T 31493-2015

GB/T 33663-2017

IEC 30192

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 sampling frequency
sampling frequency The frequency or period at which the analog source signal is sampled:

[Source: GB/T 17191:3-1997,6:4] 3:2 pixel pixel; pictureelement; pel In a display image, the smallest two-dimensional element that can be independently assigned attributes (such as color and intensity):

[Source: GB/T 5271:13-2008,13:08:03] 3:3 quantification Grade the sample values:

[Source: GB/T 3947-1996,14:31] 3:4 sampling The discrete values of a continuous variable obtained at equal or arbitrary time intervals: