

ICS 33.160.10

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

GB/T 44021.3-2024

**Audio, video and related equipment - Determination of power
consumption - Part 3: Television sets**

(English Translation)

Issued on: April 25, 2024

Implemented on: November 1, 2024

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document is part 3 of GB/T 44021 "Measurement of power consumption of audio, video and related equipment": GB/T 44021 has been published in Lower part:

- Part 1: General;
- Part 2: Test signals and media;
- Part 3: Television sets;
- Part 4: Video recording equipment;
- Part 5: Set-top box (STB);
- Part 6: Audio equipment:

This document is equivalent to IEC 62087-3:2023 "Measurement of power consumption of audio, video and related equipment - Part 3: Television sets":

Introduction

As important consumer products, audio and video products are widely used in consumers' homes: The power consumption of audio and video and related equipment has become a major concern for consumers:

The development of this document provides a practical evaluation method for the power consumption evaluation of audio, video and related equipment, which will help strengthen the consumer product field:

It has played a positive role in building the domain standard system and promoting the healthy development of the industry:

GB/T 44021 "Measurement of power consumption of audio, video and related equipment" is planned to consist of 6 parts:

- Part 1: General: The purpose is to specify general requirements for power consumption measurements of audio, video and related equipment:

--- Part 2: Test signals and media: The purpose is to give the test signals for audio, video and related equipment such as televisions and computer monitors:

Signals and media used when measuring power consumption:

--- Part 3: Television sets: The purpose is to specify the power consumption measurement and related characteristics of television sets:

--- Part 4: Video recording equipment: The purpose is to describe the power consumption measurement method of video recording equipment with removable media:

Various operating modes related to power consumption measurement:

--- Part 5: Set-top Box (STB): The purpose is to describe the power consumption measurement method of the set-top box and give various operation modes:

--- Part 6: Audio equipment: The purpose is to describe the power consumption measurement method of audio equipment:

Power consumption measurement of audio, video and related equipment Part 3: Televisions

1 Scope

This document specifies the power consumption measurements and related characteristics of television sets: Television sets include but are not limited to those using LCD, OLED or projection technology:

technology television:

This document defines in detail the operating modes and functions applicable to television sets:

This document is limited to TVs connected to an external power source: This document does not cover TVs that contain a non-removable main battery:

Any number of auxiliary batteries included:

The measurement conditions in this document represent normal usage of the device and may differ from usage under specific conditions, such as those specified in safety standards:

The usage is different under the specified conditions:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version

(including all amendments) applies to this document:

GB/T 44021.1-2024 Measurement of power consumption of audio, video and related equipment Part 1: General (IEC 62087-1:2015, IDT) GB/T 44021.2-2024 Audio, video and related equipment power consumption measurement Part 2: Test signals and media (IEC 62087-2:

2023,MOD)

Note: There is no technical difference between the referenced content of GB/T 44021.2-2024 and the referenced content of IEC 62087-2:2023:

standby power

Note: GB/T 35758-2017 Measurement method for standby power of household appliances (IEC 62301:2011, IDT)

3 Terms, definitions and abbreviations

3.1

Terms and Definitions the terms and definitions defined in GB/T 44021.1-2024 and GB/T 44021.2-2024 and the following apply to this document:

3.1.1

television set; TV

A device that receives and displays television broadcast, terrestrial, cable, satellite, analog, digital signals, broadband network transmission, or one or more similar services:

equipment for the service:

Note: The TV may contain additional features that are not the main functions:

3.1.2

Initial menu forcedmenu After the TV is set up for the first time or after factory settings, the user is required to select a configuration menu: