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

GB/T 44808.1-2024

**Ergonomics - Accessible design - Part 1: Spoken instructions
of consumer products**

人类工效学 无障碍设计 第1部分：消费品中的语音提示
(English Translation)

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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 1 of GB/T 44808 "Ergonomics and Accessibility Design". GB/T 44808 has been published as follows part.

- Part 1: Voice prompts in consumer products;
- Part 2: Color combination method considering changes in color vision with age;
- Part 3: Sound pressure levels of products and public address system voice announcements;
- Part 4: Estimation method of minimum recognizable character size for people of different ages.

This document is equivalent to ISO 24551:2019 "Ergonomics and accessible design of voice prompts in consumer products".

The following minimal editorial changes have been made to this document.

--- To coordinate with the existing standard, the name of the standard is changed to "Human ergonomics and barrier-free design Part 1: Voice in consumer products" hint".

Introduction

Consumer products defined in GB/T 32265.1-2015 include household appliances, information and communication products, gas heating equipment, toys, sanitary devices, healthcare products, and cameras. Some of these consumer products use voice prompts.

These voice prompts can help users of all ages use the product correctly and safely, including those with visual impairments or moderate cognitive impairments.

At the same time, voice prompts can also be helpful to users who are not familiar with the product.

The design should make it easy to hear and understand.

GB/T 44808 aims to take into account the different abilities of users and the diversity of usage scenarios, and to establish barrier-free design for each human-computer interaction factor.

Requirements, make the product and system suitable for the widest range of users in the target user group, and it is planned to consist of multiple parts.

--- Part 1: Voice prompts in consumer products. The purpose is to establish the ergonomic requirements for voice prompts in consumer products.

--- Part 2: Color combination method considering the changes in color vision with age. The purpose is to establish the creation of eye-catching color combinations method.

--- Part 3: Sound pressure levels for products and public address systems. The purpose is to establish the sound pressure level range for speech broadcasts.

Determine the method.

--- Part 4: Estimation method of minimum recognizable character size for different age groups. The purpose is to establish a method for estimating the minimum recognizable character size for different age groups.

Method for estimating the minimum recognizable character size of a group.

--- Part 5: Touch symbols and characters. The purpose is to establish barrier-free design requirements for touch symbols and characters.

--- Part 6: Indicator lights in consumer products. The purpose is to establish barrier-free design requirements for indicator lights in consumer products.

--- Part 7: Controllers in consumer products. The purpose is to establish accessible design

principles for consumer product controllers.

--- Part 8: Operability. The purpose is to establish barrier-free design requirements for the operability of consumer products.

Ergonomic barrier-free design Part 1: Voice prompts in consumer products

1 Scope

This document specifies the ergonomic requirements and recommendations for voice prompts in consumer products. Voice prompts in consumer products can be used to guide users in operating the product.

and/or provide users with feedback on product status, regardless of whether the user has a visual impairment.

Provides support for users with dyslexia and/or cognitive impairments.

The requirements and recommendations given in this document apply to all languages and to all forms of speech prompts, whether recorded or not.

It is speech synthesized.

The requirements and recommendations given in this document are generally applicable to ordinary consumer products that are used independently and whose functions may hinder the user's convenience.

This document does not apply to machines and equipment used for specialized work.

This document does not apply to products where the content and/or presentation of instructions are specified in other standards (e.g. medical devices, fire alarms, nor do the recommendations or requirements apply to interactive voice response (IVR) systems or digital assistants on personal computers or similar devices.

voice prompts.

This document does not specify voices for text-to-speech systems or narrative explanations intended to replace printed instructions and be used independently of the product.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

consumer product

Products acquired and used for personal, rather than professional, use.

[Source. GB/T 32265.1-2015, 3.2] 3.2 Voice prompts spoken instructions Verbal prompts issued by the product to convey information to help users use the product correctly or understand the product status.

warning message

Messages sent at specific moments when users operate the product to remind users what they should or should not do, or to require users to Prompt information related to product operation issues (may include operating instructions).

NOTE: Warning messages have a function similar to the warning signals specified in ISO 24500.

4 Application Description

This document provides requirements and recommendations for voice prompts in consumer products. Although the requirements in this document can be applied to any consumer product, the design