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

GB/T 44936.1-2024

**Graphical symbols for communication support of the elderly -
Part 1: Design principles**

老年人交流辅助用图形符号 第1部分：表示规则

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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 44936 Graphical symbols for communication aids for the elderly. GB/T 44936 has been published as follows part.

1. Representation rules. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Technical Committee for Standardization of Graphic Symbols (SAC/TC59). This document was

drafted by: China National Institute of Standardization, Guangdong Midea Refrigeration Equipment Co., Ltd., Ministry of Culture and Tourism of the People's Republic of China, Central Academy of Fine Arts, Xiamen Kunjin Electronic Technology Co., Ltd., Beijing Xiaohu Intelligent Technology Co., Ltd., China Earthquake Disaster Prevention Center, Lijiang Municipal Market Supervision Administration, Liaoning Provincial Institute of Standardization. The main drafters of this document are. Chen Yongquan, Bai Dianyi, Wang Songtao, Wang Liming, Lin Cunzhen, Huang Shufu, Gong Fengqi, Li Yishi, Zou Chuanyu, Li Jingjing, Yang Runfen, Gao Kai, and Liu Xiaoshuo.

For older people who have difficulty or impairment in using language communication (including text and conversation), in order to become more independent and better participate in society In life, we need to express our ideas and requirements correctly in some way. Graphic symbols as a means of communication can Graphic symbols specially designed for the communication needs of the elderly can improve their ability to express themselves and assist them in The graphic symbols used to assist the elderly in communicating can also be used by other groups of people who do not speak the same language or are not convenient to use language. Auxiliary means of communication when expressing. GB/T 44936 Graphical symbols for communication assistance for the elderly is a standard for the expression rules and specific graphic symbols of graphic symbols for communication assistance for the elderly. From the use of numbers to graphic symbols, systematic regulations are made on graphic symbols used to assist the elderly in communication, which plays a role in improving the quality of life of the elderly. Important role. GB/T 44936 is planned to consist of 3 parts.

- 1.Representation rules. The purpose is to standardize the expression of graphic symbols used to assist communication for the elderly.
- 2.Graphic symbols. The purpose is to define the design of graphic symbols for each elderly communication aid.
- 3.Usage. The purpose is to standardize, guide and promote the application of graphic symbols for communication assistance for the elderly. This document is part 1 of GB/T 44936, which specifies the design procedures, design templates and design principles of graphic symbols for communication aids for the elderly. It laid the foundation for the preparation of the other two documents. Graphic symbols for communication aids for the elderly Part

1 Scope

GB/T 44936.1-2024 sets the design principles for graphical symbols used to support communication with older people. The need is specific: symbols are the fallback when speech, hearing, literacy or memory fail, and symbol sets designed for general wayfinding are often unreadable to the people who most need them, because they rely on fine detail, low contrast, abstract metaphor or cultural references that do not transfer. This part

establishes the rules such symbols must follow, the graphical construction, the simplification and the level of detail, the line weight, contrast and colour requirements that suit ageing vision, the size and viewing distance relationship, the conventions for representing actions, objects, people and negation, the consistency required across a symbol set, and the testing of comprehension with older users before a symbol is adopted. It takes effect on 1 March 2025.

This document specifies the design procedure of graphic symbols for communication aids for the elderly, and provides the design templates of graphic symbols and the use of the templates Requirements, specifying the design principles and representation rules of graphic symbols, etc. This document is applicable to the design and drawing of graphic symbols for communication assistance for the elderly.

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 15565 Terminology of Graphic Symbols

3 Terms and definitions

The terms and definitions defined in GB/T 15565 apply to this document.

4 General

4.1 Graphic symbols for communication assistance for the elderly (hereinafter referred to as "graphic symbols") are used to represent the elderly when they have difficulty in language expression or communication. A graphic symbol that replaces language or text and is only suitable for use at a reading distance and not for long-distance recognition.

4.2 The meaning of graphic symbols should be concise, clear and unambiguous, and consistent with the meaning of graphic symbols specified in the current standards.

4.3 The comprehension test of newly designed graphic symbols should comply with the requirements of GB/T 16900.2, and the object relevance test should comply with The perceptual test should comply with the requirements of GB/T 16900.4. The perceptual test should comply with the requirements of GB/T 16903.3.

5 Design Program

The design of graphic symbols should comply with the following procedures.

- a) Screen the design requirements of graphic symbols based on typical scenarios and communication needs in the daily lives of the elderly, and clarify what the graphic symbols are to represent The object of communication and its meaning;
- b) Search for public information graphic symbols and other relevant national standards to see if there are graphic symbols with the same meaning as the graphic symbol to be designed. Number or symbol element;
- c) Design new graphic symbols in accordance with the design templates and design principles specified in this document;
- d) Conduct comprehension tests, object relevance tests, or perceptual tests on newly designed graphic symbols, and improve the graphic symbols based on the test results. Shape symbol;
- e) Classify, number and name the designed graphic symbols. The classification, numbering and naming methods of graphic symbols should refer to Appendix A.