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

GB/T 47003-2025

**Technical specification for targeted broadcasting and warning
systems for road traffic**

道路交通定向广播警示系统技术规范

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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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Public Security of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Road Traffic Management (SAC/TC576). This document was drafted by: Road Traffic Safety Research Center of the Ministry of Public Security, Suzhou Municipal Public Security Bureau, and Wuxi Huatong Intelligent Transportation Technology Development Co., Ltd. The company, Suzhou Qingting Acoustics Technology Co., Ltd., and Zhejiang University. The main drafters of this document are: Cai Gang, Sun Zhenliang, Huang Shubing, Zhang Sen, Shi Yilong, Zhu Junfei, Zhao Beichen, Liu Fang, Kuang Zheng, and Xue Can. Road traffic directional broadcast warning system Technical Specifications

1 Scope

GB/T 47003-2025 is the Chinese national standard covering warning a specific driver rather than everyone - the directional audio or radio message aimed at the vehicles approaching one hazard, one queue or one closed lane, with the triggering, the coverage and the requirement not to warn the wrong carriageway. First edition, the fourth of the road traffic standards issued together. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Ministry of Public Security. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification, models and components, technical requirements, inspection rules, installation and marking of road traffic directional broadcast warning systems. Packaging, transportation and storage, and testing methods are described. This document applies to the design, manufacture, inspection, and installation of road traffic directional broadcast warning systems.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.1 Environmental testing of electrical and electronic products - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Targeted broadcasting Sound travels along a certain path according to a set angle and direction.

4 Classification, Models and Composition

4.1 Classification Road traffic directional broadcast warning systems (hereinafter referred to as "the system") are classified according to application scenarios as follows:

---Category A. Used in highway scenarios to broadcast warning messages to drivers and passengers of motor vehicles on the road;

---Category B. Used in ordinary highway and urban road scenarios to broadcast warnings to drivers and passengers of motor vehicles and non-motor vehicles on the road. voice;

---Category C. Used in pedestrian crossing scenarios to broadcast warning messages to pedestrians entering or about to enter the pedestrian crossing. Model

4.2 The system model consists of the first letters of the Chinese pinyin for "directional broadcasting", the type, and the extension number, and should conform to the specifications in Figure 1.