

ICS 03.220.20
CCS R 80

GA

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

GA/T 993-2021

**Specifications for the setting of road traffic information display
device**

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Ministry of Public Security

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 General requirements
5 Setup requirements
6 Installation requirements
7 Construction, acceptance and operation and maintenance requirements
Appendix A (informative) Diagram of installation method of display equipment
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 of Standardization Documents" Drafting.

This document replaces GA/T 993-2012 "Specifications for the Installation of Road Traffic Information Display Equipment", and compared with GA/T 993-2012, except for in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Changed the "scope" (see Chapter 1, Chapter 1 of the 2012 edition);
- b) Added the term reference for "highway", "highway technical grade" and "urban road" (see 3.1, 3.2, 3.3);
- c) The term "fixed road traffic information display equipment" has been added (see 3.5);
- d) The term "mobile road traffic information display device" has been added (see 3.6);
- e) Changed the "General Requirements" in the "Setting Requirements" (see Chapter 4, 4.1 of the 2012 edition);
- f) Deleted the requirement of "fixed traffic information display device" in the "setting requirements" (see 4.2 of the 2012 edition);
- g) The requirement of "Highway" in "Setting Requirements" has been added (see 5.1);
- h) The requirement of "ordinary road" in the "setting requirements" has been added (see 5.2);

- i) The requirement of "Urban Expressway" in "Setting Requirements" has been added (see 5.3);
- j) The requirement of "other roads in the city" in the "setting requirements" has been added (see 5.4);
- k) The requirements of "Special Application Scenarios" in "Setting Requirements" have been added (see 5.5);
- l) The requirements of "Mobile Display Device" in "Setting Requirements" are changed (see 5.6, 4.3 in 2012 edition);
- m) Added "Installation Requirements" (see Chapter 6);
- n) Added "Requirements for Construction, Acceptance and Operation and Maintenance" (see Chapter 7);
- o) The requirement of "display information" has been deleted (see Chapter 5 of the 2012 edition).

1 Scope

This document specifies the general requirements, installation, and construction, acceptance and operation and maintenance requirements of road traffic information display equipment.

This document is applicable to the design, construction and acceptance of road traffic information display equipment.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 18226 Technical Conditions for Anticorrosion of Steel Components in Highway Traffic Engineering GB 50010 Code for Design of Concrete Structures GB 51038-2015 Specification for the setting of urban road traffic signs and markings GA/T 651 General procedures and requirements for the construction of public security traffic command system engineering GA/T 652 General Requirements for the Construction of Public Security Traffic Management Outfield Equipment Infrastructure GA/T 1043 Operation and maintenance specifications for road traffic technology monitoring equipment GA/T 1044.1-2012 Road traffic accident site safety protection code JTGD70/2-2014 Highway Tunnel Design Specification Volume 2 Traffic Engineering and Auxiliary Facilities

3 Terms and definitions

The following terms and definitions apply to this document.

Highway

A road that connects cities, villages, and industrial and mining bases, and is mainly used for cars and has certain technical conditions and facilities.

[Source. JTJ002-1987, 1.0.1] 3.2 Highway technical grade technicalgradeofhighway
Highways are divided into five levels. expressway, first-class highway, second-class highway, third-class highway, and fourth-class highway according to their technical levels. Among them, high-speed Roads other than roads are called ordinary roads.

[Source. GB/T 917-2017, 3.2] 3.3 Urbanroads Urban roads should be divided into expressways, main roads, and secondary roads according to their status in the road network, traffic functions, and service functions along the line.

There are four levels of roads and branch roads.

[Source. GB 51286-2018, 3.1.1] 3.4 Road traffic information display device Equipment installed or placed on the road to display road traffic information such as text, graphics, pictures, and video images.