

ICS 03.220.20
CCS R 80

GA

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

GA/T 742-2007

Replacing GA/T 742-2007

Portable LED information screen for road traffic

车载式道路交通信息显示屏

(English Translation)

Issued on: June 7, 2016

Implemented on: June 7, 2016

Issued by: Ministry of Public Security

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA/T 742-2007 "vehicle road traffic information display". Compared with GA/T 742-2007, except for editing the main technical changes are as follows.

- modified the standard name for the "mobile LED road traffic information display" (see standard name, 2007 edition of the standard name);
- Removed the terms and definitions of "vehicle road traffic information display", "out of control point", "out of control rate", and added "mobile LED road traffic information display", "out of control pixels" terms and definitions, modified the "pixel", "pixel spacing", "display Module" (see Chapter 3, Chapter 3 of the 2007 edition);
- modified the classification (see 4.2, 2007 version 4.2);
- modified the naming (see 4.3, 4.3 of 4.3);
- the general requirements were deleted (see 5.1 of the 2007 edition);
- modified the appearance (see 5.2, 5.2 of 5.2);
- modified brightness (see 5.4.1 in 2007, 5.4.1);
- Removed out of control (see 5.4.3 of 2007);
- modified display function (see 5.3.3, 5.3.3);
- modified control functions (see 5.3, 5.3, 5.3.2, 5.3.5)
- delete the information release function (see the 2007 edition of 5.3.4);
- Increased electrical performance of portable mobile information screens (see 5.6.1);
- modified the electrical performance of the vehicle-mounted mobile information screen (see 5.6.2.7, 5.8, 5.9 in 2007) - increased electrical performance of trailer-type mobile information screens (see 5.6.3);
- modified the test method (see Chapter 6, Chapter 6 of the 2007 edition);

--- Added installation requirements (see Chapter 7).

This standard by the Ministry of Public Security Road Traffic Management Standardization Technical Committee proposed and centralized.

This standard is responsible for the drafting unit. the Ministry of Public Security Traffic Management Science Research Institute, the national road traffic safety product quality supervision and inspection center.

This standard participates in the drafting unit. Guotong Road Traffic Management Engineering Technology Research Center Co., Ltd., Wuxi Huijie Technology Co., Ltd., Star Holdings Group Limited.

1 Scope

This standard specifies the requirements, test methods, installation requirements, inspection rules and signs of mobile LED road traffic information display, Packaging, transportation and storage requirements.

This standard is applicable to the design, manufacture, inspection and installation of mobile LED road traffic information display products.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 2423.1 Environmental testing for electric and electronic products - Part 2. Test methods - Test A. Low temperature GB/T 2423.2 Environmental testing for electric and electronic products - Part 2. Test methods - Test B. High temperature GB/T 2423.3 Environmental testing for electric and electronic products - Part 2. Test methods - Test Cab. constant damp heat test GB/T 2423.10 Environmental testing for electric and electronic products - Part 2. Test methods - Test Fc. Vibration (sinusoidal) GB/T 2423.11 Environmental testing for electric and electronic products - Part 2. Test methods - Test Fd. General requirements for wideband random vibration GB/T 2423.17 Environmental testing for electric and electronic products - Part 2. Test methods Test Ka. Salt mist GB 4208-2008 enclosure protection class (IP code) GB/T 8417 light signal color

3 Terms and definitions

The following terms and definitions apply to this document.

A movable LED display device for displaying road traffic information.

Pixel pixel

A basic display unit consisting of a single or multiple LEDs that controls its glow and off states.

[GB/T 23828-2009, Definitions 3.1] 3.3 Pixel spacing dotpitch the center distance between adjacent pixels.

[GB/T 23828-2009, definition 3.2] 3.4 Display module A unit consisting of a pixel array and a driving circuit.

[SJ/T 11141-2012, definition 3.8]