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GA

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

GA/T 508-2014

Replacing GA/T 508-2004

Countdown display unit for traffic lights

道路交通信号倒计时显示器

(English Translation)

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Foreword

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

Instead of the standard GA/T 508-2004 "Road traffic signal countdown displays." Compared with GA/T 508-2004, in addition to editing Modifications outside the main technical changes are as follows.

- Modify the definition of the countdown display (see 31, 2004, version 3.1.);
- Remove the countdown digital display, analog display countdown, communication style, learning style countdown, learning status, Yellow flash control, the definition phase of the signal (see the 2004 edition of 3.2,3.3,3.4,3.5,3.6,3.7,3.8);
- Increased throughout the display and display a given process definition (see 3.2, 3.3);
- Remove the classification and nomenclature (see 2004 edition 4);
- Increase the general requirements, including the type, appearance, identity, size requirements (see 4.1, 2004 edition of 5.1.1,5.2, 5.1.4);
- Remove the simulated countdown display (see the 2004 version of 5.1.2.2);
- Remove the material (see the 2004 version 5.1.3);
- Modify the electrical components (see 4.2,2004 version 5.3);

- Modify the display requirements (see 4.3, 2004 version 5.4.1);
- Increased control requirements, which modified the communication countdown display, a follow-up mode countdown display adds triggering party Style countdown display (see 44, 441, 442, 443, 2004 edition of 5.4.2, 5.4.3...);
- Remove the luminous intensity performance (see the 2004 version 5.5.1);
- Modify the brightness performance (see 45, 2004 edition of 5.5.2.);
- Increase the turn-off voltage (see 4.7.5);
- Modify the appearance, structure and identity checks, dimensional checks (see 51, 2004 version 6.1.);
- Deleted text, graphics and logos test (see 2004 edition 6.2);
- Modify the display test requirements (see 53, 2004 version 6.4.1.);
- Increasing the control test requirements, which modify the communication style countdown display test, follow-up mode countdown display test, by Added trigger countdown display test (see 54, 541, 542, 543, 2004 edition of 6.4.2, 6.4.3...);
- Modify the optical performance test (see 55, 2004 version 6.5.);
- Modify the color performance test (see 56, 2004 version 6.6.);
- Increase the turn-off voltage test (see 5.7.5);
- Modify the enclosure class test (see 59, 2004 version 6.7.5.);
- Modify the high-temperature test, low temperature test, temperature and humidity testing, salt spray test, vibration test, continuous stability test (see ... 510, 511, 512, 513, 514, 515, 2004 edition of 6.9.1, 6.9.2, 6.9.3, 6.9.4, 6.10.6.11);
- Remove the basic installation requirements (see the 2004 version of Chapter 8);
- Increase the setup requirements (see Chapter 6);
- Modify the inspection rules (see Chapter 7, Chapter 7 of the 2004 edition);
- Increase the transition period to implement the requirements of the standard (see Chapter 10);
- Revised Appendix A "communication style countdown display protocol" (see Appendix A, 2004 edition of Appendix A);
- Added Appendix B "countdown display settings" (see Appendix B).

This standard by the Ministry of Public Security Traffic Management Standardization Technical Committee.

1 Scope

This standard specifies the road traffic signal countdown displays requirements, test methods, setup requirements, inspection rules, marking, packaging, transportation the transition period and the implementation of standards and storage requirements.

This standard applies to road traffic signal countdown displays.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat GB/T 2423.3 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test GB/T 2423.10 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) GB/T 2423.17 Environmental testing for electric and electronic products Part 2. Test methods - Test Ka. Salt GB 4208 housing protection (IP Code) GB/T 8417 color light signals GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test GB/T 17626.5 electromagnetic compatibility test and measurement technology surge (impact) immunity test

3 Terms and Definitions

The following terms and definitions apply to this document.

Road traffic signal countdown displays countdowndisplayunitfortrafficlight Independent of road traffic lights, traffic signal synchronization means color display remaining time.

Full display wholeprocessdisplay Traffic lights green light or red light that is beginning to show the remaining time display when Qiliang.

The stroke display partprocessdisplay Before the end of the green or red traffic lights begin to show a specific time display of the remaining time.

4.1.1 Model

Road traffic signal countdown display (hereinafter referred to as the countdown display) models referred to by a countdown display, shows the median, the countdown