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

GA/T 1202-2022

Replacing GA/T 1202-2014

**General technical specifications for fill light device for traffic
technology monitoring imaging**

交通技术监控成像补光装置通用技术条件

(English Translation)

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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 replaces GA/T 1202-2014 "General Technical Conditions for Imaging Supplementary Light Devices for Traffic Technology Monitoring", and GA/T 1202-2014 in comparison, except for structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the terms and definitions of the traffic technology monitoring imaging supplementary light device (see 3.1, 3:1 of the:2014 edition);
- b) Delete the terms and definitions of peak illuminance (see 3.6 of the:2014 edition);
- c) Added the term and definition of call back time (see 3.4);
- d) Changed the terms and definitions of average illuminance (see 3.5, 3:4 of the:2014 edition);
- e) Added the terms and definitions of supplementary light area (see 3.7);
- f) Added classification (see 4.1);

- g) Changed the naming (see 4.2, 4:1:1 of the:2014 edition);
- h) Added composition (see 5.1);
- i) The optical properties have been changed (see 5.3, 4:3 of the:2014 edition);
- j) Changed the spectral characteristics of the light source (see 5.4, 4:4 of the:2014 edition);
- k) Changed the flicker feature (see 5.5, 4:5 of the:2014 edition);
- l) Changed the power consumption requirements (see 5.6, 4:6 of the:2014 edition);
- m) Changed the power supply adaptability requirements (see 5.7:1, 4:7:1 of the:2014 edition);
- n) Increased optical radiation safety requirements (see 5.9);
- o) Changed the climate environment adaptability requirements (see 5.10, 4:9 of the:2014 edition);
- p) Changed the optical performance test method (see 6.2, 5:3 of the:2014 edition);
- q) The test method for the spectral characteristics of the light source has been changed (see 6.3, 5:4 of the:2014 edition);
- r) Changed the flicker characteristic test method (see 6.4, 5:5 of the:2014 edition);
- s) Added optical radiation safety test methods (see 6.8);
- t) Changed the low temperature test method (see 6.9:3, 5:9:2 of the:2014 edition);
- u) Changed the inspection conditions (see 7.2:1, 7:2:1 of the:2014 edition);
- v) Changed the setting requirements (see 9.1, Chapter 6 of the:2014 edition);
- w) Added glare evaluation (see 9.2):

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the classification and naming, technical requirements, test methods, inspection rules, signs, and compliance of traffic technology monitoring imaging supplementary light devices:

Certification and packaging, setting requirements and glare evaluation:

This document is applicable to the design, production, inspection, installation and glare evaluation of traffic technology monitoring imaging supplementary light devices: embedded in transportation technology the supplementary light components in the monitoring equipment can be implemented by reference:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references for documents, 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 2423.1 Environmental testing for electrical 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 - Part 2: Test methods Test Cab: Constant damp heat test GB/T 2423.5 Environmental testing - Part 2: Test methods Test Ea and guidelines: Shock GB/T 2423.10 Environmental testing Part 2: Test method Test Fc: Vibration (sinusoidal) GB/T 2423.17 Environmental testing for electric and electronic products - Part 2: Test method Test Ka: Salt spray GB/T 4208 enclosure protection level (IP code) GB/T 5700 Lighting Measurement Methods GB/T 17626.2 Electromagnetic Compatibility Test and Measurement Technology Electrostatic Discharge Immunity Test GB/T 17626.4 Electromagnetic Compatibility Test and Measurement Technology Electrical Fast Transient Burst Immunity Test GB/T 17626.5 Electromagnetic Compatibility Test and Measurement Technology Surge (Shock) Immunity Test GB/T:20145 Photobiological Safety of Lamps and Lamp Systems GB/T 37958-2019 Optical radiation safety requirements for active lighting components of video surveillance systems CJJ45 Urban Road Lighting Design Standards JJG245 Light Meter Verification Regulations

3 Terms and Definitions

The following terms and definitions apply to this document:

The device is used for enhancing the illuminance of the imaging target when the traffic technology monitoring equipment collects the scene image:

reference axis

A straight line that is perpendicular to the horizontal projection surface of the light-emitting surface of the traffic technology monitoring imaging supplementary light device and passes through the geometric center of the light-emitting surface: