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

GB/T 10072-2025

Replacing GB/T 10072-2003

Specifications of electronic flash equipments for photograph

照相用电子闪光装置技术规范

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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 GB/T 10072-2003 "Technical requirements for electronic flash devices for photography". Compared with GB/T 10072-2003, In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed the technical requirements for "correlated color temperature" (see 5.10, 4.10 of the.2003 edition);
- Changed the technical requirements for "flash durability" (see 5.11, 4.11 of the.2003 edition);
- Deleted the relevant technical requirements and test methods for "flash leakage rate" (see 5.4.10 of the.2003 edition);
- Added technical requirements and corresponding test methods for "impact resistance" and "drop resistance" (see 5.14, 5.15, 6.4. 14, 6.4.15). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee for Standardization of Photographic Machinery (SAC/TC107). This document was drafted by: Hangzhou Photographic Machinery Research Institute Co., Ltd., Hangzhou Guozhao Testing Technology Co., Ltd., Dace Technology

(Guangzhou) Co., Ltd. Co., Ltd. and Fujian Bailing Film and Television Technology Co., Ltd. The main drafters of this document are Ren Sen, Gao Ting, Liu Yuezhan, Hu Xiaoying, Ge Shiqing, Cheng Yifan, Wang Jun, and Zhan Xiaohong. The previous versions of this document and the documents it replaces are as follows:

--- First published as GB/T 10072-1998 in.1998, first revised in.2003;

---This is the second revision. Technical specifications for electronic flash devices for photographic use

1 Scope

GB/T 10072-2025 is the Chinese national standard on specifications of electronic flash equipments for photograph, in the field of image technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2026. Classification: ICS 37.040.10, CCS N 46. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the technical requirements for electronic flash devices for photographic use, describes the corresponding test methods, and stipulates the inspection rules, marking, packaging, etc. Packaging, transportation and storage, etc. This document applies to the manufacture of external electronic flash devices that provide main light or fill light for camera photography. This document does not apply to high-power studio flash units.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 13987-2025 Determination of the guide number for electronic flash devices used in photography

JB/T 13702.1 Camera environmental testing Part

3 Terms and Definitions

The terms and definitions defined in GB/T 13987-2025 and the following apply to this document.

3.1 light output The integral of the luminous intensity of the flash device in the direction of the reflector axis over time.

Note. The unit of light output is candela second (cd·s).

3.2 Ready indication An indication signal that the flash unit is charged to the point where it can fire a flash.

3.3 Flash index guide number; GN NGN Related to the ISO sensitivity of the film or digital camera used, the camera's required sensitivity to obtain the proper exposure for the film or image sensor. The product of the lens aperture (F-number) and the distance from the flash light source to the subject.

Note. The flash guide number is a measure of the amount of light emitted by a flash, measured in meters (m). [Source: GB/T 13987-2025, 3.1]

3.4 ready number GN (3.3) measured when the preparatory indication (3.2) starts to be displayed.

5 Free drop test

JB/T 14302 Packaging, transportation, storage conditions and test methods for photographic machinery