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CCS N46



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

GB/T 43044-2023

Digital cameras - Specification guideline

数码照相机 规格指南

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is equivalent to ISO 18383.2015 "Photographic Digital Camera Specification Guide". This document has made the following minimal editorial changes.

---The standard name was changed to "Digital Camera Specification Guide". This document is proposed by China Machinery Industry Federation. This document is under the jurisdiction of the National Photographic Equipment Standardization Technical Committee (SAC/TC107). This document was drafted by: Hangzhou Photographic Mechanical Research Institute Co., Ltd., Hangzhou Guozhao Inspection Technology Co., Ltd., Xiamen Panasonic Electronic Information Co., Ltd., Sichuan New Vision Ultra HD Technology Co., Ltd., Guangdong Futubao Imaging Industry Co., Ltd., and China Jiliang University. The main drafters of this document. Wang Lin, Li Tongyue, Cheng Yifan, Xu Yuzhao, Shi Min, Song Xiaomin, Li Zhihua, Xu Sunan, and Hu Lihua. Digital Camera Specification Guide

1 Scope

GB/T 43044-2023 sets out how a digital camera's specifications should be defined, measured and stated. Camera specifications are the part of consumer electronics marketing where honest and misleading numbers are hardest for a buyer to tell apart: sensor size quoted in fractional-inch conventions that correspond to nothing physical, resolution counted before or after cropping, zoom that combines optical with digital, ISO sensitivity derived by different definitions, and battery life measured under conditions each manufacturer chooses. Each figure is defensible in isolation and the set is not comparable

across brands. This document describes a set of characteristics of a digital still camera together with their definitions, the test methods for determining them and the way they are to be represented, so that a published specification means the same thing whoever published it. It applies to digital cameras designed and produced for ordinary consumers, excluding those built to special specifications. Under ICS 37.040.10 and CCS N46, it is written for camera manufacturers and their marketing and technical documentation functions, for retailers and comparison services, and for the consumer protection bodies that examine advertised claims.

This document describes a set of characteristics of a digital camera (DSC), together with their definitions, test methods and representation. This document applies to Digital cameras designed and produced for ordinary consumers, excluding those designed to meet special specifications agreed between individual business or industrial users and manufacturers. Design and production of digital cameras. The representations specified in this document are intended for use as logos on camera bodies, packaging, at points of purchase, and in advertising materials. on, in electronic or printed instructions and other materials and in related software.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

ISO 516 camera shutter time general definition and mechanical shutter measurement
(Camerashutters-Timing-General)

GB/T 8338-2023 Measurement of camera shutter time (ISO 516.2019, IDT)

ISO 517 Photography aperture and related attribute design and measurement of
photographic lenses (Photography-Apertureand

ISO 2720 Photographic Exposure Meters (Photoelectric Type) for General Purposes in
Photography Production Specifications Guide [Photography-General]

ISO 12232 Photography Digital Camera Exposure Index, ISO Sensitivity Value, Standard
Output Sensitivity and Recommended Exposure Index Indeed

GB/T 20224-2006 Determination of digital camera exposure index, ISO sensitivity value,
standard output sensitivity and recommended exposure index (ISO 12233.2004,IDT)

ISO 12233 Photography Electronics Still Image Imaging Resolution and Spatial Frequency
Response (Photography-Electronicstil

GB/T 19953-2005 Measurement of digital camera resolution (ISO 12233.2000NEQ)

ISO 14524 Test method for photoelectric conversion functions (OECFs) of photographic digital cameras [Photography-Electronic

GB/T 19894-2005 Measurement method of optical-electrical conversion functions (OECFs) of digital cameras (ISO 14524.1999, IDT)

ISO 15739 Measurement of imaging noise in photographic electronic still images (Photography-Electronicstil-pictureima- ging-Noise measurements)

GB/T 34074-2017 Measurement of noise in digital cameras (ISO 15739.2013, IDT)

ISO 15781 Measurement of shooting lag, shutter lag, shooting speed and boot time of photographic digital cameras rate, and start-up time)