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

GB/T 15967-2024

Replacing GB/T 15967-2008

**Specifications for digital aerial photogrammetric mapping of
1:500 1:1000 1:2000 topographic maps**

1:500 1:1000 1:2000地形图数字航空摄影测量测图规范

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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 15967-2008 "1:5001:10001:2000 topographic map aerial photogrammetry digital mapping specification" Compared with GB/T 15967-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the mapping operation from "analytical aerial photogrammetry method" to "digital aerial photogrammetry method" The content and scope of application of the standard have been changed accordingly (see Chapter 1);
- b) Added digital surface model (DSM), digital elevation model (DEM), digital orthophoto (DOM), digital line map (DLG) etc: (see Chapter 4);
- c) The description of the specifications and requirements for the results has been changed (see 5:1, 3:1 of the:2008 edition);
- d) The accuracy of digital mapping of 1:500, 1:1000 and 1:2000 topographic maps using analytical aerial photogrammetry has been deleted: Requirements, online data collection requirements, etc: (see 3:2, 3:3 and Chapter 6 of the:2008 edition);
- e) Added the frame-based digital aerial photogrammetry method for 1:500, 1:1000, 1:2000 DSM, DEM, Operation contents and technical requirements of DOM and DLG production (see Chapters 8, 9, 10 and 11);
- f) Added requirements for the production of metadata, calendar books, technical

summaries, etc: (see Chapter 12);

g) The relevant contents of quality control have been modified (see Chapter 13, 8:1 of the:2008 edition);

h) The content related to the compilation and submission of results has been modified (see Chapter 14, 8:2 of the:2008 edition): 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 is proposed by the Ministry of Natural Resources of the People's Republic of China: This document is under the jurisdiction of the National Technical Committee for Geographic Information Standardization (SAC/TC230): This document was drafted by: Surveying and Mapping Standardization Institute of the Ministry of Natural Resources, the First Aerial Survey and Remote Sensing Institute of the Ministry of Natural Resources, and the Third Aerial Survey and Remote Sensing Institute of the Ministry of Natural Resources: Institute of Surveying and Remote Sensing, Beijing Institute of Surveying and Mapping, Interstellar Space (Tianjin) Technology Development Co., Ltd.; Liaocheng University, Zhejiang Hexin Geographic Information Technology Co., Ltd.; Technology Co., Ltd.; Shenzhen Municipal Design Institute Co., Ltd.; and Guangzhou Changdi Space Technology Information Co., Ltd: The main drafters of this document are: Zhang Jing, Wu Wei, Tian Chao, Wang Huanping, Zhang Yuyu, Zhang Shiqun, Zhang Haitao, Jiang Yifang, Wang Guofei, Fu Xiaoshan, Zhu Zhengrong, Xie Xiuping, Wang Yimin, Ouyang Quan: The previous versions of this document and the documents it replaces are as follows:

---First published in:1995 as GB 15967-1995;

---2008 was the first revision and published as GB/T 15967-2008;

---This is the second revision: 1:5001:10001:2000 topographic map Specification for digital aerial photogrammetry and mapping

1 Scope

GB/T 15967-2024 is the Chinese national standard on specifications for digital aerial photogrammetric mapping of 1:500 1:1000 1:2000 topographic maps, in the field of natural and applied sciences. 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 28 May 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2024. Classification: ICS 07.040, CCS A 77. 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 production of 1:500, 1:1000, 1:2000 digital surface models based on frame-type digital aerial photography data: Preparation, technical requirements, and relevant Responsible for document production, quality control, results compilation and submission, etc: This document is applicable to 1:500, 1:1000, 1:2000 DSM, DEM, DOM and DLG production operations: Cartographic production based on push-broom aerial photography is performed as a reference:

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 7931 1:5001:10001:2000 Field specification for aerial photogrammetry of topographic maps

GB/T 13923 Classification and codes of basic geographic information elements

GB/T 18316 Quality inspection and acceptance of digital surveying and mapping results
GB/T 20257:

1 National basic scale map diagram Part 1: 1:500 1:1000 1:2000 topographic map diagram
GB/T 20258:

1 Basic geographic information element data dictionary Part 1: 1:5001:10001:2000 scale

GB/T 23236 Specification for aerial triangulation of digital aerial photogrammetry

GB/T 24356 Quality inspection and acceptance of surveying and mapping results

GB/T 27919 Technical Specification for IMU/GPS Assisted Aerial Photography GB/T 27920:

1 Specification for digital aerial photography Part 1: Frame-type digital aerial photography

GB/T 39608 Metadata of basic geographic information digital products CH/T 1001 Rules for the preparation of surveying and mapping technical summaries CH/T 1004 Specification for Surveying and Mapping Technical Design CH/T 9008:

1 Basic geographic information digital results 1:5001:10001:2000 digital line map CH/T 9008:

2 Basic geographic information digital results 1:5001:10001:2000 digital elevation model
CH/T 9008:

3 Basic geographic information digital results 1:5001:10001:2000 digital orthophoto map
CH/T 9022 Basic geographic information digital products
1:5001:10001:20001:50001:10000 digital surface Model

3 Terms and definitions

There are no terms or definitions that require definition in this document:

4 Abbreviations

The following abbreviations apply to this document:

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