

ICS 07.040
CCS A 77



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

GB/T 45631-2025

**Requirements for flying management information of surveying
and mapping with unmanned aircraft system (UAS)**

无人机遥感测绘飞行管理信息要求

Issued on: April 25, 2025

Implemented on: August 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface... III 1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Flight management information content	1
5 Flight management information transmission requirements	2
5.1 Transmission method	2
5.2 Transport Protocol	2
5.3 Transmission frequency	2
5.4 Transmission Delay	3
5.5 Resuming downloads	3
References	4

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 is required.

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 on Geographic Information Standardization (SAC/TC 230).

This document was drafted by: China Surveying and Mapping (Beijing) Remote Sensing Technology Co., Ltd., Wuhan China Surveying and Mapping Remote Sensing Technology Co., Ltd., Sichuan Zhongce Tianxiang Remote Sensing Technology Co., Ltd., National Basic Geographic Information Center, Second Research Institute of the Civil Aviation Administration of China, Beijing Construction University of Architecture and Geoinformation, Chinese Academy of Surveying and Mapping (National Engineering Research Center for Surveying and Mapping).

The main drafters of this document are: Li Yingcheng, Xue Yanli, Li Xilin, Liu Fei, Zheng Anwu, Ren Yafeng, Yang Jie, Bi Kai, Zhao Junxia, Ren Yanxu, Zhang Jianping, Zou Xiang, Li Yin, Ma Li, Xiang Jie, Miao Qiang, Li Changke.

UAV remote sensing and mapping flight management information requirements

1 Scope

This document specifies the content and transmission requirements for UAV remote sensing mapping flight management information.

This document applies to the flight status supervision of UAV remote sensing systems.

2 Normative references

GB/T 41300

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 unmanned aircraft system; UAS

The unmanned aircraft shall be the main part, equipped with the relevant remote control station, the required command and control links and any other parts specified in the design.

A group of devices that can complete a specific task.

3.2 UAS remote sensing system

An unmanned aerial vehicle system equipped with remote sensing sensors and engaged in aerial remote sensing activities.

Note. The UAV remote sensing system referred to in this document has an empty mass less than or equal to 116 kg and a take-off weight less than or equal to 150 kg.

3.3 UAS flying data

The longitude, latitude, altitude, speed, direction and other relevant information of the UAV system flight.

4 Flight management information content

When using UAV remote sensing systems to perform UAV remote sensing mapping tasks, the UAV remote sensing system should be reported to the national air traffic management leadership organization for coordinated construction.

The integrated supervision service platform for manned aircraft transmits flight management information in real time.

Flight management information includes regulatory identification information and flight

status information, see Table 1 for details.

The time is Beijing time, the longitude and latitude are in WGS84 coordinate system, and the altitude is satellite-based altitude.

Table 1 Flight management information Classification information item description
Regulatory knowledge Other information Drone only Product Identification Code The
unique product identification code of the drone is in accordance with GB/T 41300