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

GB/T 45522-2025

**Specifications for registration of surveying and mapping with
unmanned aircraft system (UAS)**

无人机遥感测绘注册规范

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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.

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.

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Introduction

China's civil UAV remote sensing system is widely used in aerial photogrammetry, resource

and environmental monitoring, infrastructure inspection, disaster emergency response, law enforcement and other remote sensing. It has been widely used in mapping activities, and the amount of data obtained has increased exponentially year by year.

There are many, scattered equipment, diverse performance, complex technical parameters, and a lack of relevant technical parameters, affiliated units and other attribute information of UAV remote sensing systems.

The collection, integration and management of UAV remote sensing system resources make it difficult to achieve information sharing, rapid scheduling and reasonable allocation of UAV remote sensing system resources.

This document specifies the requirements for remote sensing systems of civil unmanned aerial vehicles (empty mass less than or equal to 116kg, takeoff weight less than or equal to 150kg).

Resource registration rules, remote sensing mapping mission registration rules and flight plan registration rules to support the construction of China's UAV remote sensing system resource library. The system is established to realize the information collection and dispatch of UAV remote sensing system resources; standardize the registration of missions and flight plans for UAV remote sensing activities;

This information lays the foundation for the flight management of China's civil UAV remote sensing system and has a positive impact on the implementation of the "Interim Regulations on the Flight Management of Unmanned Aerial Vehicles". Driving effect.

Registration Specifications for UAV Remote Sensing Mapping

1 Scope

This document specifies the requirements for remote sensing systems of civil unmanned aerial vehicles (empty mass less than or equal to 116kg, takeoff weight less than or equal to 150kg).

Contents and requirements of resource registration, remote sensing mapping mission registration and flight plan registration.

This document applies to the registration of civil drone remote sensing mapping.

2 Normative references

GB/T 41300

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

The unmanned aerial vehicle is 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

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 116kg and a take-off weight less than or equal to 150kg.

3.3 [Source. GB/T 41300-2022, 3.3]

A code that complies with specific coding rules and is used to uniquely identify the identity of a civil UAV product.

4.1 Registration Requirements

The unit that owns the UAV remote sensing system resources should register according to the relevant requirements of the national air traffic management leadership organization, and the registration content should be complete. The whole truth.

4.2 Registration Content

The registration content of UAV remote sensing system resources includes the unique product identification code of the UAV, flight platform, flight control system, telemetry and remote control system, The specific information and requirements for filling in shall be shown in Table 1.