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

GB/T 47049-2026

**Technical specification for ground monitoring systems for
forest and grassland fire prevention**

森林草原防火地面监控系统技术规范

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms, Definitions, and Abbreviations	1
4 System Composition	2
5.Functional Requirements	3
6 Performance Requirements	4
12 Appendix C (Normative) Test Method for Detector Field of View.....	13

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 involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the National Forestry and Grassland Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Forest and Grassland Fire Prevention (SAC/TC523). This document was drafted by: Chongqing Academy of Forestry Sciences, Chongqing Yingka Electronics Co., Ltd., and the National Forestry and Grassland Administration's Forest and Grassland Fire Prevention and Control Center. Disaster Prevention and Monitoring Center, Chongqing Technology and Business University, Beijing Xishan Experimental Forest Farm, Institute of Forestry Science and Technology Information, Chinese Academy of Forestry, Changchun Zhuoshida Technology Promotion Co., Ltd., Beijing Forestry University, Southwest Forestry University, Inner Mongolia Agricultural University, China Fire and Rescue Academy Southwest Survey and Planning Institute of the National Forestry and Grassland Administration, Northwest Survey and Planning Institute of the National Forestry and Grassland Administration, and Central and Southern Survey and Planning Institute of the National Forestry and Grassland Administration Planning Institute, East China Survey and Planning Institute of the National Forestry and Grassland Administration, Chongqing Forest and Grassland Fire Prevention, Early Warning and Monitoring Center, Kunming Forest Fire Prevention and Control Center Forestry and Grassland Information Center. The main drafters of this document are. Jiang Chaoyuan, Feng Xiaodong, Yang Qingyu, Cao Xiaoli, Lü Jiang, Jia Wei, Tang Can, Wu Run, Zhang Zhenrui, Zhao Xiaodi, and Qu Daming. Xu Fu, Wang Qiuhua, Shu Yang, Bai Ye, Li Wei, Ma Minjie, Liu Youlin, Zhang Chao, Kang Le, Lin Haiyan, Meng Xiangjiang, Li Lin, Li

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1 Scope

GB/T 47049-2026 is the Chinese national standard covering the ground layer of fire detection - the sensors, weather stations and patrol reporting that watch a forest or grassland from within, and the communications that get an alarm out of a place with no coverage. First edition, in force since 1 May 2026, with GB/T 47058-2026 on video monitoring. It was issued on 28 January 2026 and has been in force since 1 May 2026, as a first edition. The document is under the responsibility of the National Forestry and Grassland Administration. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document defines the terms and definitions in the technical specifications for forest and grassland fire prevention ground monitoring systems, and specifies the procedures for forest and grassland fire prevention ground monitoring. The system's composition, functional requirements, and performance requirements are described, along with the corresponding test methods. This document applies to the design, integration, and testing of ground-based monitoring systems for forest and grassland fire prevention.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.1-2008 Environmental testing of electrical and electronic products - Part

3 Terms, Definitions and Abbreviations

3.1 Terms and Definitions The following terms and definitions apply to this document.

3.1.1 A ground-based sensor network capable of detecting, identifying, alarming, and locating surface fires in forests and grasslands.

3.1.2 surface fire detector Sensing devices that use infrared, ultraviolet and visible light technologies to detect, identify and warn of surface fires in forests and grasslands.

Note. This includes self-organizing wireless network type and mobile wireless network type detectors, hereinafter collectively referred to as "detectors".

3.1.3 Northbound interface Communication interfaces for accessing operator networks or satellite networks.

3.1.4 Southbound interface Connect to the detector's communication interface.

3.1.5 Sensitivity The detector's ability to detect fire points.

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