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**Inspection robot centralized monitoring system technical
requirements**

巡检机器人集中监控系统技术要求

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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 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.

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Technical requirements for centralized monitoring system of inspection robots

1 Scope

This document specifies the architecture, functional requirements, performance requirements, safety and protection, test methods, Inspection rules, as well as marking, packaging, transportation and storage.

This document is applicable to the design of centralized monitoring systems for ground and ultra-low altitude inspection robots in industrial, agricultural, electric power, transportation, mining and other working conditions.

Design, development and application.

2 Normative references

GB/T 7260.503-2020

GB/T 20272-2019

GB/T 20273-2019

GB/T 21050-2019

GB/T 22239-2019

GB/T 28181-2022

GB/T 36911-2018

GB/T 37282-2019

GB/T 39590.1-2020

GB/T 39680-2020

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 system

Inspection robot centralized monitoring system Inspection robot centralized monitoring system Based on the application of computers, software, networks and communication technologies, one or more inspection robots can be centrally managed, monitored and controlled.

4.1 General

The inspection robot centralized monitoring system centrally manages and controls all connected inspection robots. The system has but is not limited to For data collection, data storage, data analysis, real-time monitoring, alarm notification and other functions, the system architecture requirements are as follows.

- a) The centralized monitoring system should have a protocol for unified access of data from multiple types of robots;
- b) The centralized monitoring system can be deployed and applied at multiple levels to meet the application needs of users at different levels;
- c) Critical equipment and links such as servers, switches and information transmission channels of the centralized monitoring system should be configured redundantly.