



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

GB/T 21741-2021

**General specifications for security system for residential areas
(English Translation)**

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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 of Standardization Documents" drafted:

This document replaces GB/T 21741-2008 "General Technical Requirements for Security Systems in Residential Quarters", and is consistent with GB/T 21741-2008 in addition to structural adjustments and editorial changes, the main technical changes are as follows:

--- Changed the scope of application of the standard (see Chapter 1, Chapter 1 of the:2008 edition);

--- Changed terms and definitions, deleted "residential area", "public area", "security relay box/relay room", "resident security control box", Added "Gated Residential Community", "Non-Gated Residential Community", "Security Prevention", "Security Prevention System", "Intrusion and Emergency Alarm" system", "video surveillance system", "entry and exit control system", "parking garage (yard) safety management system", "electronic inspection system", "building apartment pairing system" "Speaking System" and "Security Management Platform" (see Chapter 3, Chapter 3 of the:2008 edition);

--- Deleted "system classification and composition" (see Chapter 4 of the:2008 edition);

--- Added "General Requirements" (see Chapter 4);

--- Adjust the overall structure, and adjust the configuration table of residential security

facilities to Appendix A (see Appendix A,:2008 edition) of table 1);

--- Added "Protection parts and areas" (see Chapter 5);

--- Added "three-level prevention requirements" (see Chapter 6);

--- Added "Secondary Prevention Requirements" (see Chapter 7);

--- Added "first-level prevention requirements" (see Chapter 8);

--- In "System Technical Requirements", "General Requirements" (see 9.1) has been added;

--- Deleted "physical protection requirements" (see 5.3:1 and 5.5:2 of the:2008 edition);

--- Change "perimeter electronic protection system requirements" to "intrusion and emergency alarm system" (see 9.2, 5.3:2 of the:2008 edition);

--- Deleted "The community monitoring center should be able to send out sound and light alarm signals at the same time when receiving the alarm, and have the functions of recording, storage and printing:

"capable" and "the system should be fortified for 24 hours" (see 5.3:2:6 and 5.3:2:7 of the:2008 edition);

--- Increased the length of alarm storage time requirements for intrusion and emergency alarm systems (see 9.2:4);

--- Change "video security monitoring system requirements" to "video monitoring system" (see 9.3, 5.4:1 of the:2008 edition);

--- Delete the relevant parameters of the camera, lens, and gimbal (see 5.4:1:3, 5.4:1:4 and 5.4:1:5 of the:2008 edition);

--- Changed the video image quality and storage duration requirements (see 9.3:1, 5.4:1:7 and 9.3:2,:2008 version of 5.4:1:2,:2008 version of 5.4:1:8);

--- Added video analysis function requirements (see 9.3:3);

--- Added the requirements for the linkage between the system and the intrusion and emergency alarm system (see 9.3:4);

--- Increased system docking and multi-level networking requirements (see 9.3:5);

--- Change "Access Control System Requirements" to "Access Control System" (see 9.4, 5.4:4 of the:2008 edition);

--- Added functional requirements for special cases such as forcible destruction and illegal entry (see 9.4:1);

--- Changed the entry and exit control requirements for personnel escape and evacuation

(see 9.4:2, 5:4:4:4 of the:2008 edition);

--- Increased the storage duration requirement of event record information (see 9.4:3);

--- Increased the technical requirements when the control management host fails (see 9.4:4);

--- Change "Parking Garage (Yard) Safety Management System Requirements" to "Parking Garage (Yard) Safety Management System" (see 9.5,:2008 edition 5:4:3);

--- Added technical requirements for license plate recognition (see 9.5:2);

--- Increased the system information storage time requirements (see 9.5:3);

--- Added the functional requirements for the automatic or manual opening of the railing machine (see 9.5:4);

--- Change "visitor (visual) intercom system requirements" to "building apartment intercom system" (see 9.6, 5:5:1 of the:2008 edition);

--- Added visitor control and management requirements (see 9.6:1);

--- Added long-open alarm function requirements (see 9.6:3);

---Added the functional requirements that the user receiver can be connected to an external wireless extension terminal (see 9.6:5);

---Added the safety requirements when using the wireless extension terminal to control the opening of the door lock and the household alarm control management (see 9.6:6);

--- Change "electronic inspection system requirements" to "electronic inspection system" (see 9.7, 5:4:2 of the:2008 edition);

--- Added the requirement for setting inspection abnormal alarm rules (see 9.7:3);

--- Added the requirement for the storage time of system inspection information (see 9.7:4);

--- Deleted "Security Management System Requirements" (see 5.6:2 of the:2008 edition);

--- Added "Integration and Networking" (see 9.8);

--- Added "Network Information Security" (see 9.9);

--- Deleted "system pipe network and wiring equipment" (see 5.8 of the:2008 edition);

--- Deleted "system inspection, acceptance and maintenance" (see Chapter 6 of the:2008 edition);

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1 Scope

This document specifies the overall requirements, protection parts and areas, third-level prevention requirements, and second-level prevention requirements for the construction of residential security systems:

requirements, primary prevention requirements, and system technical requirements:

This document is applicable to the safety protection system of newly-built, renovated and expanded residential quarters:

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 28181 Technical requirements for information transmission, exchange and control of public safety video surveillance networking systems GB/T 31070.1 Building Intercom System Part 1: General Technical Requirements GB/T 31070.2 Building Intercom System Part 2: Technical Requirements for Full Digital System GB/T 32581 Technical requirements for intrusion and emergency alarm systems GB 35114 Public Safety Video Surveillance Network Information Security Technical Requirements GB/T 37078 Technical requirements for access control system GB 50348 Security Engineering Technical Standard GA/T 644 Electronic Inspection System Technical Requirements GA/T 761 Parking Garage (Yard) Safety Management System Technical Requirements GA1210 Floor apartment intercom system safety technical requirements GA/T 1399.2 Public Security Video Image Analysis System Part 2: Video Image Content Analysis and Description Technical Requirements GA/T 1400.4 Public Security Video Image Information Application System Part 4: Interface Protocol Requirements GA/T 1781 Technical requirements for public safety social video resources safety networking equipment

3 Terms and Definitions

The terms and definitions defined in GB 50348 and the following apply to this document:

closedresidentialarea A residential complex with a solid barrier enclosure:

Note: Physical barriers include artificial barriers such as walls and fences, as well as natural barriers such as rivers and mountains:

non-closedresidentialarea Residential complexes without physical barrier enclosure structures:

security