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# National Standard of the People's Republic of China

**GB 16796-2009**

Replace GB 16796-1997

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## **Safety requirements and test methods for security alarm equipment**

**Issued on September 30, 2009**

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**General Administration of Quality Supervision, Inspection and**

**Issue by Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of China**

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## Foreword

**All the technical contents in this Standard are mandatory.**

This Standard will replace GB 16796-1997 *Safety Requirements and Test Methods for Security Alarm Equipment*

Main differences between this Standard and GB 16796-1997:

- Added the general test conditions;
- Added the temperature rise and ignition technical requirements for the device under fault conditions;
- Added the technical requirements for the anti-acoustic pressure;
- Added the technical requirements for the components, batteries, monitors and displays;
- Modified the description of the accessible part;
- Modified the technical requirements and measurement methods of the creep age distance and the electric clearance;
- Modified the technical requirements and test methods of lightning protection;
- Modified the technical requirements of the power cord;
- Modified the technical requirements of the contact resistance;
- Modified the technical requirements of the anti-laser radiation;
- Modified the technical requirements of the anti-ionization radiation;
- Modified the technical requirements of the anti-microwave radiation;
- Modified the technical requirements of the anti-ultrasonic pressure.

In this Standard, Annex A, Annex B and Annex C are normative annexes.

This Standard is put forward by the Ministry of Public Security of the People's Republic of China.

This Standard is under the jurisdiction of Standardization Technical Committee for Security & Protection Alarm Systems of China (SAC/TC 100).

This Standard is drafted by: The National Testing Center for Quality of Security & Safety Alarm System Products (Beijing), the National Testing Center for Quality of Security & Safety Alarm System Products (Shanghai).

Main drafters of this Standard are: Teng Xu, Liu Lin, Lu Yuhua, Li Du, Hu Zhiang, Ren

Changqing, Mou Xiaosheng, and Rong Ling.

The issuances of previous versions of the Standard replaced by this Standard are as follows:

——GB 16796-1997.

# Safety requirements and test methods for security alarm equipment

## 1 Scope

This Standard specifies the basic safety technical requirements, test methods and inspection rules which should be followed by security alarm equipment in the marking, anti-electric shock, anti-lightning, anti-overheating, anti-implosion & burst inside, anti-laser radiation, anti-ionization radiation, anti-microwave radiation, anti-ultrasonic pressure and mechanical safety, etc. which are the fundamental basis of safety requirements for the design, manufacture, installation, use, inspection and formulation of all kinds of security alarm equipments.

This Standard applies to a variety of security alarm equipments.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 4208-2008 Degrees of protection provided by enclosure (IP code) (IEC 60529:2001, IDT)

GB 4793.1-2007 Safety requirements for electrical equipment for measurement, control, and laboratory use-Part 1: General requirements (IEC 61010-1: 2001, IDT)

GB 4943-2001 Safety of information technology equipment (idt IEC 60950-1:1999)

GB 7247.1-2001 Safety of laser products--Part 1: Equipment classification, requirements and users guide (idt IEC 60825-1:1993)

GB 8898-2001 Audio, video and similar electronic apparatus--Safety requirements (eqv IEC 60065:1998)

GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2005, IDT)

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