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

WH/T 86-2019

**Stage lighting console general technical conditions
(English Translation)**

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Reference

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Some contents of this document may involve patents, and the issuing agency of this document does not bear the responsibility for identifying these patents.

This standard was proposed by the Ministry of Culture and Tourism of the People's Republic of China.

This standard is under the jurisdiction of the National Theater Standardization Technical Committee (SAC/TC388).

The organization responsible for drafting this standard. Performance Venue Equipment Professional Committee of China Performing Arts Equipment Technology Association.

Participated in the drafting of this standard. Guangzhou Caiyi Lighting Co., Ltd., Beijing Dongyu Huaxing Culture and Art Co., Ltd., Beijing Fengshang Century Text Hua Art Co., Ltd., Hangzhou Yida Shi Lighting Equipment Co., Ltd., China Art Technology Research Institute.

1 Scope

This standard specifies the classification, technical requirements, test methods, inspection rules, signs, packaging, transportation, and storage of stage lighting consoles.

This standard applies to the power supply voltage of AC100V~240V, used to control lamps and related equipment in performing arts venues (hereinafter referred to as "lights with") stage lighting console.

This standard is used by stage lighting console manufacturers for inspection.

This standard can be used as the basis for users or third-party testing organizations to accept the stage lighting console.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 2423.1-2008 Environmental testing of electric and electronic products Part 2: Test method Test A. Low temperature GB/T 2423.2-2008 Environmental testing of electric and electronic products Part 2: Test method Test B. High temperature GB/T 2423.3-2016

Environmental Test Part 2: Test Method Test Cab. Constant Humidity Test GB/T 2423.5-1995 Environmental testing of electrical and electronic products Part 2: Test methods Test Ea and guidelines. Impact GB/T 2423.10-2008 Environmental testing of electric and electronic products Part 2: Test method Test Fc. Vibration (sinusoidal) GB/T 2829-2002 Periodic Inspection Attribute Sampling Procedure and Table (Applicable to the Inspection of Process Stability) GB/T 4857.5-1992 Packaging and transportation package drop test method GB 4943.1 Information Technology Equipment Safety Part 1: General Requirements GB 7000.1-2015 Lamps Part 1: General requirements and tests GB 9254-2008 Information Technology Equipment Radio Disturbance Limits and Measurement Methods GB/T 9286-1998 Cross-cut test of paint and varnish film WH/T 31-2008 Commonly used terms in stage lighting design WH/T 32 DMX512-A light control data transmission protocol

3 Terms and definitions

The following terms and definitions defined in WH/T 31-2008 apply to this document.

Attributes

The feature that the lamps can be controlled by the stage lighting console.

Stage lighting console A console that outputs control signals and controls attributes such as brightness and color.

effect

A process in which parameter values alternate or randomly change between two (more) different values according to a certain rule.