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

GB/T 22149-2008

**Overhead projectors -- Methods for measuring performance
characteristics**

透射式投影机 性能特性测定方法

(English Translation)

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Foreword

This revised standard adopts ISO 9767:1990 "photographic projector performance characteristics of the test and recording method." this standard and ISO 9767:1990 is the main differences.

- Deleted international standards foreword;
- Modify the scope statement;
- The Chapter 2, "Normative references" in the three international standard corresponding to industry standards;
- Deleted the Chapter 4 of the required information;
- Remove the preferred form of Chapter 11 performance reports;

The standard proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of movies and audio-visual industry machinery Machinery Standardization Technical Committee.

This standard was drafted. Qinhuangdao Audio-Visual Machinery Research Institute.

1 Scope

This standard specifies the effective photon flux transmissive projector and screen uniformity of illumination, the picture distortion, maximum effective projection angle of elevation and projection Determination of device mesa temperature rise.

This standard applies to JB/T 8259.1 in all types of transmissive projector. Not available in

reflective projection and other special purpose the projector.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard. However, according to research encourages the parties to the agreement Study whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

JB/T 6838 Slide film gate temperature test method (JB/T 6838-2007, ISO 7329. 1989, MOD) JB/T 8259.1 projection projector table size (JB/T 8259.1-1998, eqv ISO 7943-1. 1987) JB/T 8259.2 transmissive projector slides and slide frame size (JB/T 8259.2-2000neq ISO 7943-2. 1987) ISO 554. 1976 regulation and/or test standard specification atmosphere

3 Terms and Definitions

JB/T Terms and Definitions 8259.1 and JB/T 8259.2 established apply to this standard.

4.1 Environmental conditions

Ambient temperature shall be $23\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$.

The ambient temperature shall be recorded in the test results when testing.

If manufacturers have otherwise specified atmospheric conditions, such as a smaller range of ambient temperatures or may include associated humidity and atmospheric pressure Requirements, these conditions should be ISO 554. 1976 selected. When the manufacturer specified, shall be tested under the conditions of its provisions, and remember Recorded in the test report.

4.2 Pretreatment

Before starting the test, the projector should be in compliance with the environmental conditions of the test chamber is maintained at least 24h.

4.3 Power

Projector 4.3.1 should work at its rated power conditions.

4.3.2

When the projector has transformers, power supply voltage should be adjusted within 0.5% of the set value of the transformer; when not equipped with transformers, power supply Voltage should be adjusted in 0.5% of the rated voltage of the projector.

4.3.3

When adjusting the power supply voltage should be measured in the supply cable outlet.

4.3.4

By configuring adapt to local voltage lamp, the projector can exceed voltage range in the absence of the transformer in the power supply should test Voltage regulation to within 0.5% of the rated voltage of the lamp. If the lamp has been marked voltage range, the supply voltage should be adjusted in this range Within 0.5% of the median value.

4.4 Test conditions projector

4.4.1

Prior to testing, the projector should be placed on a fixed bracket, leaving a matte white screen vertically placed a suitable distance Off unless the projector manufacturers have specified the other dimension, should make the screening area and high image width are 1.5m. When the projector table size