

ICS 37.060.01

CCS A 15



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

GB/T 27508-2011

**Method for determining the degree of jump and weave in 70
mm, 35 mm and 16 mm motion-picture projected images**

70mm、35mm和16mm电影放映画面跳动和晃动等级测定方法

(English Translation)

Issued on: October 31, 2011

Implemented on: January 1, 2012

Issued by: Standardization Administration of China

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Foreword

This revised standard adopts SMPERP105-2003 "70mm, 35mm and 16mm film projection screen beating and shaking Ratings test methods".

The difference between standard and SMPERP105-2003 as follows.

- Deleted introduction;
- Remove the informative Appendix A and Appendix B;
- Beating and shaking the percentage representation is converted to numerical representation;
- Retained only 70mm test strip use (accounting format percentage/square) indicates the amount of movement of value;
- Full article according to China Standard GB/T 1.1-2000 make editorial changes.

The standard proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of Machinery Industry movies and audio-visual machinery Standardization Technical Committee (TC4).

This standard was drafted. Qinhuangdao Audio-Visual Machinery Research Institute, Chengdu Pfister Technology Co., Ltd., Guangzhou Grandview Crystal Screen Co., Ma'anshan City star screen Co., Ltd. Qinhuangdao Changlong screen, audio-visual screen Zhangjiagang City Star Factory, Harbin Film Machinery Plant, Guangdong Pearl River Film Equipment Manufacturing Co., Ltd., Tianjin film machinery factory in Nanjing listen Kim Nam Television Equipment Co., Ltd., China People's Liberation PLA fifth three hundred eleven plants, Instrument Co., Ltd. Nanjing New World Changjiang River, Shanghai-industry Microelectronics Technology Co., Ltd., Shanghai Quality Supervision, Inspection Technology Research Institute inspection, Zhangjiagang City Equipment Co., Ltd. Samsung screens.

1 Scope

This standard specifies the 70mm, 35mm and 16mm feature films screening picture is not stability, acceptable Picture bounces and Akira the actual dynamic range classification.

The standard also specifies the screen beating and shaking measurement method.

This standard applies to 70mm, 35mm and 16mm film projection screen test.

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, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

JB/T 9427.7 35mm film projection screen test strip technical conditions JB/T 9427.8 16mm film projection screen test strip technical conditions SMPTE RP91 70mm film projection screen test strip technical conditions

3 Definitions

The following terms and definitions apply to this standard.

The apparent size of the picture screen apparentsizeofscreenimage Picture bounces audience and shaking the feeling effects are projected videos and screen size of the apparent size of the screen. This standard determines that there the apparent size of the following four categories.

a) 70mm large apparent.

With 70mm film projection, the screen is the last row of the apparent large screen viewing distance is less than or equal to 3.7 times the screen height.

b) 35mm and 16mm large apparent.

The screen is the last row of the apparent large screen viewing distance is less than or equal to 3.7 times the screen height (vertical viewing angle is greater than or equal at 15 °).

c) 35mm and 16mm are apparent.

The screen picture is apparent in the last row between viewing distance of 3.7 times to 5.7 times the screen height (vertical view angle of 10 ° ~ 15 °).

d) 35mm and 16mm small apparent.

The screen picture is the last row of little apparent viewing distance is greater than 5.7

times the screen height (vertical viewing angle of less than 10 °).

Beating picturejump

On the screen showing undesirable movement in the vertical direction (in the conventional system is running perpendicular to the film). Beating a rapid Movement, and its frequency is usually the same as the movie screening frequency (24 frames/s, etc.).

Shaking pictureweave on the screen showing undesirable movement in the horizontal direction (in the conventional system is running perpendicular to the film). Typically frequency shaking to Much lower than the frequency of screening, but less obvious.