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SMPTE RECOMMENDED PRACTICE

RP 75-2002

Revision of RP 75-1997

Specifications for Flutter Test Film for 35-mm Studio Audio Reproducers, Magnetic Type



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1 Scope

This practice specifies a test film for determining the presence of flutter in 35-mm motion-picture studio magnetic audio reproducers operating at 96 perforations per second or approximately 90 ft (27 m) per minute for use with one-, three-, four-, and six-track audio systems.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this practice. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this practice are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

AES 6-1982, Method for Measurement of Weighted Peak Flutter of Sound Recording and Reproducing Equipment

AES 7-1982 (R1992), Method of Measuring Recorded Flux of Magnetic Sound Records at Medium Wavelengths

ANSI/SMPTE 86-1996, Motion-Picture Film — Magnetic Audio Records — Two, Three, Four and Six Records on 35-mm and One Record on 17.5-mm Magnetic Film

ANSI/SMPTE 139-1996, Motion-Picture Film (35-mm) — Perforated KS

SMPTE 223M-2001, Motion-Picture Film — Safety Film

3 Test film signal

3.1 Frequency

The audio record shall reproduce at a frequency of $3150 \text{ Hz} \pm 25 \text{ Hz}$ when the linear speed of the film is 96 perforations per second or approximately 90 ft (27 m) per minute (18 in or 46 cm per second).

3.2 Distortion

The total harmonic distortion of the recorded signal shall not exceed 0.2%.

3.3 Audio record

The audio record shall be recorded so that it extends from one edge of the film to the other.