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SMPTE RECOMMENDED PRACTICE

Specifications for Audio Level and Multifrequency Test Film for 70-mm Striped Six-Track Release Print Audio Reproducers, Magnetic Type



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1 Scope

This practice specifies an audio frequency test film to be used for adjusting the sensitivity and frequency response of 70-mm striped six-track motion-picture magnetic audio reproducers intended for release prints operating at 120 perforations per second or approximately 112 ft (34 m) per minute.

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 185-1993, Motion-Picture Film (70-mm) — Six Magnetic Records on Release Prints — Position, Dimensions, Reproducing Speed and Identity

SMPTE 119-1999, Motion-Picture Film (70-mm) — Perforated 65-mm, KS-1870

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

3 Test film signal

3.1 Frequencies

The audio record on the film shall be a recording which will reproduce at the frequencies specified in 6.4 when the linear speed of the film is 120 perforations per second or approximately 112 ft (34 m) per minute (22.4 in [56.9 cm] per second).

3.2 Distortion

The total harmonic distortion of the recorded reference signal shall not exceed 0.2% (see 6.1).

3.3 Audio record

The audio record shall be recorded in accordance with ANSI/SMPTE 185.