RP 64-1999
Revision of RP 64-1994

SMPTE RECOMMENDED PRACTICE

Specifications for Audio-Focusing Test Film for 35-mm Audio Reproducers, Photographic Type

1 Scope

This practice specifies a test film for use in focusing the scanning beam of 35-mm motion-picture photographic audio reproducers operating at 90 ft (27.4 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.

ANSI S4.3-1982 (R1992), Method for Measurement of Weighted Peak Flutter of Sound Recording and Reproducing Equipment

ANSI/SMPTE 40-1997, Motion-Picture Film (35-mm) — Release Prints — Photographic Audio Records

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

ANSI/SMPTE 223M-1996, Motion-Picture Film — Safety Film

3 Test film signal

3.1 Frequency

The audio record on the film shall reproduce at a frequency of 10 kHz ± 100 Hz when the linear velocity of the film is 96 perforations per second, which is approximately 90 ft (27 m) per minute (18 in [45.7 cm] per second).

3.2 Distortion

The total harmonic distortion of the recorded signals shall not exceed 1%.

3.3 Audio record

The location and dimensions of the audio record shall be in accordance with ANSI/SMPTE 40.

3.4 Recording

The film shall be a print from an original negative and shall contain a sinusoidal, variable-area record recorded at 1 dB below 100% modulation. The variation in amplitude shall not be more than ± 0.5 dB.

3.5 Flutter

The weighted peak flutter of the audio record shall not exceed ± 0.05% when measured in accordance with ANSI S4.3.

3.6 Azimuth

The azimuth of the audio record shall be 90° ± 3' to the reference edge of the film.

4 Film stock

The film stock, preferably polyester, shall be splice-free, of the low-shrinkage safety type in compliance with ANSI/SMPTE 223M, and cut and perforated in accordance with long-pitch dimensions specified in ANSI/SMPTE 139.

5 Identification

Each test film shall be identified by a suitable identification marking. This marking shall be printed lengthwise in the central portion of the film and the spacing between consecutive titles shall be approximately 12 in (30 cm).

Approved April 22, 1999