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RP 69-2002
Revision of RP 69-1997

SMPTE RECOMMENDED PRACTICE

Specifications for Scanning-Beam Uniformity Test Film for 35-mm Motion-Picture Audio Reproducers

1 Scope

1.1 This practice describes a test film, the use of which is limited to the determination of the uniformity of scanning-beam illumination in 35-mm motion-picture audio reproducers.

1.2 This test film is not intended to be used for the determination of the correct position of the scanning beam with respect to the reference edge of the film.

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

SMPTE 40-2002, Motion-Picture Film (35-mm) — Release Prints — Photographic Audio Records

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

3 Test film

3.1 The test film shall be a directly-recorded positive or a print from an original negative.

3.2 The test record on the film shall reproduce at a frequency of 1000 Hz ± 20 Hz when the linear velocity of the film is 96 perforations per second or approximately 90 ft/min (18 in or 45.7 cm/s).

3.3 At full modulation, the test record shall have a width of 0.0050 in ± 0.0005 in (0.127 mm ± 0.013 mm), as measured between opposite amplitude peaks. It shall be approximately sinusoidal.

3.4 The test record shall move laterally at a uniform rate from one edge of the scanned area to the other, as specified in figure 1.

3.5 In any one test film, the combined effect of variation in modulation width and density of the exposed and unexposed areas shall result in a signal amplitude variation not exceeding ± 0.8 dB with respect to the average signal amplitude.

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