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Note:

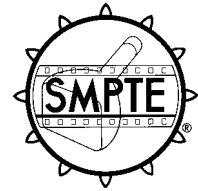
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SMPTE RECOMMENDED PRACTICE**RP 27.4-1994**

Revision of RP 27.4-1985

Specifications for an Operational Test Pattern for Checking Jitter, Weave and Travel Ghost in Television Projectors



Page 1 of 4 pages

1 Scope

This practice specifies the format, dimensions, and optical densities for a test pattern transparency to be used as an operational tool for measurement of television film projector image stability.

2 Purpose**2.1 Specifications**

This practice specifies a test film to facilitate day-to-day operational checking of travel ghost, weave, and jitter in 35- and 16-mm television projectors.

2.1.1 Jitter steps

The steps at the top and bottom of the pattern are used for measuring picture jitter vertically.

2.1.2 Weave steps

The steps at the right and left of the pattern are used for measuring picture weave horizontally.

2.1.3 Central window

The central window or rectangular area in the center of the pattern shall be used for measurement of jitter and weave with a grating pattern or a line selector on an oscilloscope.

3 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 standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

ANSI IT2.19-1990, Photography — Density Measurements — Geometric Conditions for Transmission Density

ANSI/SMPTE 7-1994, Motion-Picture Film (16-mm) — Camera Aperture Image and Usage

ANSI/SMPTE 59-1991, Motion-Picture Film (35-mm) — Camera Aperture Images and Usage

ANSI/SMPTE 96-1992, Television — 35- and 16-mm Motion-Picture Film and 2x2-in Slides — Scanned Area and Photographic Image Area for 4:3 Aspect Ratio

ANSI/SMPTE 109-1992, Motion-Picture Film (16-mm) — Perforated 1R and 2R

ANSI/SMPTE 139-1986 (R1991), Motion-Picture Film (35-mm) — Perforated KS

4 Format**4.1 Pattern**

A reproduction of the test pattern is shown in figure 1.

4.2 Window configuration

The windows shall be staggered so that any trailing or travel ghosts due to the projector shutter opening early or late can be seen above or below the windows.