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SMPTE RECOMMENDED PRACTICE

Specifications for 16-mm Registration Test Film



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1 Scope

- 1.1** This practice specifies the subject material and the dimensions and location of the subject material for a 16-mm test film of high accuracy to assist the user in achieving several quantitative visual tests (see annex A.1.)
- 1.2** The film can be used to test motion-picture projectors and printers.

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 109-1998, Motion-Picture Film (16-mm) — Perforated 1R and 2R

SMPTE 7-1999, Motion-Picture Film (16-mm) — Camera Aperture Image and Usage

SMPTE 233-2003, Motion-Picture Film (16-mm) — Projectable Image Area and Projector Usage

3 Dimensions

The dimensions and location of the target areas shall be as specified in the figures. The patterns in figures 3 and 4 appear in the nine circular areas of the test pattern shown in figures 1 and 2.

4 Description

- 4.1** The test film shall be produced as a camera original film photographed on high-contrast, high-definition, positive-type motion-picture stock made in accordance with ANSI/SMPTE 109.
- 4.2** The diffuse density of the background area shall be 1.80 ± 0.10 .
- 4.3** The camera and projector image areas shall be in accordance with SMPTE 7 and SMPTE 233.
- 4.4** The resolution targets shall be photographed in a magnification which results in the concentric rings reading in lines per millimeter on the film (20, 30, 40, 50, and 60). The rosette in the center shall indicate a measurement from 60 to 240 lines per millimeter (see annex A.6).