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SMPTE STANDARD

SMPTE 164-2002Revision of
ANSI/SMPTE 164-1993

for Motion-Picture Film (8-mm Type S) — Magnetic Audio Record — Position, Dimensions and Reproducing Speed



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1 Scope

1.1 This standard specifies the position, dimensions, and reproducing speed of the magnetic audio record on 8-mm type S motion-picture film having a nominal 0.027-in (0.69-mm) width magnetic stripe.

1.2 This standard also specifies the longitudinal picture-audio displacement on the film.

2 Audio record

2.1 The lateral location and width of the magnetic audio record shall be as specified in figure 1 and table 1.

2.2 The recording shall be made so that the azimuth of the record is at an angle of 90 ± 5 to the reference edge of the film. (The 90° angle is established from a datum guide or rail 6 pitches in length.)

2.3 With the direction of travel as shown in figure 1, the magnetic striping shall be on the surface of the film facing toward the projector lamp for direct front projection with conventional optics.

3 Recording speed

The recording shall be made so that the audio record will reproduce properly at 24 perforations per second (approximately 20 ft [6.1 m] per minute or 4 in [102 mm] per second). This is equivalent to the projection speed of the picture film of 24 frames per second.

4 Longitudinal picture-audio displacement

The magnetic audio record on the film shall precede the center of the corresponding picture by a distance of 18 frames $\pm \frac{1}{2}$ frame.