

# SMPTE STANDARD

**SMPTE 161-1998**Revision of  
ANSI/SMPTE 161-1992

## for Motion-Picture Film (8-mm Type S) — Magnetic Striping



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### 1 Scope

This standard specifies the location and dimensions of the magnetic recording stripe and the balance stripe applied to 8-mm motion-picture film with one row of 8-mm type S perforations.

### 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was 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 standard indicated below.

ANSI/SMPTE 149-1994, Motion-Picture Film (8-mm Type S) — Perforated 1R

### 3 Dimensions

**3.1** The location and dimensions of the magnetic recording stripe and the balance stripe shall be as given in figure 1 and table 1.

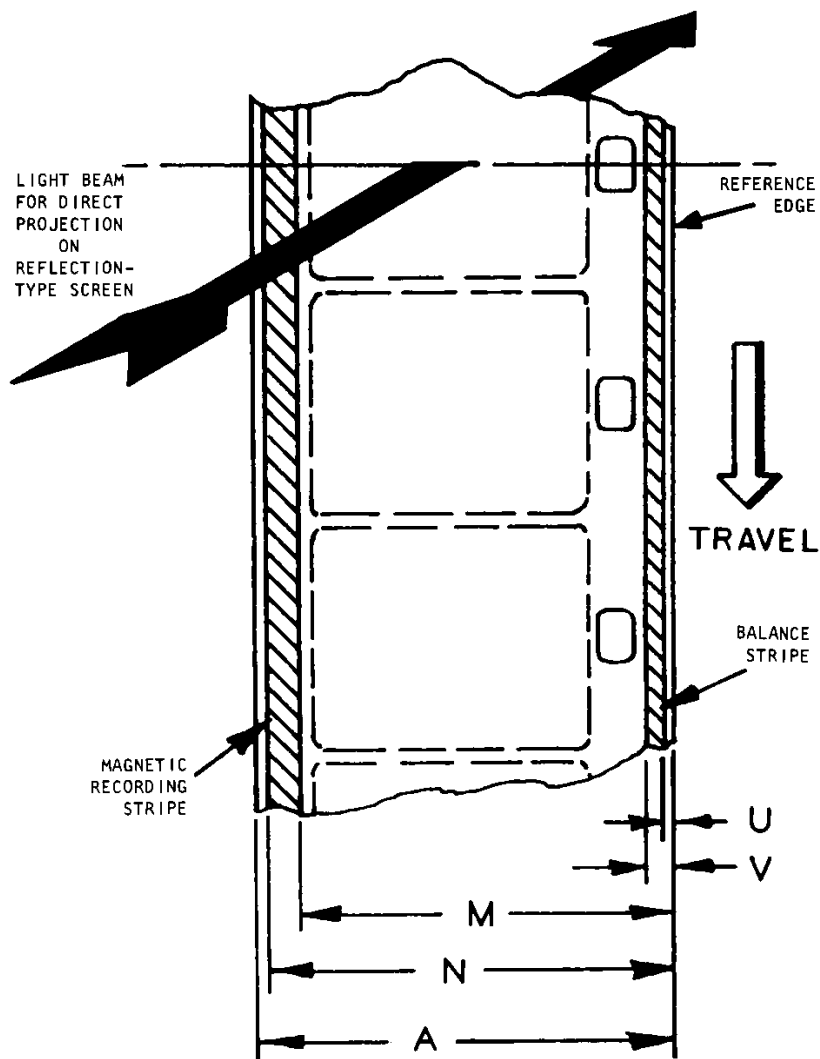
**3.2** The magnetic stripe shall be on the side of the film which will be toward the light source when used on a projector arranged for direct front projection on a reflection-type screen.

**3.3** The magnetic stripe shall be adjacent to the unperforated edge and is intended for the audio record. The narrow stripe adjacent to the perforated edge is a balance stripe. The balance stripe may be a stripe of magnetic or nonmagnetic material of such thickness that the balance and recording stripes project above the surface of the film to substantially the same degree.

### 4 Film stock

The film stock used shall be safety type, cut and perforated in accordance with ANSI/SMPTE 149.

NOTE — Notwithstanding the tolerance on dimensions M and N, the width of the stripe, dimension N minus M, shall be 0.0250 in (0.635 mm) minimum.



NOTE – Film as seen looking toward lens

**Figure 1 – Dimensions**

**Table 1 – Specifications**

Dimensions	Inches	Millimeters
A	0.314 nom	7.98 nom
M <sup>1)</sup>	$0.285 \pm 0.002$	$7.24 \pm 0.05$
N <sup>1)</sup>	$0.312 \pm 0.002$	$7.92 \pm 0.05$
U	$0.003 \pm 0.003$	$0.08 \pm 0.08$
V	$0.015 \pm 0.003$	$0.38 \pm 0.08$
<sup>1)</sup> See note.		