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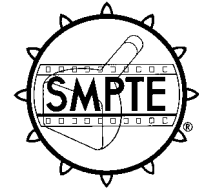
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SMPTE STANDARD

for Video Recording —
3/4-in Type E Helical Scan —
Records

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1 Scope

This standard specifies the location of the edges of the video, audio, and tracking-control records and the mechanical separation of the simultaneously recorded information of the video and audio records, as recorded on a 3/4-in type E helical-scan video tape recording cassette system, operating at a tape speed of 95.3 mm/s (3.752 in/s).

2 Definitions

2.1 downstream: Pertaining to locations on the tape longitudinally displaced from a given reference point in the direction of tape travel.

2.2 longitudinal: Pertaining to dimensions parallel to the direction of tape travel.

2.3 reference edge: The lower edge of the magnetic tape nearest the reference plane of the cassette.

2.4 trailing edge of video track: The upstream edge of the video track.

2.5 transverse: Pertaining to dimensions perpendicular to the direction of tape travel.

2.6 transverse reference line: An imaginary line on the magnetically recorded tape perpendicular

to the reference edge and passing through the trailing edge of the video track at its highest point (trailing edge at the end of the video track).

2.7 upstream: Pertaining to locations on the tape longitudinally displaced from a given reference point in the direction opposite tape travel.

3 General specifications**3.1 Dimensions**

Metric dimensions are primary.

3.2 Measurement conditions

The dimensions shall be measured with no transverse or longitudinal tension applied to the tape.

3.3 Measurement environment

The temperature shall be $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$ ($73^{\circ}\text{F} \pm 2^{\circ}\text{F}$) with a relative humidity of $(50 \pm 2)\%$.

3.4 Magnetic coating

With the direction of tape travel as shown in figure 1, the magnetic coating is on the surface facing the observer.

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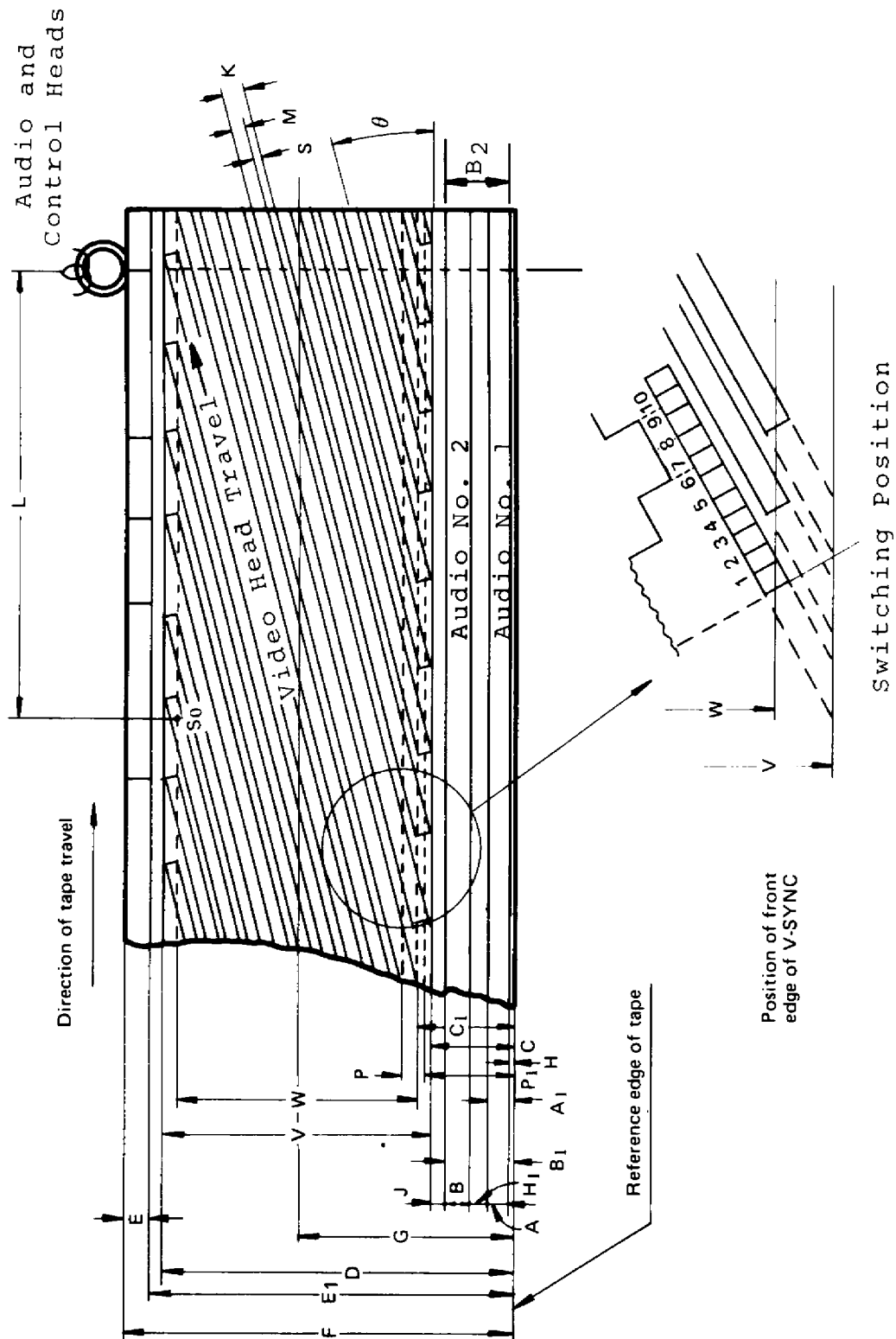


Figure 1 --Track configuration and dimensions from magneto-sensitive side