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SMPTE RECOMMENDED PRACTICE

RP 93-1999

Revision of RP 93-1994

Requirements for Recording American National Standard Time and Control Code on 1-in Type B Helical-Scan Video Tape Recorders



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1 Scope

This practice specifies the recorded signal and the conditions for recording the time and control code on 1-in type B helical-scan video tape recorders as specified in ANSI/SMPTE 12M.

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 12M-1995, Television, Audio and Film — Time and Control Code

SMPTE 15M-1998, Television Analog Recording — 1-in Type B Helical Scan — Basic System Parameters

SMPTE 16M-1998, Television Analog Recording — 1-in Type B Helical Scan — Records

SMPTE 17M-1998, Television Analog Recording — 1-in Type B Helical Scan — Frequency Response and Operating Level

SMPTE RP 83-1996, Specifications of Tracking Control Record for 1-in Type B Helical-Scan Television Analog Recording

SMPTE RP 84-1996, Reference Carrier Frequencies and Preemphasis Characteristics for 1-in Type B Helical-Scan Television Analog Recording

3 Position of code on video tape

3.1 The code, if used, shall be recorded on the audio 3 track.

3.2 The start of the address for original recording shall be as specified in ANSI/SMPTE 12M.

3.3 The position of the address start point along the tape is determined by the position of the appropriate audio head gap.

4 Recorded signal

4.1 The input waveform of the recorder for original time and control code recording shall be as specified in ANSI/SMPTE 12M.

4.2 The response of the recording channel shall be as specified in ANSI/SMPTE 17M.

4.3 The amplitude of the recorded signal shall be such as to produce a peak-to-peak short circuit recorded flux level on the tape of at least 185 nWb/m of track width.