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SMPTE RECOMMENDED PRACTICE**RP 150-2000**

Revision of RP 150-1993

Channel Assignments and Test Leader for Magnetic Film Masters Intended for Transfer to Video Media Having Stereo Audio



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1 Scope

This practice specifies the left- and right-channel assignments for stereo usage on magnetic film masters intended for transfer to video media. It also gives recommended test signals for use on the head leader of the magnetic master.

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/IEEE 152-1992, Audio Program Level Measurement

ANSI/SMPTE 86-1996, Motion-Picture Film — Magnetic Audio Records — Two, Three, Four and Six Records on 35-mm and One Record on 17.5-mm Magnetic Film

ANSI/SMPTE 208M-1992 (R1998), Motion-Picture Film — 35- and 16-mm Magnetic Audio Records — Recorded Characteristics

SMPTE EG 9-1995, Audio Recording Reference Level for Post-Production of Motion-Picture Related Materials

3 Track assignment

3.1 Track 1 shall contain the record intended for the left loudspeaker, and track 2 shall contain the record intended for the right loudspeaker, with left and right determined from the position

of a viewer watching a screen. When more than two tracks are recorded, all odd-numbered tracks shall contain information for the left loudspeaker, and all even-numbered tracks shall contain information for the right loudspeaker.

3.2 The identity of the track numbers is contained in ANSI/SMPTE 86, which specifies the position, dimensions, and reproducing speed for the track format in use.

4 Head leader

4.1 The first test section of the leader shall be a 1-kHz sine-wave signal recorded at reference level. The tone shall be recorded simultaneously and in phase on the channels of the master for a duration of 10 s. The reference level is specified in SMPTE EG 9.

4.2 The second section shall identify the channels audibly by sequencing in time one beep on the left channel and two beeps on the right channel.

4.3 The third section shall be a 10-kHz sine-wave signal recorded at a relative flux level equal to reference level, with the recorded characteristic frequency response of ANSI/SMPTE 208M applied. The tone shall be recorded simultaneously and in phase on the channels of the master for a duration of 20 s.

4.4 The fourth section shall be pink noise recorded simultaneously and in phase on the two channels of the master for a duration of 30 s. It shall be recorded at the reference level as read by a vu meter at 15 dB below the reference level, with the recorded characteristic specified in 4.3 applied. (The objective of using a pink-noise test signal is to obtain a reference signal with equal energy in equal logarithmic frequency intervals within the audio bandwidth.)