

**Audio Channel Assignments for
Digital Television Recorders (DTRs) —
Amendment 1**



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Foreword

SMPTE (the Society of Motion Picture and Television Engineers) is an internationally-recognized standards developing organization. Headquartered and incorporated in the United States of America, SMPTE has members in over 80 countries on six continents. SMPTE's Engineering Documents, including Standards, Recommended Practices, Engineering Guidelines and Registered Disclosure Documents, are prepared by SMPTE's Technology Committees. Participation in these Committees is open to all with a bona fide interest in their work. SMPTE cooperates closely with other standards-developing organizations, including ISO, IEC and ITU.

SMPTE Engineering Documents are drafted in accordance with the rules given in Part XIII of its Administrative Practices.

SMPTE Amendment 1 to SMPTE 2035-2009 was prepared by Technology Committee 24TB.

1 Scope

The purpose of this amendment is to add the 12-Track Audio Channel to Audio Track assignments from Table 3 of Appendix 1 to Annex 1 of ITU-R BR.1384-1, Parameters for international exchange of multi-channel sound recordings with or without accompanying picture, to Table 2 of SMPTE 2035-2009.

This will add Cases 13d and 13e, both in common use in Japan, to Table 2 of SMPTE 2035-2009 and bring the channel to track assignments of both documents into mutual conformance.

2 Amendment of Section 5.2, Table 2

Replace Table 2 of Section 5.2, Audio Channel to Audio Track Assignments, with the following:

Table 2 – 12-Track Audio Channel to Audio Track assignments by Audio Program type

Case	Track Number	1	2	3	4	5	6	7	8	9	10	11	12
	Program Type												
13a	Stereo Pgms + Multich Pgm	Complete Mix Left total (Lt)	Complete Mix Right total (Rt)	Lt, M&E	Rt, M&E	Left	Right	Center	Low Freq Effects	Left Surround	Right Surround	Freely Assigned	Freely Assigned
13b	Stereo Pgm (2 Languages) + Multich Pgm	Complete Mix Left total (Lt) (Language 1)	Complete Mix Right total (Rt) (Language 1)	Complete Mix Left total (Lt) (Language 2)	Complete Mix Right total (Rt) (Language 2)	Left (Language 1)	Right (Language 1)	Center (Language 1)	Low Freq Effects (Language 1)	Left Surround (Language 1)	Right Surround (Language 1)	Freely Assigned	Freely Assigned
13c	Stereo Pgm (2 Languages) + Multichannel coded audio	Complete Mix Left total (Lt) (Language 1)	Complete Mix Right total (Rt) (Language 1)	Complete Mix Left total (Lt) (Language 2)	Complete Mix Right total (Rt) (Language 2)	Non PCM Audio per SMPTE 337 (Language 1)	Non PCM Audio per SMPTE 337 (Language 1)	Non PCM Audio per SMPTE 337 (Language 2)	Non PCM Audio per SMPTE 337 (Language 2)	Freely Assigned	Freely Assigned	Freely Assigned	Freely Assigned
13d	Multichannel Pgm + Stereo Pgms	Left	Right	Center	Low Freq Effects	Left Surround	Right Surround	Complete Mix Left total (Lt)	Complete Mix Right total (Rt)	Lt, M&E	Rt, M&E	Freely Assigned	Freely Assigned
13e	Multichannel Pgm + Stereo Pgm	Left	Right	Center	Low Freq Effects	Left Surround	Right Surround	Complete Mix Left total (Lt)	Complete Mix Right total (Rt)	Freely Assigned	Freely Assigned	Freely Assigned	Freely Assigned