FILM-TECH

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DIGITAL ENTERTAINMENT	AP20 Dolby® Dig	ital Operation	NUMBER TN-H459	REV A	PAGE 1 of 3
DEPARTMENT	CREATED BY:	EFFECTIVE DATE	APPROVED BY:		<u>'</u> :
Engineering	F Pflaum	November 1, 2010	D Evre		

Introduction

The AP20 accepts a Dolby[®] Digital audio stream from a DVD, Game Console, Satellite link or other source device. The Dolby[®] Digital bit stream is automatically detected and decoded internally by the AP20 software. The decoded stream will be routed to the first eight channels internally on the AP20.

- ☐ This feature is only available with AP20 system software V1.02.00 and above.
- ☑ Please also refer to the AP20 Installation and Operating Guide (*TM-H392 1.2* and above) for general information on the AP20.

Inputs that support Dolby® Digital

The following digital inputs accept and the Dolby® Digital audio stream:

- HDMI (ports 1-4)
- S/PDIF1 (TosLink)
- S/PDIF2 (TosLink)
- S/PDIF3 (Coax)

Operation

The AP20 monitors the selected input signal from one of the S/PDIF or HDMI ports to determine the type of audio signal received. If a Dolby® Digital stream is detected, the AP20 decodes the audio and places it on the first 8 channels (see Table 1).

If an un-encoded digital signal is received (i.e. 2-channel PCM), the signal is routed to the first two channels in the AP20 (Left and Right) and the others remain muted. The HDMI also supports 6 or 8 channel un-encoded PCM signal. The AP20 will switch between Dolby® Digital and PCM as the signal type changes. This occurs automatically within the AP20.

Table 1: Dolby® Digital Channel Assignments

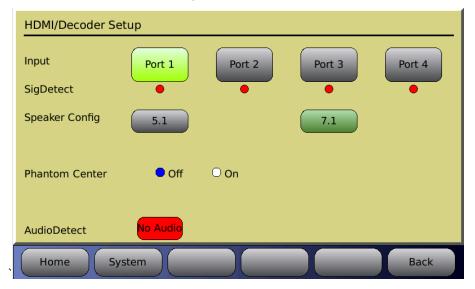
CHANNEL NUMBER	CHANNEL NAME	
1	Left	
2	Right	
3	Center	
4	LFE	
5	Left Surround	
6	Right Surround	
7	Back Surround (only with 6.1 playback)	
8		

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HDMI Setup Options

Additional Dolby[®] Digital options are available to set the speaker configuration and phantom center option. These options are accessed through the menu path Formats \rightarrow Format Options \rightarrow HDMI Options. (Note: You must first select a format with HDMI as the source).



Speaker Config

- 5.1 When playing Dolby® Digital 6.1 audio the back surround channel information will be mixed into the left surround and right surround channels.
- 7.1 When playing Dolby® Digital 6.1 audio the back surround channel information is placed on both back surround channels: 7 and 8. When playing 5.1 audio, the back surround channels are silent.

Phantom Center

- Off Normal operation with a center channel speaker.
- On Use when center channel speaker is not available. The information from the center channel plays on the left and right channels. Note: This is only in effect while playing Dolby® Digital audio.



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