



CROWN[®]
by HARMAN

SYSTEM
TECHNOLOGY
BULLETIN

Crown Field Support Engineering

1718 W. Mishawaka Rd., Elkhart IN. 46517

Ph 574-294-8200

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Issue Date: 06-02-2014

Ref. No: Cequel #0005

Subject:

Applicability:

This document defines common terms related to the XTi/CDi/DSi series amplifiers Terms defined:

1. DSP OFF
2. Input Y
3. Ch1 + Ch2
4. Hi-Z/Low-Z

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1. **'DSP OFF':** DSP OFF is the default preset that all XTi/CDi/DSi amplifiers have loaded from the factory. The preset contains no DSP settings, meaning the amplifier will pass the input signal to the output unaltered. With the DSP OFF preset loaded settings in the DSP can be modified although they cannot be saved to the preset.
2. **'Input Y':** Input Y is an available input mode setting on the XTi/CDi/DSi amplifiers. With Input Y enabled, the amp will take signal applied to Channel 1's input and send that signal to both Channel 1 and 2 outputs. Channel 1 input is the only input used with Input Y enabled. Additionally, Channel 1 level control on the amplifier is the only level control that can be used with Input Y enabled.
3. **'Ch1 + Ch2':** Ch1 + Ch2 is another available input mode setting on XTi/CDi/DSi amplifiers. With the Ch1 + Ch2 setting enabled, the amplifier will sum the input signals on Channel 1 and 2 inputs and send the summed signals to both channel outputs. This summing also provides a 6dB bump in signal gain. You also have to set each level pot equally, they work tandem with each other. If you don't the input signal level defaults to the pot that is set lower than the other and you lose 3dB in signal gain.
4. **'Hi-Z/Low-Z':** Hi-Z and Low-Z are available output mode settings on XTi/CDi/DSi. The amplifiers come from the factory configured in Low-Z mode meaning they are configured to drive low impedance (2, 4, or 8 ohms) speakers. The amplifiers can be set to Hi-Z mode in order to drive high impedance 70V speakers in distributed audio systems.

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