MTD V7

Version 7 represents the most comprehensive set of presets released to date. Due to the number of new presets introduced, it was necessary to divide preset libraries into 5 types:

V-DOSC, dV-DOSC, KUDO, L-ACOUSTICS and MTD

Features for the MTD V7 preset library are described in the following.

INTRODUCTION

MTD presets are configured in the same format as XT presets (i.e., FRONT, FILL, MONITOR and 3W, 3WX for all subwoofer combinations) for XTA DP224, DP226 and BSS Soundweb processors only (MTD presets for BSS 366, BSS Minidrive and Lake Contour are not available).

MTD 2-WAY PRESETS

FRONT presets are for standalone FOH operation (without subwoofers) where low and high frequency shelving equalization provides a response contour suitable for music applications.

FILL presets provide nominally flat response for use in speech reinforcement and classical music applications or when MTDs are used as a close proximity fill enclosure. (Both FRONT and FILL presets are derived under freefield measurement conditions)

MONITOR presets include additional low frequency equalization to account for half-space loading conditions and are intended for floor monitoring applications or fixed installations where the MTD enclosure is wall- or ceiling-mounted.

MTD 3-WAY PRESETS (3W, 3WX)

3W presets utilize a complimentary 100 Hz crossover point for the MTD enclosure and its companion subwoofer and are recommended for closely coupled applications.

3WX presets are for configurations where MTD enclosures are flown and subwoofers are ground stacked. An 80 Hz low pass filter is applied to the subwoofers and MTD low frequency response extends to 45 Hz or 50 Hz.

MTD V7
PRESET LIBRARY
README FILE

CHANNEL ASSIGNMENT CONFIGURATION (XTA 226)

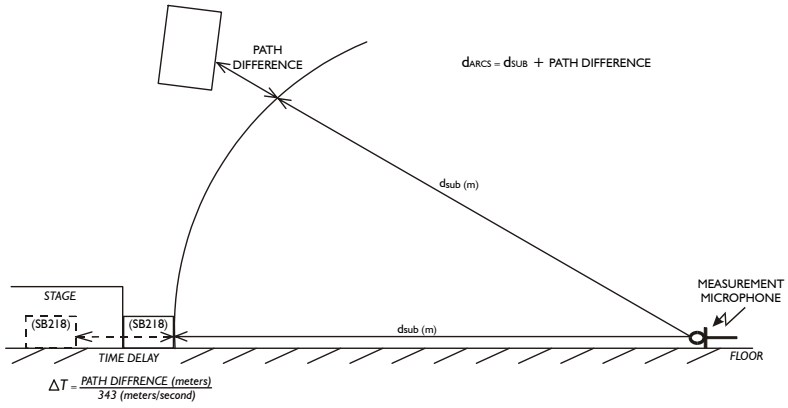
All 2-way presets for the MTD115b (active) are configured in stereo 3-way mode, i.e., channel A and B Low/High outputs are on output channels 2 / 3 and 5 / 6, respectively. This means that drive racks do not require recabling when changing from 3-way to 2-way presets. For 2-way presets, channels 1 and 4 are unlocked and available for programming of passive fill loudspeakers, subwoofers or, alternatively, for monitoring input equalization when using the Smaart measurement system. This channel assignment strategy allows for logical patching between digital signal processor outputs and L-ACOUSTICS Control Output panel (CO6 or CO24) inputs, i.e., channels are patched 1:1, 2:2, 3:3 etc, helping to eliminate potential sources of error due to mispatching.

The adopted channel assignment configuration is also intended for use with the recently-introduced COMB connectors designed for stereo 2-way and stereo 3-way applications: 3W(A), 3W(B), SUB(A), SUB(B), 2W STEREO, 2W(A), 2W(B):

DSP OUTPUT CHANNEL	3W STEREO PRESET	2W STEREO PRESET	CO6 / CO24 CHANNEL
1	SUB(A)		1
2	LO (A)	LO (A)	2
3	HI (A)	HI (A)	3
4	SUB (B)		4
5	LO (B)	LO (B)	5
6	HI (B)	HI (B)	6

SUBWOOFER TIME ALIGNMENT RECOMMENDATIONS

For the MTD V7 release, sub/low sections are "pre-aligned" for all 3-way presets in a closely coupled measurement configuration. This way, when MTD enclosures are flown and subs are ground stacked all that is required is to measure the geometric/physical path difference (at your reference point of choice) and add this to the standard pre-aligned sub delay. If using Bushnell Rangefinders to measure the path difference, the accuracy corresponds to +/- 1 meter so the geometric starting point can be varied by +/- 3 msec to verify optimum summation. This provides a quick and easy subwoofer alignment technique for those who don't have the measurement gear required to measure impulse responses. Basically, when you look at the separate impulse responses for sub and low sections, there is a "sine wave" signature that needs to be aligned.



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