



JBL VRX900 SERIES V5 README FILE

INTRODUCTION

JBL VRX900 Series Crown I-Tech HD V5 presets are designed to provide optimum system performance for VRX900 Series full range loudspeakers in either Passive or Bi-Amp (2W) mode and accurate system summation with VRX900 Series subwoofer models. VRX V5 presets utilize BSS Audio Omnidrive HD™ linear phase Finite Impulse Response (FIR) processing including FIR linear phase crossovers and FIR EQ contour processing. Lower latency FIR processing is used for VRX915M Monitor and Nearfield presets in order to minimize latency for stage monitoring applications.

2-WAY (2W) BI-AMP PRESETS

I-Tech HD: VRX900 2W V5 R1.I-Tech HD Series.Device

I-Tech 4x3500HD: VRX900 2W V5 R1.I-Tech 4x3500HD.Device

Short Throw (ST) presets provide nominally-flat low and high frequency response under freefield conditions and are suitable for short throw applications (< 20 feet) such as: distributed front fill, stereo infill, under-balcony use, small format stacked, tripod-mounted or pole-mounted Front-of-House (FOH) and sidefill systems.

1x, 2x, 3x 2W ST presets include specific equalization to compensate for low frequency coupling of one (1x), two (2x) or three (3x) VRX928LA or VRX932LA-1 enclosures, providing nominal flat frequency response under freefield conditions and matched sensitivity.

Long Throw (LT) presets include additional LF shelving and enhanced HF shelving equalization to offset air absorption over typical throw distances for medium-throw applications.

1x, 2x, 3x 2W LT presets include specific equalization to compensate for low frequency coupling of one (1x), two (2x) or three (3x) VRX928LA or VRX932LA-1 enclosures, providing consistent Long Throw (LT) performance under freefield conditions with matched sensitivity.

Fullrange ST or LT presets allow VRX928 or VRX932LA-1 enclosures to be used without additional subwoofers for limited bandwidth applications with modest sound pressure level expectations (although VRX enclosures are capable of producing deceptively high SPL for their compact size).

1x, 2x, 3x 2W LT 80 presets feature 80 Hz high pass filtering with optimized low frequency shelving equalization and time alignment for sub/sat operation with VRX915S or VRX918S subwoofers where VRX928 or VRX932LA-1 enclosures are mounted on subwoofers using JBL SS5-BK or JBL SS4-BK extension rod accessories. For sub/sat configurations, a 10 dB sub/low frequency response contour is obtained under half-space loading conditions. Additional time alignment may be required if the physical delay is different, for example, suspended VRX928 or VRX932LA-1 enclosures used in conjunction with ground stacked subwoofers.



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PASSIVE PRESETS

I-Tech HD: VRX900 Passive V5 R1.I-Tech HD Series.Device

I-Tech 4x3500HD: VRX900 Passive V5 R1.I-Tech 4x3500HD.Device

Passive presets feature the same overall organization as described above (1x, 2x, 3x presets with ST, LT, LT 80 options) and have compatible tonal balance in comparison with 2-Way (2W) Bi-Amp V5 presets reduced length FIR processing is used to reduce overall system latency. Mixed presets are also available with VRX928LA passive or VRX932LA-1 passive on Channel 1 and VRX915S or VRX918S subwoofers on Channel 2.

NOTE: VRX V5 presets were developed with the Array Configuration Selector – HF Output Level in the Mid Throw position. Additional adjustments can be made as necessary to further optimize performance. Please refer to the VRX900 Series Application Guide for further details.



Nominal V5 Switch Settings (Mid Throw)

VRX915M PRESETS

I-Tech HD: VRX915M V5 R1.I-Tech HD Series.Device

I-Tech 4x3500HD: VRX915M V5 R1.I-Tech 4x3500HD.Device

ST, LT presets provide Short Throw and Long Throw performance as described above for applications where VRX915M is used as a fill enclosure without subwoofers. For use with VRX915S or VRX918S subwoofers, 2W LT 80 and Passive LT 80 presets are available.

MONITOR presets are intended for stage monitoring applications where half-space loading conditions are taken into account and nominal flat response is obtained. Monitor presets are also available with 80 Hz high pass filter processing for use with subwoofers.

NEARFIELD (NF) presets have reduced latency FIR processing for use in nearfield applications and can be used as an alternative to MONITOR presets. Preset options include:

- VRX915M 2W NF 80 (2-way operation with 80 Hz HPF)
- VRX915M Passive NF 80 (passive operation with 80 Hz HPF)

Disclaimer: VRX900 SERIES limiter settings are intended to provide a starting point for optimum system performance while ensuring reliable system protection. The end user is, however, ultimately responsible for system operation in the field and standard warranty conditions apply in the event of component damage.

For further details, see the VRX Application and User Guides available on these links:

<http://www.jblpro.com/BackOffice/ProductAttachments/VRX.AppGuide.pdf>

http://www.jblpro.com/BackOffice/ProductAttachments/VRXpassive_UG_081808.pdf



PROGRAMMING GUIDELINES

Before downloading VRX900 device files, check for the latest version of HiQnet System Architect Software on <http://hignet.harmanpro.com/downloads.php>

After downloading and installing System Architect software, JBL VRX900 V5 device files are located in the following directory:

\\My Documents\Harman Pro\JBL Device Files and Presets – XX Y.YY \JBL Portable PA\VRX900 Crown I-Tech HD V5 R1 (or VRX900 Crown I-Tech 4x3500HD V5 R1)

where:

XX = SA or AA (System Architect or Audio Architect)

Y.YY = software revision

INSTALLING V5 DSP INTO I-TECH HD DEVICES

To load V5 presets into your I-Tech HD amplifier, it is possible to copy the device file onto a USB key and manually load the entire device file or individual presets from the front panel of the unit. Please see your Crown I-Tech HD manual for complete details.

Presets can also be downloaded using System Architect software by establishing network connectivity then performing the following steps:

- 1) Double-click the I-Tech HD power amplifier to be programmed
- 2) On the top menu bar, select: File / Open / Device File
- 3) Navigate to the 'VRX900 Crown I-Tech HD V5 R1' device file folder
- 4) Select the device file suitable for your application:

I-Tech HD:

VRX900 Passive V5 R1.I-Tech HD Series.Device
VRX900 2W V5 R1.I-Tech HD Series.Device
VRX915M V5 R1.I-Tech HD Series.Device

I-Tech 4x3500HD:

VRX900 Passive V5 R1.I-Tech 4x3500HD.Device
VRX900 2W V5 R1.I-Tech 4x3500HD.Device
VRX915M V5 R1.I-Tech 4x3500HD.Device

- 5) 'Name Change' panel opens: If you wish to update the amplifier name, select 'Replace'
- 6) 'Synchronize Device Settings' panel opens: Select 'Send Settings to Device' to load the device file into the amplifier

For more detailed information on loading/opening JBL VRX900 Series device files see System Architect Help for 'Open Device File'. The page is located in System Architect Help under System Architect Overview / Software Introduction / Devices.



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PRESET RECALL INSTRUCTIONS

Please refer to the appropriate 'JBL VRX900 Crown I-Tech HD V5 R1 PRESET SUMMARY.pdf' sheets to determine the correct preset to use for your configuration.

Using System Architect

- 1) Double-click the desired I-Tech HD amplifier
- 2) Select 'Recall' on the top of the amplifier panel
- 3) Select the desired preset for your application and press 'OK'

Manually via the front panel ITechHD:

- 1) Press 'Menu / Exit'
- 2) Press 'Next' two times to navigate to the 'Preset' menu
- 3) Use the rotary knob next to the display panel to scroll through the presets until the desired preset is highlighted
- 4) Press the rotary knob to select. A prompt 'Confirm Load (Press & Hold)' will appear. (Note: this will change to 'Change Cancelled' after approximately 3 seconds)
- 5) Press and hold the rotary knob for 1-2 seconds, until 'Loading Preset...' is displayed
- 6) 'Preset Loaded' message appears for several seconds, after which the current preset name will be displayed
- 7) Press 'Menu / Exit' to navigate back to the main menu

Manually via the front panel ITech4x3500HD:

- 1) Press 'Menu / Exit'
- 2) Highlight '1. Presets' by either using rotary knob to the left of the screen or the arrows on the screen
- 3) To select, either press the rotary knob or touch '1. Presets' on the screen
- 4) Touch 'Recall' on the screen
- 5) Scroll through the presets until the desired preset is highlighted in the middle of the screen by either turning the rotary knob, pressing 'Prev' and 'Next' buttons to the right of the screen or touching and dragging the presets on the screen
- 6) To select, either press the rotary knob or touch the desired preset on the screen
- 7) A prompt will display: 'Do you want to recall Preset <Number> : <Preset Name>?'. To select, press either the rotary knob, the 'Menu / Exit' button or the green checkbox symbol to the bottom left of the screen
- 8) Once the preset is loaded, the active preset name will be displayed
- 9) Press 'Menu / Exit' twice to navigate back to the main display

For more detailed information on recalling and storing JBL VRX900 presets, see System Architect Help for 'Presets'. The page is located in System Architect Help under Devices / Crown Products / I-Tech HD 2-Channel / Presets.