

One of the most widely diffused line array system on the professional loudspeaker market is the JBL Vertec. For this loudspeaker family the most used and well known preset library is the so called "V4 Library". It is also well known that it has been recently updated from JBL Professional with the so called "V5 library" that have been appreciated as a major update for the Vertec family. The Powersoft K-DSP preset library reproduces on the K-DSP platform the V5 preset library both in terms of tonal balance and components pass-band introducing some additional improvements that come from some of the peculiar characteristics of the K-DSP platform and the K Series amplifiers.

Original component pass-band and gain have been respected while improving the overall transducers protection using steeper off-band linear phase roll off filters, and with the use of the double limiter that take care of controlling separately the thermal protection with the Power Limiter and the maximum excursion and the instant peak power with the peak limiter.

Overall phase response has been improved as well, while the Low Frequency Damping has been improved using active damping control both for Low Frequency and Subwoofer output.

So, while driven by Powersoft K Series amplifiers equipped with K-DSP and K-AESOP, the original tonal balance of the Vertec Family has been improved with the most relevant advantages of Powersoft amplifiers. This gives to the Vertec Family systems a renewed and fresh sound quality, better dynamic performances and improved reliability and protection.

Preset Name	Description	Recommended Amp Model
H+H – VT4889	High frequency output to drive VT4889 HF from both channels 1 & 2 of the amplifier.	K10
M+H – VT4889	Mid + High frequency output combination to drive VT4889 MF (Ch1) and HF (Ch2).	K10
M+M – VT4889	Mid frequency output to drive VT4889 MF from both channels 1 & 2 of the amplifier.	K10
L+L 60 – VT4889	Low frequency output to drive VT4889 LF from both channels 1 & 2 of the amplifier, with a low limit of 60Hz.	K10 / K20
L+L 80 – VT4889	Low frequency output to drive VT4889 LF from both channels 1 & 2 of the amplifier, with a low limit of 80Hz.	K10 / K20
L+L X – VT4889	Low frequency output to drive VT4889 LF from both channels 1 & 2 of the amplifier, with extended low limit down to 40Hz to use in extended mode without subwoofer.	K10 / K20