

Presets for K-DSP platform and M50Q HDSP+ETH

The following DSP preset have been created for the K-DSP platform and M Series 4-channel HDSP+ETH, for being used with some of the NEXO® loudspeaker systems. The tonal balance of the loudspeaker and the relative phase response have been carefully optimized in order to match as close as possible the original tonal balance and to preserve the native sound character of the systems. All presets are designed for long throw systems.

Also the phase response at the lowest frequency band has been optimized in order to perform the native interaction with the relative subwoofers.

The K-DSP and M HDSP dual limiter carefully takes under control the output power protecting the loudspeakers both from thermal over-powering and mechanical over-excursion.

The sound reproduction balance together with some of the most relevant advantages of Powersoft amplifiers give to these NEXO® system very good dynamic performances and improved reliability and protection.

M Series presets are optimized for the M50Q HDSP+ETH only. Their use on the M28Q HDSP+ETH is viable, but will result in lower power output.

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Preset Name	K Series DSP
PSI5R2_AC_WB_L+H	Wide Bandwidth version (WB) of the bi-amp preset that drive the Nexo PSI5R2 in Active Crossover mode (AC). (Ch1 Low + Ch2 High)
PSI5R2_AC_Xo_L+H	“X-Over” version (Xo) of the bi-amp preset that drive the Nexo PSI5R2 in Active Crossover mode (AC). The frequency response is limited down to the Crossover point with the subwoofer. (Ch1 Low + Ch2 High)
PSI5R2_PASSIVE_WB	A full range and Wide Bandwidth version (WB) and it drives the Nexo PSI5R2 in PASSIVE mode.
PSI5R2_PASSIVE_Xo	A full range and “X-Over” version (Xo) and it drives the Nexo PSI5R2 in PASSIVE mode. The frequency response is limited down to the Crossover point with the subwoofer.

Preset Name	M HDSP+ETH Series (4CH)
PSI5R2_AC_WB_vl_M50L	Wide Bandwidth version (WB) of the bi-amp preset that drive the Nexo PSI5R2 in Active Crossover mode (AC). (Ch1 Low + Ch2 High + Ch3 Low + Ch4 High).
PSI5R2_AC_Xo_vl_M50L	“X-Over” version (Xo) of the bi-amp preset that drive the Nexo PSI5R2 in Active Crossover mode (AC). The frequency response is limited down to the Crossover point with the subwoofer. (Ch1 Low + Ch2 High + Ch3 Low + Ch4 High).
PSI5R2_PASSIVE_WB_vl_M50L	A full range and Wide Bandwidth version (WB) and it drives the Nexo PSI5R2 in PASSIVE mode.
PSI5R2_PASSIVE_Xo_vl_M50L	A full range and “X-Over” version (Xo) and it drives the Nexo PSI5R2 in PASSIVE mode. The frequency response is limited down to the Crossover point with the subwoofer.