

doubleHELIX Subwoofer

Connections:

The XP-40480 processor utilizes a 40bit DSP to provide the crossover for the doubleHELIX Subwoofer to the main front speakers.

The crossover utilizes 24dB/octave Linkwitz/Riley networks and provides for time delay adjustment and room equalization via graphic and parametric EQ on the inputs and and parametric EQ on the outputs. Limiters are also available as required.

While the user may configure inputs and outputs as desired, the XP-4080 hosts a custom algorithm for the doubleHelix subwoofer. The input and output matrix is shown below.

Inputs:

- 1 Left
- 2 Right
- 3 LFE

Outputs

- 1 Left Sub (summed mixed of Left and LFE)
- 5 Right Sub (summed mixed of Right and LFE)

Device List

Device 1 (Connected)

Device 2 - (Offline)

Device 3 - (Offline)

Device 4 - (Offline)

Device Window Dev1 - Preset 1 doubleHELIX [XP Firmware v9.04]

	Mute	Gain	Delay	Filter	Compress
In 1: Left		0.00dB	0.000ms	Bypass	20.0dBu
In 2: Right		0.00dB	0.000ms	Bypass	20.0dBu
In 3: LFE		0.00dB	0.000ms	Bypass	20.0dBu
In 4		0.00dB	0.000ms	Bypass	20.0dBu

Mixer	Gain	Delay	Filter	Limit	Mute	
13	0.00dB	0.000ms	1 PEQ BP	15.0dBu		Out 1: L Sub
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 2
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 3
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 4
23	0.00dB	0.000ms	1 PEQ BP	15.0dBu		Out 5: R Sub
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 6
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 7
1	0.00dB	0.000ms	Bypass	20.0dBu		Out 8

Presets Device Meters

Connection OK

XConsole [Software v9.03] [Online] [Master]

Start Setup Tools Security Configuration Upgrade XPanel Help

Device List

Device 1 (Connected)

Device 2 - (Offline)

Device 3 - (Offline)

Device 4 - (Offline)

Controls Window Dev1 Out Ch1:L Sub

Name	Delay	Mixer	PEQ1	PEQ2	PEQ3	PEQ4	PEQ5	PEQ6	PEQ7	PEQ8	X-Lc/HPF	X-Hi/LPF	Limit
L Sub	0.000ms	1 0.00dB 2 Off	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	Linkwitz	Linkwitz	15.0dBu
Gain	0.00 m	3 0.00dB 4 Off	5.50dB	0.00dB	0.00dB	0.00dB	0.00dB	0.00dB	0.00dB	0.00dB	22Hz	100Hz	10.0ms
0.00dB	0.00 ft		32Hz	1000Hz	1000Hz	1000Hz	1000Hz	1000Hz	1000Hz	1000Hz	24dB/Oct	24dB/Oct	8X
+ Polarity	Mute		0.94Oct	0.33Oct	0.33Oct	0.33Oct	0.33Oct	0.33Oct	0.33Oct	0.33Oct			
			Q=1.507	Q=4.362	Q=4.362	Q=4.362	Q=4.362	Q=4.362	Q=4.362	Q=4.362			
			PEQ Reset	Bypass	Bypass	Bypass	Bypass	Bypass	Bypass	Bypass			

Change Channel Plot Options