



Processor Settings
Model LS8800

Crossover

	Frequency	Slope
LF w/o subwoofer - HPF	60Hz	24dB Oct. Linkwitz/Riley
LF w/subwoofer - HPF	80Hz	24dB Oct. Butterworth
LF - LPF	1225Hz	48dB Oct. Linkwitz/Riley
HF - HPF	1225Hz	24dB Oct. Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level	
LF	270Hz	.333	4.32	-7.5dB	Equalization Settings were developed in an anechoic environment
LF	210Hz	1	1.4	-3dB <i>(10 box or higher array coupling filter)</i>	
LF	460Hz	.333	4.32	-5dB	
LF	670Hz	.167	8.63	-7dB	
HF	1,630Hz	.25	5.76	-3dB	
HF	3,670Hz	.25	5.76	-3dB	
HF	14,200Hz	.5	2.87	+6dB	

Delay

	Time	Polarity	
LF	none	positive	Some DSP units will change the propagation delay for each output depending on how much processing is on that channel
HF	none	positive	

Limiting

	RMS Voltage	See Application Note "Setting System Limiters"
LF	64 Volts, 16 msec attack, 256 msec release, 100:1 ratio	(recommended predictive peak stop @ 6dB above this level)
HF	21 Volts, 30 msec attack, 480 msec release, 100:1 ratio	(recommended predictive peak stop @ 8dB above this level)

Gain

	Assumes amplifiers have equal voltage gain
LF	0
HF	-4dB

*** BW Disclaimer**

Different DSP processor manufactures are not consistent in their implementation of digital parametric EQs. **The SLS recommended filters will not be replicated by all DSP devices.** If the DSP device that is used continuously varies the Q value of the filter depending on the +/- dB level, the DSP will not match our settings. (Most of these devices do not allow filter Q to be shown at all.)