



Processor Settings
Model LS8800

Crossover

	Frequency	Slope
LF w/o subwoofer - HPF	50Hz	24dB Oct. (4th order) Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. (4th order) Butterworth
LF - LPF	1,225Hz	48dB Oct. (8th order) Linkwitz/Riley
HF - HPF	1,225Hz	24dB Oct. (4th order) Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	270Hz	.333	4.32	-7.5dB
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

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
HF	none	positive

Some DSP units will change the propagation delay for each output depending on how much processing is on that channel

Limiting

	RMS Voltage
LF	64 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 126 Volts or amp clipping)
HF	20 Volts, .5 msec attack, 8 msec release, 100:1 ratio (recommended predictive peak stop @ 50 Volts or amp clipping)

See Application Note "Setting System Limiters"

Gain

LF	0
HF	-4dB

Assumes amplifiers have equal voltage gain

*** 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.)