SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Processor Settings

Cinema System 300 Tri-Amp

Crossover

	Frequency	Slope
CSB215 - HPF	35Hz	24dB Oct. (4th order) Butterworth
CSB215 - LPF	250Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH MF - HPF	250Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH MF - LPF	1,700Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH HF - HPF	1,700Hz	24dB Oct. (4th order) Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	38Hz	.71	2	+5dB
MF	850Hz	.5	2.87	+3dB
HF	6,800Hz	.333	4.32	-3dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
MF	none	positive
HF	.323 msec	positive

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

Limiting

See Application Note "Setting System Limiters"

	RMS Voltage
LF	56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 80 Volts or amp clipping)
MF	60 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 84 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)

Gain

LF	0dB
MF	0dB
HF	-1dB

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.)

1650 W. Jackson Ozark, MO 65721 (417) 883-4549

SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Processor Settings

Cinema System 300 Bi-Amp

Crossover

	Frequency	Slope
CSB215 - HPF	35Hz	24dB Oct. (4th order) Butterworth
CSB215 - LPF	200Hz	24dB Oct. (4th order) Butterworth
CS300MH - HPF (with passive crossover option installed)	200Hz	24dB Oct. (4th order) Butterworth

Equalization

	Frequency	BW*	Q	Level
LF	38Hz	.71	2	+5dB
MF/HF	350Hz	.5	2.87	-4dB
	750Hz	.5	2.87	+3dB
	6,800Hz	.5	2.87	-2dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
MF/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	56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 80 Volts or amp clipping)
MF/HF	49 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 84 Volts or amp clipping)

See Application Note "Setting System Limiters"

Gain

LF	0dB
MF/HF	0dB

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.)

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