



11 Bands of 1/3-Octave Graphic Equalization 80 Hz - 800 Hz

2 Bands of Parametric Equalization, sweepable 1 kHz - 10 kHz Center Frequency

Room Control. The SSE 22 provides exact equalization controls for use in correcting room response problems—a critical step in recreating the home theater listening experience.

All rooms differ, and all rooms display acoustical problems of some sort. These anomalies distract from the enjoyment of the true home theater experience. Recording studios equalize their playback, and the same procedure at home yields an uncolored, transparent sound, as heard in the studio. The SSE 22 is also one of the quietest equalizers available at any price. After alignment, pressing the BYPASS switch reveals the before and after. The clarity is obvious.

Surround Equalization. The same combination of graphic and parametric equalization that is so successful in the THX 44 equalizer is duplicated in the SSE 22. Now all channels can deliver even room response, the goal in 5.1 digital systems.

In-Wall Speaker Equalization. In-wall speakers often carry a reputation for not sounding as good as free-standing ones. The SSE 22 can greatly improve the response of in-walls by removing the peaks causing that “boxy” sound. The SSE 22 can compensate for various wall construction techniques, allowing the different channels, free-standing or other in-walls, to match room response better for a more transparent sound.

Remote Speaker Equalization. Anywhere in the home where remote speakers are used, regardless of brand or type, equalization makes a difference between sounding good and sounding great.

Graphic and Parametric. The left and right channels feature an 11-band 1/3-octave graphic section for low frequency corrections, plus a 2-band parametric equalizer for high frequencies. The SSE 22 delivers ± 6 dB of correction where needed. The parametric bands can provide the broad frequency control occasionally needed in the top end, or notch out a problem frequency peak.

Setup and Alignment. The SSE 22 installs between the preamp/controller and the power amplifiers. Setting the rear channel controls to THX standards requires the temporary use of a $\frac{1}{3}$ octave analyzer with averaging. As for the front channels, consult the [“Home THX Audio System Room Equalization Manual”](#) available from the Lucasfilm THX Division or Rane.

Once set-up, all controls are hidden away behind the *included* security panel. A low-noise power supply and attachable 19" rack mounting ears are also provided.



Parameter	Specification	Limit	Units	Conditions/Comments
Graphic Equalizer Sections:				Left & Right
.....Bands	(11) 1/3-Octave ISO Spacing			From 80 Hz to 800 Hz
.....Type	Interpolating Constant-Q			Smooth Combining
.....Travel	20		mm	Positive Grounded Center Detent
.....Range	±6	0.25	dB	
Parametric Equalizer Sections:				Left & Right
.....Frequency Range	1 kHz-10 kHz			
.....Bandwidth Range	0.7-3.5 octaves (Q=2.0-0.33)			
.....Amplitude Range	±6	0.25	dB	
Inputs: Type	Active Unbalanced			RCA Phono Connectors
.....Impedance	10k	1%	ohms	
.....Maximum Level	34.5	1	dBr	11 Volts peak
Outputs: Type	Active Unbalanced			RCA Phono Connectors
.....Impedance	50	1%	ohms	
.....Maximum Level	+34.5 > = 2k ohm	1	dBr	11 Volts peak
Frequency Response	20 Hz-20 kHz	+0/- .2	dB	
Group Delay	Linear (Minimum Phase)	±5°		20-20 kHz
THD+Noise	0.001	.0005	%	1 kHz, +27.5 dBr (5 V peak)
Signal-to-Noise	120	1	dB	re 5 V pk; A-wtg; input short; flat
	-92.5	1	dBr	A-wtg; input short, flat
	-90.5	1	dBr	20 kHz BW; input short, flat
	-84.5	1	dBr	A-wtg; input short, full boost
	-87.5	1	dBr	A-wtg; input short, full cut
Dynamic Range	127	1	dB	Max out/noise floor (+34.5dBr/-92.5dBr)
Channel Separation	90	min	dB	20-20 kHz
Unit: Agency Listing				
.....120 VAC model	Class 2 Equipment			National Electrical Code
	UL 813 Exempt			Class 2
	CSA Exempt			Class 2
.....230 VAC model	VDE, SELV			Safety Extra Low Voltage
	CE-EMC			EMC directive 89/336/EEC
	CE-Safety Exempt			Article 1 of LV Directive 73/23/EEC
Power Supply: Agency Listing				Class 2 Equipment
.....120 VAC model	UL listed			File no. E88261
	CSA Certified			File no. LR58948
.....230 VAC model	CE-EMC			Meets EMC Directive 89/336/EEC
	CE-Safety			LV Directive 73/23/EEC
Power Supply: Input	18 VAC w/center tap	10%	Vrms	Model RS 1
.....Current	750	max	mA	RMS Current From Remote Supply
Unit: Size	1.75"H x 19"W x 8.5"D (2U)			(4.4 cm x 48.3 cm x 21.6 cm)
	17 3/8" wide w/o rack ears			(44.2 cm wide without rack ears)
.....Weight	5 lb			(2.3 kg)
Shipping: Size	4.25" x 20.3" x 13.75"			(11 cm x 52 cm x 35 cm)
.....Weight	8 lb			(3.6 kg)
Note: 0 dBr=150 mVrms=Home THX Equalizer Reference Level				