



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE THX 44. You'll find the answers to all your questions on the RANE THX 44 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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General Description

Room Control. The THX 22 and THX 44 provide 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. These equalizers are also one of the quietest available at any price. After alignment, pressing the BYPASS switch reveals the before and after. The clarity is obvious.

First in Home Cinema. Rane developed the first equalizer designed specifically for Home THX audio systems. Rane equalizers are found in many of the finest recording studios and film dubbing stages around the world. This same circuit design is available for home theater playback.

Features

- 11 Bands of 1/3-Octave Graphic Equalization 80 Hz to 800 Hz, per Channel
- 2 Bands of Parametric Equalization, adjustable 1 kHz to 10 kHz Centers, per Channel
- THX 44 features Left, Center and Right Channels and a 2-Band Parametric Subwoofer Channel
- THX 22 features Left and Right Channels; Usable for Surround Channels or Stereo Applications
- Security cover, rack ears, and low-noise UL/cUL/CE approved power supply included

Not just THX. Traditional surround sound systems also benefit from the THX 44 and THX 22. Though they meet THX certification requirements, these equalizers are ideal for any home theater application. Multiple channel equalization compensates for poor room acoustics and help to "imbricate" speakers. This is really important when using different center or surround speaker models than the left and right. These equalizers are applicable in plain stereo, Dolby Pro-Logic, THX, Dolby Digital, DTS, or any multichannel system. For 5.1 systems, use the THX 44 for the front channels and the THX 22 for the surround channels.

Main Channel. The THX 44 has three equalizer Channels for Left, Center, and Right. The THX 22 has two equalizer Channels, and may be used for the Left and Right Surrounds or as a dedicated stereo equalizer. Each section features an 11-band 1/3-octave graphic section for low to mid frequency corrections, plus a 2-band parametric equalizer for high frequencies.

Subwoofer Channel. The THX 44 also has a specially designed 2-band parametric channel to smooth out the extreme low end.

Stereo applications. In-wall speakers often carry a reputation for not sounding as good as box designs. Equalizers can greatly improve the response of in-walls by removing the peaks caused by various wall constructions, allowing the different channels to match room response better for a more transparent sound.

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

Setup and Alignment. The THX 44 and THX 22 install between the preamp/controller and the power amplifiers. Setting the controls to THX standards requires temporary use of a 1/2 octave analyzer with averaging. Consult the "Home THX Audio System Room Equalization Manual" available from the THX or Rane websites.

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.



Data Sheet-1



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Manual abstract:

7 -4 -6 80 100 125 160 200 250 315 400 500 630 800 -6 LEVEL BANDWIDTH 2.1 3.5 -4 -6 LEVEL -6 80 100 125 160 1k 3k FREQUENCY 0 -2 0.7 BANDWIDTH 2.1 3.5 10k +6 +4 +2 1k 3k FREQUENCY 0 10k +6 +4 +2 RIGHT CHANNEL +6 +4 +2 0 -2 0.7 -4 -6 200 250 315 400 500 630 800 LEVEL BANDWIDTH 2.1 3.5 -4 -6 LEVEL 1k 3k FREQUENCY 0 -2 0.7 BANDWIDTH 2.1 3.5 10k +6 LUC A S F ILM PWR R +4 +2 1k 3k FREQUENCY BYPASS 10k THX 22 80 100 125 160 200 250 315 400 500 630 800 +6 +4 +2 80 100 125 160 200 250 315 400 500 630 800 +6 +4 +2 80 100 125 160 200 250 315 400 500 630 800 LUC A S F ILM R THX 44 HOME CINEMA EQUALIZER POWER -2 -4 -6 -2 -4 -6 LEFT CHANNEL LEVEL FREQUENCY LEVEL FREQUENCY LEVEL FREQUENCY CENTER CHANNEL LEVEL FREQUENCY FREQUENCY RIGHT CHANNEL LEVEL FREQUENCY LEVEL FREQUENCY SUBWOOFER LEVEL FREQUENCY +4 +2 0 -2 -4 0.7 2.1 3.5 +4 +2 0 -2 -4 0.7 2.1 3.5 +4 +2 0 -2 -4 0.7 2.1 3.5 +4 +2 0 -2 -4 0.7 2.1 3.5 +4 +2 0 -2 -4 0.7 2.1 3.5 +4 +2 0 -2 -4 0.7 2.1 3.5 +6 +3 0 -3 -6 0.

5 1.5 2.5 +6 +3 0 -3 -6 0.5 1.5 2.5 1k 3k 10k 1k 3k 10k 1k 3k 10k 1k 3k 10k 1k 3k 10k 1k 3k 10k 1k 3k 10k 20 50 80 20 50 80 BYPASS BANDWIDTH BANDWIDTH BANDWIDTH BANDWIDTH BANDWIDTH BANDWIDTH BANDWIDTH General Description Room Control. The THX 22 and THX 44 provide 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 equalizers are also one of the quietest available at any price. @@The clarity is obvious.

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For 5.1 systems, use the THX 44 for the front channels and the THX 22 for the surround channels. Main Channels. The THX 44 has three equalizer Channels for Left, Center, and Right. The THX 22 has two equalizer Channels, and may be used for the Left and Right Surrounds or as a dedicated stereo equalizer. @@Subwoofer Channel. @@Stereo applications. @@@@Setup and Alignment. @@@@1 of LVD 73/23/EEC Class 2 equipment File no. E88261 File no.

@@@@LUCASFILM AND THX ARE REGISTERED TRADEMARKS OF LUCASFILM LTD. MADE IN U.S.A. @@@@as a Home THX System Room Equalizer. @@The Home THX equalizer shall be of interpolating constant-Q design to minimize interactions between adjacent bands. Each channel of the equalizer shall consist of an 11-band 1/3-octave graphic section with center frequencies located on ISO centers from 80-800 Hz, and a range of ±6 dB; additionally, a 2-band parametric section shall be provided with a frequency range of 1-10 kHz, and a bandwidth range of 0.73.5 octaves. THX 22: The equalizer shall consist of two independent channels, designed for Left and Right.

THX 44: The equalizer shall consist of four independent channels. Three channels shall be designed for Left, Center, and Right front channels in a home cinema system. A fourth channel shall be designated for subwoofer use, consisting of a 2-band parametric section with a frequency range of 20-80 Hz, a boost/cut range of ±6 dB, and a bandwidth range of 0.52.5 octaves.

All controls shall be 20 mm sliders with dust dams. Detented and positively grounded 0 dB points shall be provided for all level controls. Relays shall be used to control power on/off thumps, to provide an overall bypass function using a front panel mounted push-button switch, and to default to bypassed condition in the event of power loss. @@@@The security cover shall be supplied with the unit. @@The THX 44 shall include DB-25 input and output connections in addition to the RCA connectors.

The unit shall be exempt from agency safety requirements and powered from a UL listed, CSA certified remote power supply (120 VAC) or CE certified (230 VAC) via a rear panel input modular plug. The unit shall be constructed entirely from cold-rolled steel. The unit shall be a Rane Corporation THX 22 or THX 44 Home Cinema Equalizer. POWER THX 22 P U R I T Y B Y D E S I G N HOME CINEMA EQUALIZER Both models include Security Cover & Rack-mount Ears (each attach separately) POWER THX 44 P U R I T Y B Y D E S I G N HOME CINEMA EQUALIZ.



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