



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.

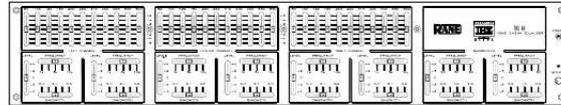
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Security Cover Installed



Security Cover Removed



QUICK START

Great video is easy; great audio is hard, but a THX 44 makes it a lot easier. Read at least this boxed section and you'll be on your way toward great audio.

Hook-up is intuitive: In from the controller, Out to the amplifiers. Just follow the silkscreened legends on the rear of the unit. Use either the RCA jacks or the DB-25 connectors.

Familiarity with other graphic and parametric equalizers makes the THX 44 just as familiar. If this is your first equalizer, be gentle; it can overwhelm you.

Use the **BYPASS** switch as an aid in comparing equalized results with unequalized results. Pushbutton *in* and locked (LED *on*) is the bypassed (unequalized) mode; pushbutton *out* and unlocked (LED *off*) is the normal equalized mode. See the included "Home THX Audio System Room Equalization Manual" for the alignment procedures required. See the Operating Instructions on the back page for more information.

Install the supplied security cover after completing all settings. Be sure the **POWER** light fits snugly into the hole in the security cover.

Never connect anything except an approved Rane power supply to the red modular jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply *exactly* like the one originally packed with your unit. See the full explanation of the power supply requirements on page Manual-3.

WEAR PARTS: This product contains no wear parts.

Manual-1



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Manual abstract:

Read at least this boxed section and you'll be on your way toward great audio. Hook-up is intuitive: In from the controller, Out to the amplifiers. Just follow the silkscreened legends on the rear of the unit. Use either the RCA jacks or the DB-25 connectors. Familiarity with other graphic and parametric equalizers makes the THX 44 just as familiar. If this is your first equalizer, be gentle; it can overwhelm you. Use the BYPASS switch as an aid in comparing equalized results with unequalized results. Pushbutton in and locked (LED on) is the bypassed (unequalized) mode; pushbutton out and unlocked (LED off) is the normal equalized mode. See the included "Home THX Audio System Room Equalization Manual" for the alignment procedures required. See the Operating Instructions on the back page for more information.

Install the supplied security cover after completing all settings. Be sure the POWER light fits snugly into the hole in the security cover. Never connect anything except an approved Rane power supply to the red modular jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply exactly like the one originally packed with your unit. @@@@Their range is ± 6 dB.

@@@@Same grounded center-detent design as the Graphic Equalizer sections. The range is ± 4 dB for the Left, Right, and Center Channels, and ± 6 dB for the Subwoofer Channel. Parametric equalizer BANDWIDTH control sets the Bandwidth for this filter section. The range is 0.7-3.

5 octaves for the Left, Right, and Center Channels, and 0.5-2.5 octaves for the Subwoofer Channel. Parametric equalizer FREQUENCY control determines the center Frequency for this filter section. The range is 1k-10 kHz for the Left, Right, and Center Channels, and 20-80 Hz for the Subwoofer Channel.

POWER indicator lights any time power is supplied from the Rane model RS 1 power supply (included). To avoid confusion a distinction is made here between electrical and political. Overall BYPASS switch & indicator. This pushbutton switch activates the "hard-wire" BYPASS function. When engaged (red BYPASS LED on), the INPUT connectors directly tie to the OUTPUT connectors (hard-wired).

Engaging this switch converts the THX 44 into a relatively expensive patch cord, albeit one with pretty lights. During the initial timed power-up sequence, or power loss of any sort, the THX 44 automatically goes into BYPASS mode. Manual-2 REAR PANEL DESCRIPTION Remote POWER supply input. The unit is supplied from the factory with a Model RS 1 Remote Power Supply suitable for connection to this input jack. The power requirements of the unit call for an 18 volt AC center-tapped transformer only. This is not a telephone jack. Never use a power supply other than the one supplied, or a replacement approved by Rane Corporation. Using any other type of supply may damage the unit and void the warranty. Chassis ground. A #6-32 screw is used for chassis grounding purposes.

See CHASSIS GROUNDING below. RCA OUTPUT connectors. Active unbalanced design. Use high-grade RCA cables or the DB-25 to connect to the power amplifier inputs. You may use both simultaneously when required to feed different amplifiers.

RCA INPUT connectors. Active unbalanced design. Use either high-grade RCA cables or the DB-25 for interconnect to the controller outputs. @@DB-25 connectors. Wired per the Home THX Interconnection Standard.

Refer to the silkscreened legend on the rear for pin identification. Use only THX approved DB-25 Interconnection cables. @@@@Here are some things to try: 1. @@2. @@3. @@@@4. @@@@@@@@@@@@@@@@@@Use only one. They do not sum. Attempts to use both results in severe distortion. @@@@@@@@@@No additional gain settings are necessary.

Use the THX 44 only for specific equalization. @@@@@@@@@@@@@@Otherwise, the Rane THX 22 controls duplicate the THX 44's for the surround speakers, making it an ideal match for the THX 44 in 5.1 systems. SETTING CURVES USING THE THX 44 Our unique interpolating constant-Q circuitry makes setting curves easy. For the graphic sections, what you see is what you get more so than on any other equalizer. Referring to your room result curves, begin by positioning the sliders to create the inverse curve shown by the instrumentation. Remember, most applications require only a few dB of boost or cut. If more is required, use architectural and mechanical means: add, remove, or relocate acoustically sensitive items (speakers, drapes, carpets, mirrors, etc.) as required.

USING THE BYPASS SWITCH The THX 44 provides you with an overall BYPASS switch & indicator as a useful tool for optimizing settings.

Use the BYPASS switch for making quick "A-B" comparisons, i.e., comparing "A", equalized (BYPASS out, LED off), versus "B", unequalized (BYPASS in, LED on). To do this freely, without danger of system damage, you must pay attention to how much equalization is being used. Failure to do so can produce alarming results.

Since the THX 44 always operates at unity gain in the BYPASS mode, comparison when a lot of boosting, or cutting has been done, can result in startling level differences between the two. Therefore you want to keep the system level down until you first use the BYPASS switch. Be careful the first time you use it. BALANCED AMPLIFIERS Two situations can cause hum or grounding problems: A. When the THX 44 is installed at a distance greater than 10 feet from the controller or amplifiers (which is not recommended for unbalanced wiring).

B. When an amplifier with a balanced input is connected to the unbalanced Output of the THX 44. For solutions, see RaneNote 110, "Sound System Interconnection", downloadable from Rane's web site. The best option is the Rane BB 44x, a 4-way balancing/isolating-level matching device with RCA and XLR connections. Again, see our web site. OPERATING INSTRUCTIONS HOME THX AUDIO SYSTEM ALIGNMENT Follow the alignment procedure specified by Lucasfilm ® Ltd. @@Use only the recommended test equipment. @@It cannot be done by ear. @@@@The THX 44 should be aligned for a flat average response from each Channel. DOLBY PRO-LOGIC AUDIO SYSTEM ALIGNMENT ® Though the THX 44 meets Lucasfilm's THX specifications, it is also suitable for Dolby Pro-Logic systems so that Left, Center, and Right Channels to have matching responses.

Though the THX 44 can help non-THX speakers, ± 6 dB may not be enough boost/cut to compensate between different speaker designs. Left/Right and Center speakers should first ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Manual-4 103093 .



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