

Instruction manual

HOMEE
LIFE SOUND

THS 6000
Multi-Channel Receiver
4 x 100W RMS



The installation of this product must be made by a qualified professional.



www.taramps.com.br

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Introduction

Congratulations on purchasing a Taramps product.

Developed in a modern laboratory, with highest technology and highly qualified professionals.

This manual explains all the resources, operations and guidelines for resolving questions that may arise in your installation. Take a time to read it carefully and ensure the proper installation and use of all the benefits that this product can offer.

In case of doubt even after reading this manual, please contact our technical support at the number **+55 18 3266 4050** or our website **www.taramps.com.br/en**.

Presentation

The TARAMPS THS 6000 is a Multi Channel Receiver developed with high technology to integrate different environments. Compact and powerful it can be used in several applications providing quality sound.

Application examples:

- Environment sound for stores, shops and clinics. It also allows, through the microphone input, that warnings are transmitted via the sound system.
- In your leisure area, gourmet space, country house, etc. Including various audio input options, such as Bluetooth, AUX and USB, it allows the audio sources to be easily changed giving the user flexibility in choosing the preferred audio.

The equipment is automatic bivolt and can be connected to any power plug between 90 and 240V. It has a switching power supply that is more efficient in the consumption of electricity. If you are not going to use the product for a long time, we recommend that you disconnect from the power plug.

Important recommendations

- The THS 6000 must be installed in a firm and ventilated place, away from heat and humidity places. Avoid locations with direct sunlight.
- Do not block the ventilation holes on the top and rear.
- Avoid falls and impacts.
- Carefully observe the polarity and impedance of the loudspeakers.
- Use cables according to the distance between the THS 6000 and the loudspeakers.

The table below shows the recommended gauges according to the distances:

Until 20m	cables with a gauge larger than or equal to	1 mm²
Until 40m	cables with a gauge larger than or equal to	1,5 mm²
Until 70m	cables with a gauge larger than or equal to	2,5 mm²
Until 100m	cables with a gauge larger than or equal to	4 mm²


- In case of unwanted noise make sure that the cables and connections are in good condition. Leave the volume to a minimum of unused channels.

Audio source

The TARAMPS THS 6000 has the following audio inputs:

1. USB: Flash drive input *
2. MICRO SD CARD *
3. AUX (front): P2 standard auxiliary input.
4. AUX1 and AUX2: RCA standard auxiliary inputs.
5. BLUETOOTH
6. FM radio
7. Microphone input (standard P10)
8. Optical Input

* The connected device must contain music in MP3 format to be identified by the equipment. Maximum supported size: 64GB.

 We advise you to always have a good antivirus, so there are no problems with the Flash Drive or micro SD card when connecting to the product. Infected devices may cause undesirable effects to the THS 6000, such as: Slow music reading and general failures. Do not use the USB input to connect to the computer or to recharge other devices that have batteries.

Package content

- 01 Multi Channel Receiver THS 6000



- 01 Remote Control

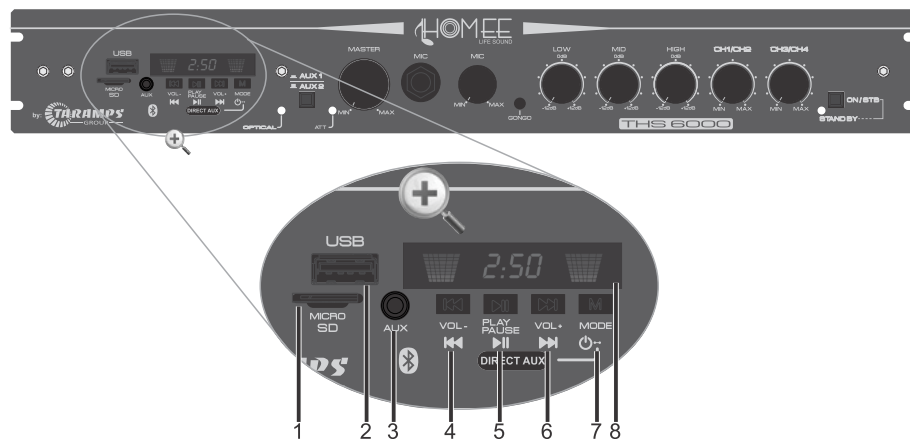


- 01 Optical Cable



Knowing your equipment

Front Panel



1 - MICRO SD: Micro SD memory card input.

(The card must be positioned as the image shows, with the terminals facing up)

2 - USB: Input to Flash Drive.

3 - Aux. (Connector P2): Receives audio signal from the P2 output of your phone, tablet, MP3, computer, among others. Use good quality cable to avoid unwanted noise.

4 - Short Touch (Track-): Rewind the music tracks in the USB/SD/BLUETOOTH.

Long Touch (Volume -): Reduce the volume in all sources options.

FM: Short Touch: Reduce 0.1MHz of the frequency. **Long:** Automatic search to previous stations.

5 - Short Touch (Play / Pause): Pause or start the music on USB / SD / BLUETOOTH.

Short Touch: Mute for AUXILIARY option

FM: Short Touch: Advances next saved memory position of FM stations. **Long:** Searches for FM stations and saves them in memory.

6 - Short Touch (Track+): Forward the music tracks in the USB/SD/BLUETOOTH.

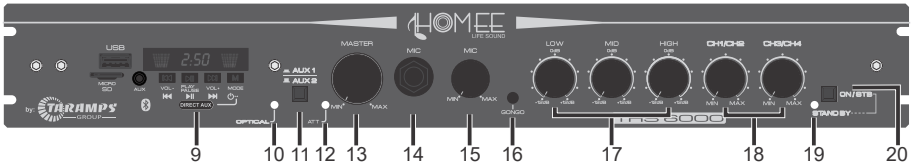
Long Touch:(Volume +): Increase the volume in all sources options

FM: Short Touch: Increase 0.1MHz of the frequency. **Long:** Automatic search to next stations.

7 - Short Touch (MODE): Changes the source options, such as: USB / SD / AUXILIAR / BLUETOOTH / FM.

Long Touch - To turn off the device. (The device will stay in stand by mode)

8 - LED Display - Remote control IR sensor: For better communication between the remote control and the device, point the control at this point on the display.



9 - DIRECT AUX: indicates that the signal from the selected AUX input (AUX1, AUX2 or OPTICA) will be sent directly to the equalization/amplification stages without going through signal digitization processes, allowing superior audio quality (in this case the remote control will not work).

10 - OPTICAL: LED indicating the presence of an optical signal. Indicates that the current auxiliary input is optical.

11 - AUX1 / OPTICAL or AUX 2 KEY: Button pressed: Selects AUX1 and Optical inputs.
 Button not pressed: Selects the AUX 2 input. (Inputs on the rear panel).

12 - ATT: LED audio attenuation indicator. When identifying an audio signal from the microphone input or emitting the ding-dong signal (GONGO), the equipment attenuates the output signal, allowing higher evidence of the microphone. After 2 seconds without using the microphone, it returns to the state without attenuation.
 It is possible to enable or disable this function. With the device in standby mode, press and hold the gong key for 5 seconds. The ATT LED will flash 3x with the function enabled or 1x with the function disabled.

13 - MASTER: Controls the global volume level and must be used to adjust the output power desirable.

14 - MIC: P10 (1/4") input for microphone.
 Microphone Recommendations:
 - The microphone signal has a low amplitude, so improper use can cause unwanted noise.
 - Use quality cables and connectors.
 - Do not wrap the microphone cables.
 - Do not pass the microphone in front of the loudspeakers. This causes feedback.

15 - MIC: Adjusting the volume of the microphone and the GONGO (ding-dong). If you do not use the microphone and GONGO, it is recommended to keep the volume to a minimum.

16 - GONGO: GONGO activation key.
 The product has 3 GONGO options. To select another option with the device on, press and hold the "GONGO" key. The 3 gong patterns will be emitted in sequence (do not release the key). To select an option, release the "GONGO" key after hearing the desired option.

17 - EQUALIZATION: 3 band equalizer control.
 LOW: Bass frequencies
 MID: Middle frequencies
 HIGH: High frequencies.

18 - CH1/CH2 - CH3/CH4: Adjust each channel level (1,2,3 and 4).

19 - LED STANDBY: On, indicates that the product is plugged into the outlet in stand by mode.

20 - TECLA ON/STB: Turn ON the receiver or stay in standby mode.

Function configuration mode

With the device in Standby, press and hold the **ON/STB key (20)** for more than 5 seconds. The **STANDBY LED (19)** will flash indicating that the device is in configuration mode.

The blue LEDs on the panel will indicate the current status, being:

-**DIRECT AUX(9)** lit, indicates that the DIRECT AUX function is active. To change the status of this function, press the POWER key repeatedly until the LED goes out.

-**OPTICAL(10)** lit, indicates that the AUTO TURN ON function is active. To change the status of this function, press the **ON/STB button (20)** repeatedly until the LED goes out.

-**ATT(12)** lit, indicates that the attenuation function is active. To change the status of this function, press the **GONGO key (14)**.

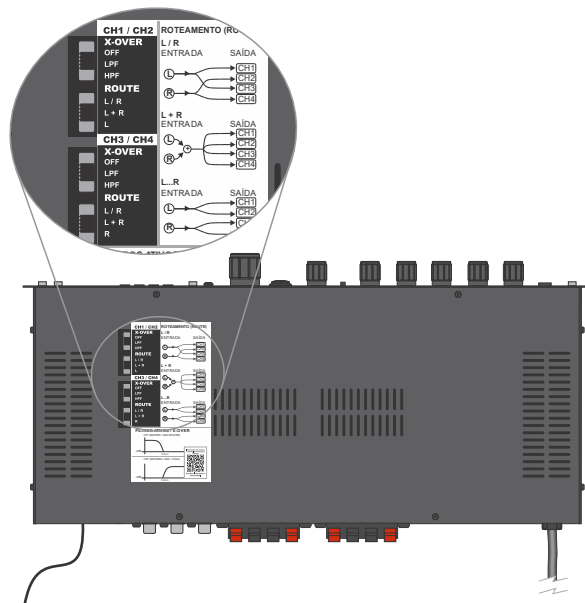
Note: The **ON/STB(20)** key configures the DIRECT AUX and AUTO TURN ON functions simultaneously, with 4 different combinations being possible: Both activated, both deactivated, just DIRECT AUX or just AUTOTURN ON.

To exit programming, press and hold the **ON/STB key (20)** for more than 5 seconds.

Output configurations

The CH1, CH2, CH3 and CH4 outputs can be configured for various use situations, such as a 2.1 system, often used in TV soundbars, where we have two stereo outputs and a bass output. In this case, the subwoofer box must be passive. Another option is a **STEREO** system with two high-power channels. Or even with 4 independent outputs.

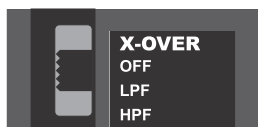
For configurations, the THS 6000 has three resources: two X-OVER keys to activate frequency filter depending on the type of box used, two ROUTE keys to direct the input signal to the outputs and **BRIDGED** output connections. The X-OVER and ROUTE keys are located on the bottom (image below), built into the device to prevent accidental activation. Each key acts on two outputs simultaneously, one on CH1/CH2 and the other on CH3/CH4. The BRIDGED connections are on the back, on the SPEAKER OUT output connectors, simply connecting the speaker to the corresponding terminals.



X-OVER key (frequency filters)

These keys activate the frequency filters of the respective channels. The HPF and LPF filters complement each other and are ideal for combined use, i.e. in separate bass systems with a passive woofer or subwoofer box.

The HPF filter used independently can help increase performance, durability and even improve distortion in small speakers that are not capable of reproducing bass efficiently. The settings are:



OFF: Frequency filters turned off, with no effect.

LPF: Low pass mode frequency filters. These filters only allow low sounds to pass through. Use these filters if you connect a passive woofer or subwoofer speaker.

HPF: High pass mode frequency filters. These filters only allow bass-mids, mids and highs to pass through. Use these filters if you are connecting scone-type speakers or small speakers that are not capable of reproducing sub-bass.

ROUTE key (routing)

These keys select which L or R channel (left or right) of the source being played will be routed to the CH1, CH2, CH3 and CH4 outputs. The playback source can be USB, FM or Bluetooth, AUX1, AUX2 or Optical and must be chosen in other controls. The options are:

ROUTE CH1/CH2:



R/L: Directs the L channel to the CH1 output and the R channel to the CH2 output. This configuration is recommended for environments in which the speakers are in suitable positions for stereo reproduction.

R+L: Directs the mixing of the R and L channels (mixer or mono-mix) to the CH1 and CH2 outputs. This configuration is recommended for

use with a subwoofer/woofer or in the case of sound systems where only one channel will be used per room (multi-room systems).

L: Directs only the L channel to the CH1 and CH2 outputs. This case is only allowed when the THS 6000 will operate on 2 outputs (200W + 200W). To do this, the ROUTE key on CH3/CH4 must be in the "R" position and the speakers must be connected to the BRIDGED connections. In this case, the BRIDGED output of CH1/CH2 will reproduce the L channel and the BRIDGED output of CH3/CH4 will reproduce the R channel.

ROUTE CH3/CH4:



R/L: Directs the L channel to the CH3 output and the R channel to the CH4 output. This configuration is recommended for environments in which the speakers are in suitable positions for stereo reproduction.

R+L: Directs the mixing of the R and L channels (mixer or mono-mix) to the CH3 and CH4 outputs. This configuration is recommended for

use with a subwoofer/woofer or in the case of sound systems where only one channel will be used per room (multi-room systems).

R: Directs only the R channel to the CH3 and CH4 outputs. This case is only allowed when the THS 6000 will operate on just 2 outputs (200W + 200W). To do this, the ROUTE key on CH1/CH2 must be in the "L" position and the speakers must be connected to the BRIDGED connections. In this case, the BRIDGED output of CH1/CH2 will reproduce the L channel and the BRIDGED output of CH3/CH4 will reproduce the R channel.

Note about the BRIDGED output: The BRIDGED outputs mentioned work to combine two outputs into one and work independently of the key settings, so it is possible to obtain a FULL-RANGE or filtered signal at the BRIDGED output, depending on the position of the X-OVER key.

See examples of connections/configurations on page 11.

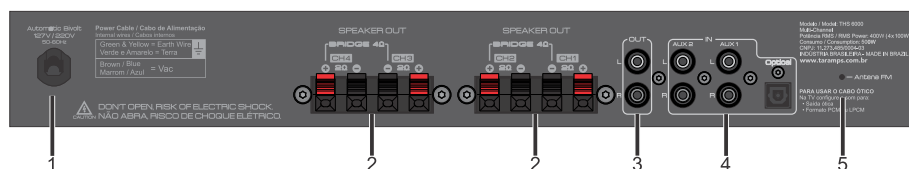
Protection System

The THS 6000 has a protection system against outputs overload and outputs short circuit. When the protections are activated, the ATT LED on the front panel turns on temporarily and the audio output is interrupted. About 2 seconds, or the audio is restored. If the protection system or system meets frequently, review the settings and installation of your system.



Knowing your equipment

Rear Panel



1 - POWER CABLE: Plugged it into a powered outlet. . This product operates from 127V AC to 220V AC.

2 - SPEAKER OUT: Power output for connecting speakers. In this case, there are two connection possibilities: the normal one with a box at each output and the BRIDGED connection that joins two channels into one, for greater power. Follow the indicated polarity and the recommended minimum impedance of 2 Ohms for normal connection and 4 Ohms for Bridged connection.

3 - OUT: The LINE OUT output allows to send the audio signal (not amplified) to other equipment, such as another THS 6000, an amplifier or active subwoofer. The LINE OUT sound is affected by the 3 Band Equalizer and Volume controls. (LOW, MID, HIGH and VOLUME controllers).

4 - INPUT AUX 1, OPTICAL e AUX 2: Audio inputs.

To use these inputs, the device must be in the AUX or DIRECT AUX function. Use the AUX1/AUX2 front button to select the desired input. OPTICAL input is automatically selected when an optical signal is present, regardless of the position of the front panel AUX1/AUX2 key. Using the OPTICA input, you have the AUTO TURN ON/OFF system, which automatically turns the device on/off when there is an optical signal at the input. This function can be disabled according to the configuration instructions on page 05.




IMPORTANT: for the optical signal to work correctly, the TV or signal source must be configured as standard PCM output. Strong noises indicate that the received signal is not PCM standard. In this case, check the TV menu to see if the digital audio output format is PCM. (Consult your TV manufacturer's manual).


5 - FM ANTENNA: Indoor wire antenna for FM radio reception. Position the wire antenna in order to achieve the best FM reception.


Remote Control Function


O THS 6000 has a compact remote control, so you can remotely control the device with practicality.




-  **ON / OFF:** Press the key to turn off the device.
-  **MODE:** Change the audio source (USB, BLUETOOTH, SD, AUXILIARY, FM).
-  **MUTE**

-  **PLAY / PAUSE:** Pause or start the music to USB / SD / BLUETOOTH.
FM: Short Press: Advances next saved memory location of FM stations.
Long Press: Searches for FM stations and saves them in memory.

-  **TRACK -** Previous track (short press)
FOLDER - Previous folder (long press)
FM: Short Press: Previous 0.1MHz of the frequency.
Long Press: Automatic search to the previous station.


-  **TRACK +** Next track (short press)
FOLDER + Next folder (long press)
FM: Short Press: Next 0.1MHz of the frequency.
Long Press: Automatic search to the next station.

-  **EQUALIZATION:** Pop / Rock / Jazz / Country / Normal.
 Do not work in auxiliary mode.
FM: Short Press Return to the saved memory position of FM stations.

-  **VOL-:** Volume down

-  **VOL+:** Volume up

-  **REPEAT:** Repeat / play MP3 options

-  **U/SD:** Change mode between USB / SD Card
FM: Searches for FM stations and saves them in memory.

NUMERIC KEYBOARD: FM: Long Press saves FM stations.

NOTE: The REC and STOP keys have no function.

Bluetooth

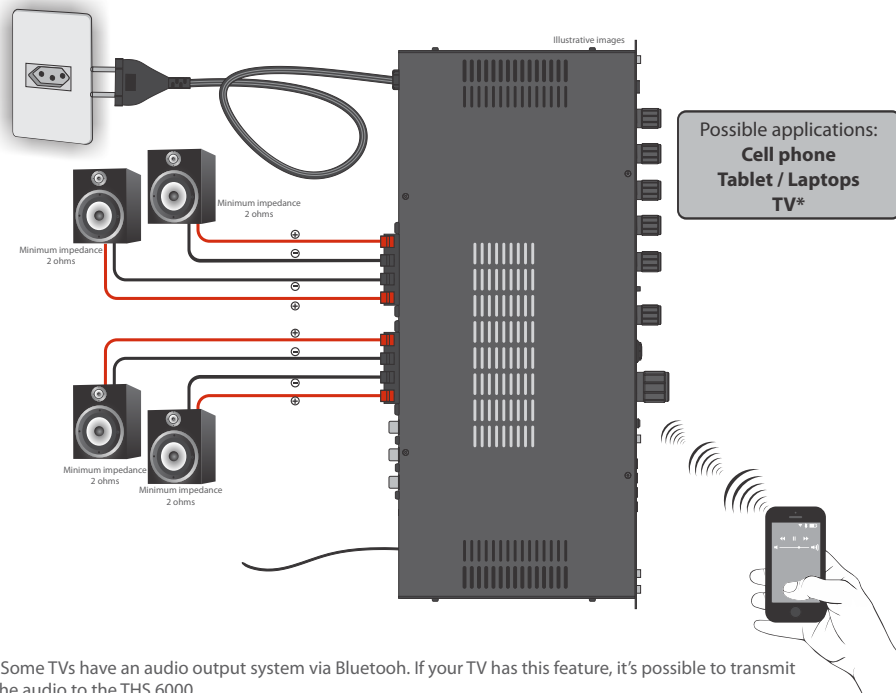
When selecting the Bluetooth function (identified with "bt" on the display), the THS 6000 waits for a Bluetooth connection. Search for the device called "TARAMPS THS 6000" using your phone, tablet, PC or other and match it.

-To connect to a new device, disconnect the current one and make the new Bluetooth pairing. Bluetooth specification: class II with a 10m maximum range and may vary according to the environment (such as walls) and the connected device.



For other devices the connection system is similar (consult manufacturer's manual)

Bluetooth examples of use



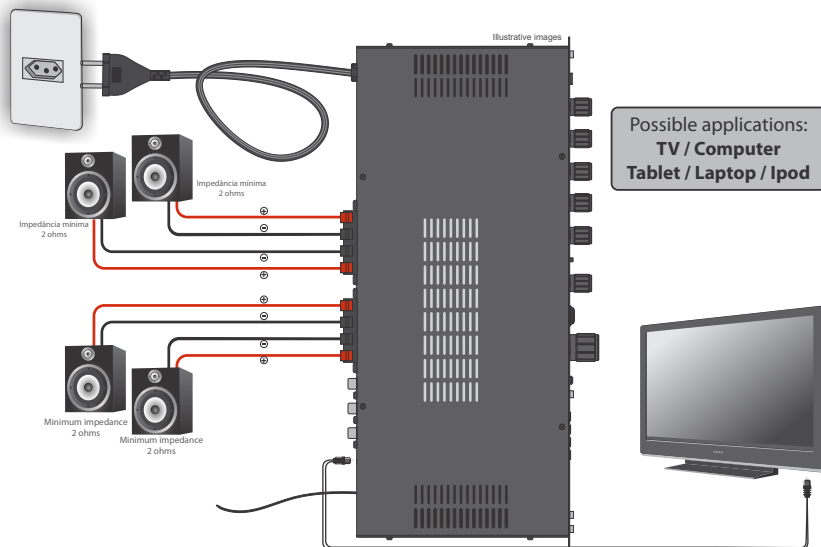
*Some TVs have an audio output system via Bluetooth. If your TV has this feature, it's possible to transmit the audio to the THS 6000. Consult your TV manufacturer's manual.

Example of using OPTIC input

Select AUX mode using the "MODE" key. Set the TV to standard PCM output.

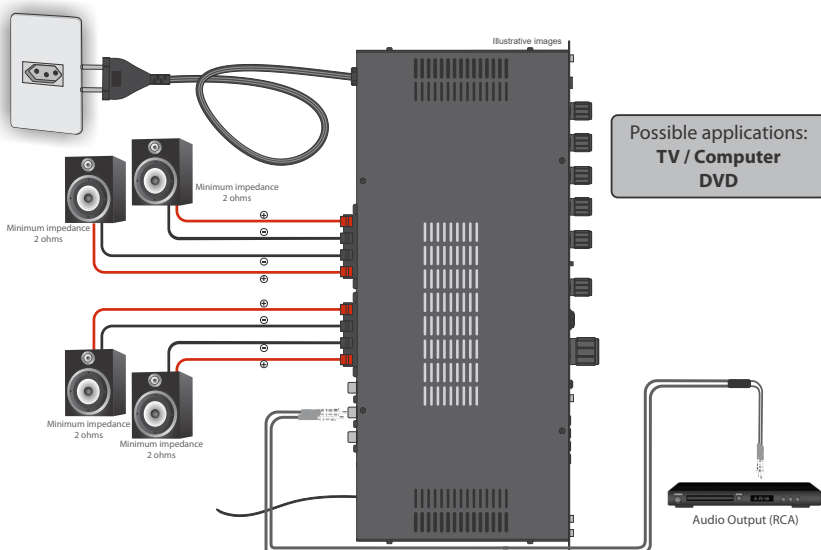
AUTO TURN ON: when the TV sends an optical signal, the device will automatically turn on and the OPTICAL LED will light up on the front panel. When there is no optical signal, the device turns off after 10 seconds.

The AUTO TURN ON function can be deactivated according to the configuration instructions on page.05.



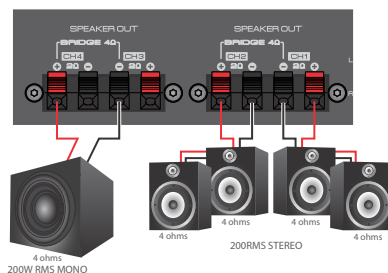
Example of using RCA input (AUX 2)

Select the AUX mode on the "MODE" key and the AUX 2 key not pressed.

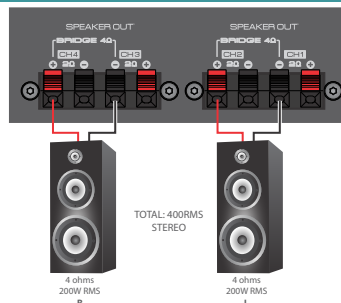


Examples of connections/configurations

Example 1: System 2.1 with four bookshelf speakers + 1 passive bass speaker. All 4 ohms.
 CH1/CH2: X-OVER in HPF, ROUTE in L/R
 CH3/CH4: X-OVER in LPF, ROUTE in L+R

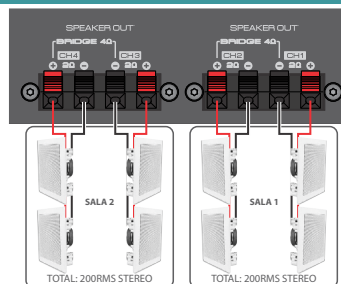


Example 2: Two full range TOWER boxes 200W each. Both 4 ohms
 CH1/CH2: X-OVER in OFF, ROUTE in L
 CH3/CH4: X-OVER in OFF, ROUTE in R

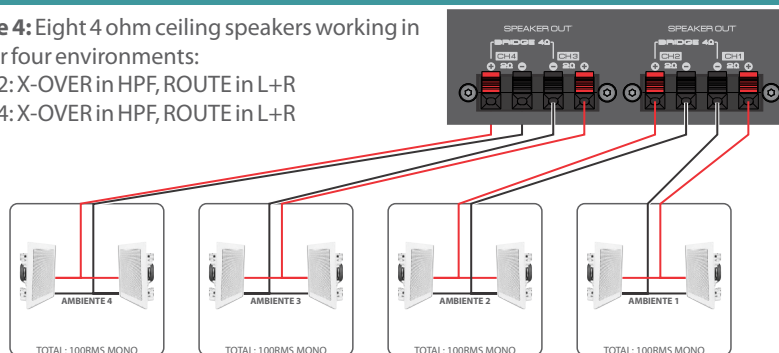


Example 3: Eight 4 ohm ceiling speakers working in stereo for two commercial rooms:
 CH1/CH2: X-OVER in HPF, ROUTE in L/R
 CH3/CH4: X-OVER in HPF, ROUTE in L/R

NOTE: The THS 6000 does not allow two signal sources to operate at the same time, known as dual zone.



Example 4: Eight 4 ohm ceiling speakers working in mono for four environments:
 CH1/CH2: X-OVER in HPF, ROUTE in L+R
 CH3/CH4: X-OVER in HPF, ROUTE in L+R



To connect to ceiling speakers, use cables with a minimum gauge of 1.5mm² for up to 40 meters. For longer distances, see table on page 02 "Important recommendations". It is necessary to make connections in parallel and series as shown in the example, to match impedance.

Technical features

ENGLISH

TARAMPS THS 6000:	Receiver Multi Channel Classe D
Number of Channels:	04
RMS Power:	400W (4 X 100W) ABNT NBR IEC 60268-3*
Nominal RMS Power of each channel:	100W / 200W BRIDGED
RMS output voltage for each channel:	14.2Vrms / 28.4Vrms Bridged
Total Harmonic Distortion + Noise (THD + N) at the nominal power of each channel (100W)	<3%
Each channel nominal Impedance:	2 Ohms / 4 Ohms Bridged
MIC Sensitivity:	10 mV
AUX input Sensitivity:	200 mV
MIC input impedance:	2.2K Ohms
AUX input impedance:	5K Ohms
Frequency response (equalizers at 0dB):	15Hz ~ 20KHz (-3db)
Typical 3-way equalizer performance:	
Low (bass):	±12dB - 80Hz
Mid (mid bass):	±12dB - 2KHz
High (high):	±12dB - 10KHz
Crossover	
HPF (High Pass Filter):	100Hz (-12dB/8 ^a) Fixed
LPF (Low Pass Filter):	100Hz (-12dB/8 ^a) Fixed
Power Supply:	90 ~ 140V AC or 190 ~ 240V AC
Maximum consumption:	508W
Consumption in Stand by:	3.5W
Internal protection fuse:	6A
Protection System:	Output protection against short-circuit and low impedance**
Ratio signal/noise:	>70db
FM frequencies:	87.5 MHz a 108MHz
Dimensions:	398 x 59 x 194mm (15.67" x 2.32" x 7.64")
Weight:	2.20Kg (4.84lb)

* Nominal power with 1KHz sinusoidal signal and 4 ohms resistive load. (Measured according to ABNT NBR IEC 60268-3 sound equipment, Part 3: Amplifiers).

** Protection system on page 07.

The values mentioned are typical and may change due to the tolerance of components or the manufacturing process. For more information or questions visit our website or contact TARAMPS support.



Taramps reserves the right to modify the contents of this manual without prior notice and not to apply the modifications to units previously produced.

Term of warranty

Located at Rua Abílio Daguano, 274 Res. Manoel Martins - Alfredo Marcondes - SP, ZIPCODE 19.180-000, TARAMPS guarantees this product against defects in design, manufacture, assembly and / or jointly due to design flaws that make it inappropriate or unsuitable for the intended use, for a period of 12 months from the date of acquisition.

In case of a defect in the warranty period, TARAMPS is responsible for the repair or replacement of the device manufactured by it.

This warranty excludes:

- Products damaged by improper installation, water infiltration, violation by unauthorized persons;
- Torn or torn warranty seal;
- Cases where the product is not used under normal conditions;
- Defects caused by accessories, modifications or equipment attached to the product;
- The product shows damage due to falls, impacts or the action of agents of nature (floods, lightning, etc.);
- Costs of removing and reinstalling the equipment, as well as transporting it to the technical assistance station;
- Damage of any nature, resulting from product problems, as well as losses caused by interruption of use.

Technical assistance

We have **technical assistance** all over Brazil and we are always ready to answer your questions and needs.

To locate an electronic Taramps technical assistance near you, access our website: www.taramps.com.br/pt/rede-de-assistencias-tecnicas or contact the factory's technical assistance department:

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