

Instruction Manual



THS 8000
4 x 200W RMS
CLASS D



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

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Introduction

Congratulations on purchasing a Taramps product.

Developed in a modern laboratory, with the 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 **THS 8000** 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, HDMI ARC, AUX, Optical 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 8000** 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 8000 and the loudspeakers.
- The table below shows the recommended gauges according to the distances:

Up to 20 m	Cables with gauge greater than or equal to	1 mm ²
Up to 40 m	Cables with gauge greater than or equal to	1,5 mm ²
Up to 70 m	Cables with gauge greater than or equal to	2,5 mm ²
Up to 100 m	Cables with gauge greater than or equal to	4 mm ²

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

Audio source

The **THS 8000** has the following audio inputs

1. USB: Flash drive input *
2. HDMI ARC
3. AUX: RCA standard auxiliary inputs.
5. Microphone input (standard P10)
6. Optical Input

* The connected device must contain music in MP3 format to be identified by the equipment. Maximum supported size: 128GB.
Do not use the USB input to connect to the computer or to recharge other devices that have batteries.

Package content

- 01 Receiver Multi Channel THS 8000



- 01 Remote control
- 04 Self adhesive ubber feet



Illustrative images

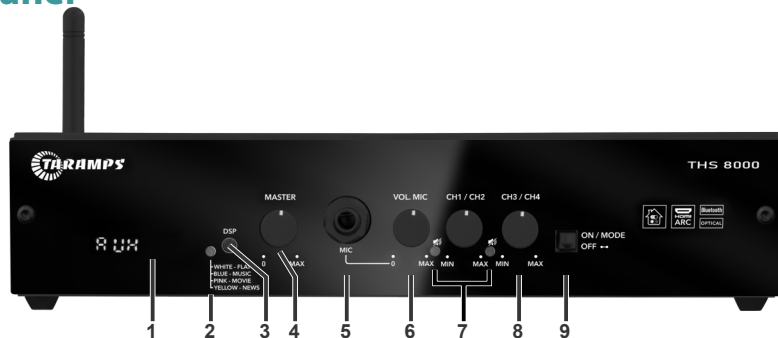
- 01 Bluetooth Antenna



- 01 Long range remote control



Front panel



1 - Display LED: USB, AUX (AUXILIARY), BT (BLUETOOTH), HDMI ARC and OPT (OPTICAL).

IR sensor for remote control: For better communication between the remote control and the device, point the remote control toward this area.



2 – LED: Indicates which audio preset is selected.

○ WHITE – FLAT

● BLUE – MUSIC

● PINK – MOVIE

● YELLOW – NEWS

3 – DSP: This button switches between the presets: FLAT / MUSIC / MOVIE and NEWS.

4 – MASTER: Controls the overall input volume.

5 – 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 microphone feedback.

6 – VOL. MIC: Microphone volume adjustment. If the microphone is not in use, it is recommended to keep the volume at the minimum level.

7 – LED MUTE: When the LED is on, it mutes channels 1 and 2 or 3 and 4.

8 – CH1/CH2 - CH3/CH4: Adjusts the volume of each channel (1 and 2 or 3 and 4).

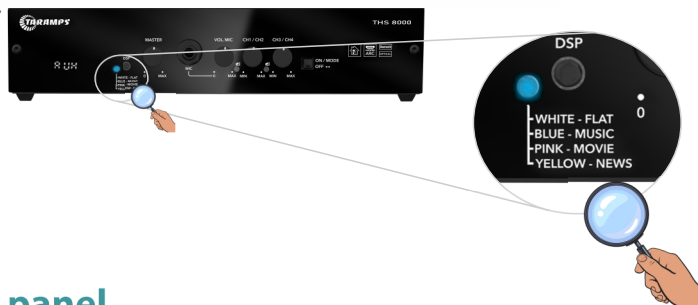
9 – ON/OFF / MODE: Short press: Selects the functions: USB, AUX (AUXILIARY), BT (BLUETOOTH), HDMI ARC and OPT (OPTICAL).

Long press: Turns the device on or off.

Protection system

The **THS 8000** is equipped with protection systems against short circuits and low impedance at the outputs. If the protection is activated, the **DSP LED** will flash red (up to 6 times) and the audio will be interrupted. The system will perform up to 10 automatic restart attempts, if the issue persists, the LED will remain on, and the device will be locked.

If the protection system is triggered frequently, review the settings and installation of your sound system.



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 the speaker enclosures. In this case, there are two possible connection options: the standard connection, with one speaker enclosure on each output, and the BRIDGED connection, which combines two channels into one for higher power output. Follow the indicated polarity and the recommended minimum impedance of 2 ohms for standard connection and 4 ohms BRIDGED connection.

3 - OUT: The LINE OUT output allows to send the audio signal (not amplified) to other equipment, such as another THS 8000, an amplifier or active subwoofer.

4 - IN: Audio input via RCA. To use this input, the device must be set to the AUX function.

5 - HDMI ARC: Audio input via HDMI. To use this input, the TV or similar device must be set to the HDMI ARC function. If it is not recognized the first time, switch the THS 8000 to the ARC function.

6 - OPTICAL: Optical audio input. To use this connection, set your Tv's audio output to Optical mode. It is essential that the digital output format is set to PCM. If loud noises are heard, this indicates that the received signal is incompatible, check the audio settings in your Tv's menu and select the PCM option (refer to the manufacturer's manual if necessary).

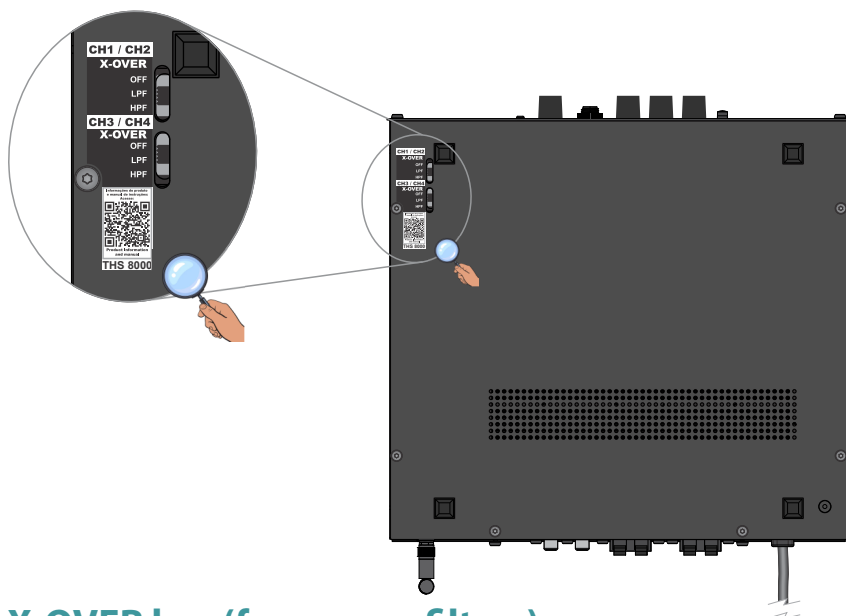
7 - USB: Flash drive input. **Do not use it as a charger for any accessory.**

8 - ANTENA BLUETOOTH: External antenna to improve Bluetooth reception and range.

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 four independent outputs.

For configurations, the THS 8000 has: two X-OVER keys to activate frequency filter depending on the type of box used, and BRIDGED output connections. The X-OVER 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 mid-bass, 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.

Remote control function

The **THS 8000** features a compact remote control, allowing you to conveniently operate the unit remotely.



Power: turns ON and OFF

MODE: Changes the USB audio signal sources, AUXILIARY, BLUETOOTH, HDMI ARC and OPTICAL.

MUTE: Temporarily mutes the audio output.

Pause/Play: Pauses or starts media playback.

V +: Increases the volume.

V -: Decreases the volume.

Left Arrow: Rewinds

Right Arrow: Advance

AUDIO EQUALIZATION: 3D, MOVIE, MUSIC, NEWS AND CLEARVOICE.

BASS: Bass adjustment

TREBLE: Treble adjustment

Long range remote control function

With the Taramps long range remote control, it is possible to control some functions of the THS 8000 at a much greater distance compared to the original remote control. This distance may vary depending on the line of sight area (without obstacles).



+ Increases volume.

- Decreases volume.

Pause/Play: Pauses or starts media playback. Press both keys simultaneously.

Left Arrow: Rewinds.

Right Arrow: Forwards.

CH1 CH2: Mutes channel 1 and 2.

CH3 CH4: Mutes channel 3 and 4.

OFF: Turns off the device

ON MODE: Turns on the device / Changes the audio sources.



Bluetooth

When selecting the Bluetooth functions (identified as "bt" on the display), the THS 8000 waits for a Bluetooth connection. Search using your cellphone, tablet, PC, or another device for the name "TARAMPS" and perform the pairing.

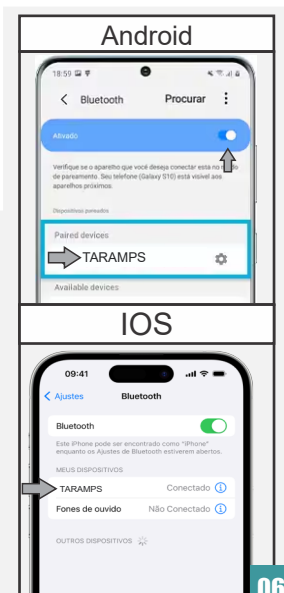
- To connect a new device, disconnect the current one and perform a new pairing

Bluetooth 5.3: Greater range and sound clarity

The signal may vary depending on obstacles in the environment (walls, furniture, etc...) and the specifications of the connected device.

* Some televisions have an audio outputs system via Bluetooth. If your television has this feature, it is possible to stream the audio to the THS 8000. Refer to your television manufacturer's manual.

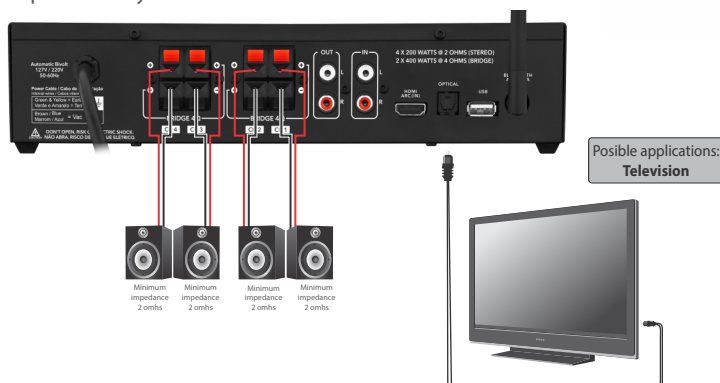
For other devices, the connection system is similar (Refer to the manufacturer's manual).



Example of using an OPTICAL input

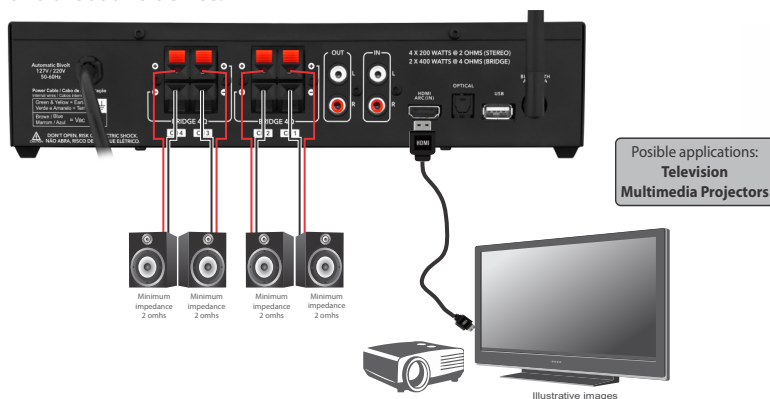
Select OPT mode using the "MODE" button. Set the TV to PCM standard output.

ATTENTION: "This equipment does not feature the Auto Turn On Function (automatic activation via optical signal). Therefore, to use the Optical input, it is necessary to manually turn on both devices (TV and THS 8000) to ensure proper audio synchronization."



Example of using an HDMI input

HDMI ARC (Audio Return Channel) is a feature that allows TV audio to be sent back to the receiver via an HDMI cable, simplifying the connection and reducing wiring by transmitting sound from TV apps or other devices connected to the TV's HDMI ARC port to the sound system. The connection requires HDMI ARC ports on both devices and an **HDMI 1.4 or higher cable**, and the function must be enabled in the audio settings of both the TV and the sound device.



Automation example



**REMOTE
CONTROL
SMART RF + IR**
RADIOFREQUENCY 315 TO 433MHZ.

(Use a product from a brand you trust)

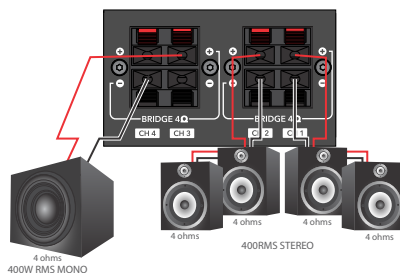
Procedure:

- Clone the desired functions from the THS 8000 Remote Control to the Smart RF + IR remote control hub, according to the Smart hub manual.
- Create scenes on the Smart Remote + Alexa with separated environments.

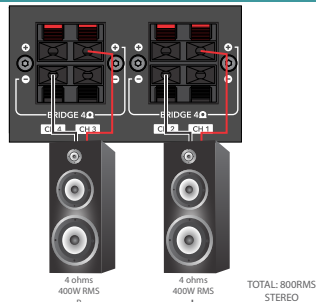
When properly configured, it can be operated through the Smart Life App or Alexa. All functions of the THS 8000 remote control are available, such as turning the device on or off, increasing or decreasing the volume, muting and unmuting, activating audio on channels 1 and 2 or 3 and 4, switching to the next or previous track, and pausing. It is also possible to turn the device on and off using the mute function of the RF remote controls.

Connection / Configuration example

Example 1: 2.1 system with four bookshelf speakers + 1 passive subwoofer. All 4 ohms
CH1/CH2: X-OVER in HPF
CH3/CH4: X-OVER in LPF

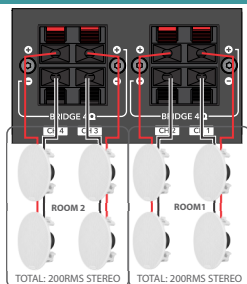


Example 2: Two full range tower speakers, 400W each. Both 4 ohms.
CH1/CH2: X-OVER in OFF
CH3/CH4: X-OVER in OFF

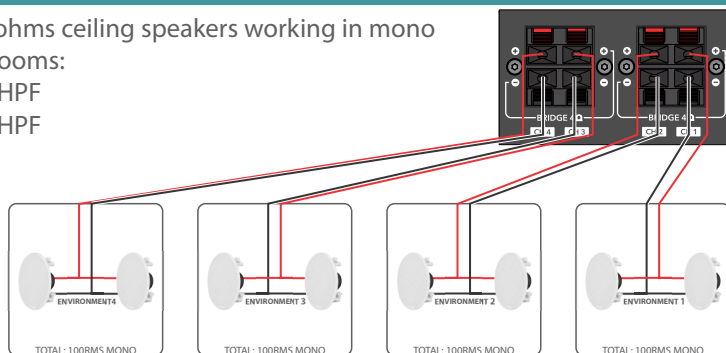


Example 3: Eight 4 ohms ceiling speakers working in stereo for two commercial rooms:
CH1/CH2: X-OVER in HPF
CH3/CH4: X-OVER in HPF

OBS: The THS 8000 does not allow two signal sources to operate simultaneously, known as dual zone.



Example 4: Eight 4 ohms ceiling speakers working in mono for two commercial rooms:
CH1/CH2: X-OVER in HPF
CH3/CH4: X-OVER in HPF



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.

Possible issues, how to solve them?

1- Audio cutting out, especially when the volume is increased above 50%.

Possible cause	Possible solution
Low quality HDMI cable	Use a high quality HDMI cable.
HDMI cable longer than 3 meters	It is recommended to use cables up to 2 meters in length. *

*For longer distances, use high quality HDMI cables. Ex.: HDMI 2.1 8K fiber optic.

This type of cable requires correct orientation. Display = TV / Source = Amplifier.

2- HDMI ARC connection. The TV recognizes the amplifier and mutes its own audio, but the sound is not transmitted to the amplifier.

Possible cause	Possible solution
Communication failure between devices	Turn off the TV and the amplifier for 1 minute; Turn on the TV first, then the amplifier (check if it is set to the HDMI option). Check the TV settings and make sure the HDMI cables is version 1.4 or higher. Older HDMI cables are not compatible with HDMI ARC technology.

3- The TV recognizes the amplifier, mutes its own audio, but the sound is not transmitted to the amplifier or is output only on two channels.

Possible cause	Possible solution
The audio is muted on the amplifier (no sound)	Check if the Mute LED is on the amplifier panel, indicating that the channel is muted.

4- The sound is very low or not present at all, even with the volume set to maximum on the remote control.

Possible cause	Possible solution
The audio is low or muffled	Check the MASTER volume and the two channel volume 1/2 and 3/4, as they are analog controls and must be set to the correct position.

For older televisions that no longer receive updates, HDMI ARC compatibility issues may occur. In such cases, use alternative input methods (optical, bluetooth or auxiliary).

For further information, please contact our technical support.

Fones: +55 (18) 3266-4050 / 99749-3391

E-mail: assistencia8@taramps.com.br

Technical features

THS 8000:	Receiver Multi Channel Class D
Number of channels:	04
RMS Power:	800W (4 x 200W) ABNT NBR IEC 60268-3*
Nominal RMS power of each channel	200W / 400W BRIDGED
Nominal RMS output voltage of each channel:	20V rms / 40V rms BRIDGED
Total Harmonic Distortion + Noise (THD + N) at the nominal Power of each Channel (100W)	<10%
Nominal Impedance of each channel	2 Ohms / 4 Ohms BRIDGED
MIC Input Sensitivity:	10 mV
AUX Input Sensitivity:	500 mV
MIC Input Impedance:	2,2K Ohms
AUX Input Impedance:	5K Ohms
Frequency Response (FLAT):	15 Hz to 20 KHz (-3 dB) - 4 OHMS
Power Supply:	90 to 140V AC or 190 to 240V AC
Maximum Consumption:	1250W - 127V AC / 1425W - 220V AC
Consumption in Standby:	30W
Internal Protection Fuse:	25 A
Protection System:	Thermal protection, output short circuit, and low impedance**
Ratio Signal/Noise:	>90 dB
Dimensions:	280 x 66 x 280 mm (11.02" x 2.6" x 11.02")
Weight:	2.37 Kg (5.22lb)

*Nominal power with a 1KHz sine wave signal and a 2 ohms resistive load. (Measured according to ABNT NBR IEC 60268-3 Sound system equipment, Part 3: Amplifiers).

**See the protection system on page 04.

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.

Warranty terms

TARAMPS, located at Júlio Budisk highway, SN, KM 30 – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-120, warrants this product against any defects on terms of project, making, assembling, and/or with solidarity, due to project vices which cause it improper or inadequate to its original use within 12 months from the date of purchase. In case of defect during the warranty period, TARAMPS responsibility is limited to the repairing or replacement of the device of its own making.

This warranty excludes:

- Damaged products by improper installation, water infiltration, violation by unauthorized individuals;
- Tamper or torn warranty seal;
- Cases in which the product is not used in adequate conditions;
- Defects caused by accessories, modifications or features attached to the product;
- The product with damage from falling, bumps or nature related problems (flooding, lightning, etc);
- Warranty card is not properly filled or torn;
- Costs involving uninstallation, reinstallation of equipment as well the shipment to the factory;
- Damage of any kind, due to problems in the product, as well as losses caused by discontinued use of the product.

Technical assistance

For international support, check on our website:

www.taramps.com.br/en/rede-de-assistencias-tecnicas or contact direct the factory support:

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