Instruction manual





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 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.

Presentation

The TARAMPS THS 4001 is a 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, Micro SD, 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. To turn the device on and off, use the ON/OFF switch located on the front panel. Keep turned off when not in use.

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 4001 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 4001 and the loudspeakers. The table below shows the recommended gauges according to the distances:

Until 20m (65,6 ft)	cables with a gauge larger than or equal to	1 mm ² (17 AWG)
Until 40m (131,2ft)	cables with a gauge larger than or equal to	1,5 mm ² (15 AWG)
Until 70m (229,6 ft)	cables with a gauge larger than or equal to	2,5 mm ² (13 AWG)
Until 100m (328 ft)	cables with a gauge larger than or equal to	4 mm ² (11 AWG)

⁻ In case of unwanted noise make sure that the cables and connections are in good condition.

Audio source

The TARAMPS THS 4001 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. BI UFTOOTH
- 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.

Me 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 4001, 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 4001



• 01 Remote Control



• 01 Optical Cable



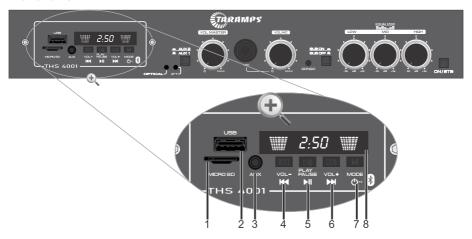
• 01 Bluetooth Antenna



Illustrative image

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

4-Track-/Volume-:

Short Touch: Rewind the music tracks in the USB/SD/BLUETOOTH. Reduce 0.1MHz of the frequency.

Long Touch: Reduce the volume in all sources options. Automatic search to previous stations.

5-Play/Pause:

Short Touch: Pause or start the music on USB / SD / BLUETOOTH. Advances next saved memory position of FM stations.

Mute for AUXILIARY option.

Long Touch: Searches for FM stations and saves them in memory.

6-Track + / Volume +:

Short Touch: Forward the music tracks in the USB/SD/ BLUETOOTH. Increase 0.1MHz of the frequency.

Long Touch: Increase the volume in all sources options. Automatic search to next stations.

7-Mode / ON/OFF:

Short Touch: Changes the source options, such as: USB/SD/AUXILIARY/BLUETOOTH/FM. **Long Touch:** Turns the player on or off, leaving only the microphone input active.

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.

03

Front Panel (sequence)



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

10 - 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. See page 05 (Function configuration mode).

- **11 AUX1 / OPTICAL or AUX 2 KEY:** Button pressed: Selects the AUX2 and Optical inputs. Button not pressed: Selects AUX input 1. (Inputs on rear panel).
- **12 MASTER:** Controls the overall volume of the Bluetooth, USB, Micro SD, FM, AUX, AUX1, OPTICAL and AUX2 inputs.
- 13 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.
- **14 VOL. 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.

15-GONGO: GONGO activation key.

The product has 2 GONGO options. To select another option with the device on, touch and hold the "GONGO" key. The 2 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.

16-SUB ON / SUB OFF KEY: Pressed button turns on the LPF 90Hz filter, allowing frequencies below 90Hz to pass through. Ideal for listening to your sound in SUB-BASS speakers. If the key is not pressed, it turns off the LPF filter, leaving the product with FULL-RANGE response.

17 - EQUALIZATION: 3 band equalizer control.

LOW: Bass frequencies MID: Middle frequencies HIGH: High frequencies.

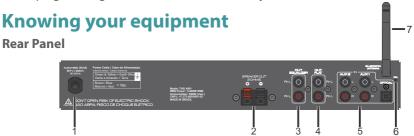
18-TECLA ON/STB: Turn ON the receiver or stay in standby mode. On, indicates that the product is plugged into the outlet in stand by mode.

Function configuration mode

With the device in Standby, touch and hold the **ON/STB key (14)** for more than 5 seconds. The blue LEDS on the panel will indicate the current status, being:

- **-OPTICAL(9)** lit, indicates that the AUTO TURN ON function is active. To change the status of this function, touch the **ON/STB button (18)** repeatedly until the LED goes out.
- **-ATT(10)** lit, indicates that the attenuation function is active. To change the status of this function, touch the **GONGO** key (15).

To exit programming, touch and hold the **ON/STB key (18)** for more than 5 seconds.



- 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. Follow the indicated polarity and the recommended minimum impedance of 2 Ohms for normal connection.
- **3 OUT EQUALIZER:** The OUT EQUALIZER output allows sending the audio signal (1V RMS maximum) to other equipment, such as another THS 4001, an amplifier or active subwoofer.

This signal goes through the equipment's equalization settings (LOW, MID and HIGH) and volume. The audio of each output corresponds to the selection of inputs made individually on each channel.

4 - OUT FLAT: The OUT FLAT output allows sending the audio signal (not amplified) to other equipment, such as another THS 4001, an amplifier or active subwoofer.

5-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 at the top of this page.

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).

- **6 FM ANTENNA:** Indoor wire antenna for FM radio reception. Position the wire antenna in order to achieve the best FM reception.
- **7-BLUETOOTH ANTENNA:** External antenna for better reception of the Bluetooth range.

Protection system

The THS 4001 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.



Remote control functions

The THS 4001 has a compact remote control, so you can remotely control the device with practicality.



- ON / OFF: Press this key to turn the player on or off.
- MODE: Switch the audio source (USB, BLUETOOTH, SD, AUXILIARY, FM).
- **MUTE:** Player only.
- 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-/FOLDER-/FM-:

TRACK- Rewinds the music track (short press) **FOLDER** - Goes back to the folder (long press) FM: Short press: Decreases the frequency by 0.1 MHz. **Long press:** Automatically searches for the previous station.

TRACK+/FOLDER+/FM+:

- **TRACK** Advances the music track (short press) **FOLDER** + Advance the folder (long press) FM: Short press: Increases the frequency by 0.1 MHz.
 - **Short long:** Automatically searches for 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

NUMERIC KEYBOARD: FM: Long Press saves FM stations.

NOTE: The SCN, REC and STOP keys have no function.

Bluetooth

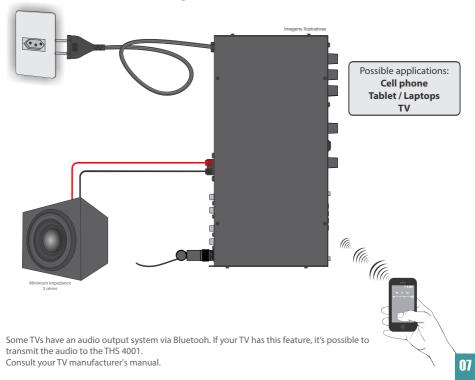
When selecting the Bluetooth function (identified with "bt" on the display), the THS 4001 waits for a Bluetooth connection. Search for the device called "TARAMPS" using your phone, tablet, PC or other and match it.

-To connect to a new device, disconnect the current one and make the new Bluetooth pairing. Bluetooth specification: class II with a 50 m (164 ft) 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 use example

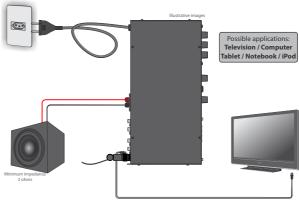


Example of using OPTICAL input

Select AUX 2 using the "AUX 1 / AUX 2" button. Set the TV to standard PCM output.

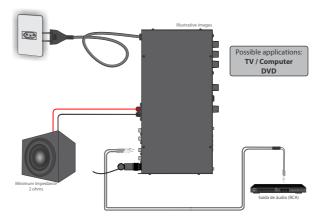
AUTO TURN ON: when the TV sends an optical signal, the device will automatically turn on and the OPTICAL LED will light up on the front panel. When there is no optical signal, the device turns off after 10 seconds.

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



Example of using RCA input (AUX 2)

Select AUX 2 BY PRESSING THE AUX 1 / AUX 2 BUTTON.



Connect control use example (Long range transmitter)

The THS 4001 is compatible with the CONNECT CONTROL, TARAMPS long range remote control which allows you to control your sound over wide distances and without the need to point the control at the device. The THS 4001 does not lose the functionality of the USB port, as the connect control allows a Flash Drive to be plugged into its USB port.

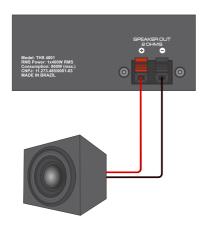
* For more details on the CONNECT CONTROL TARAMPS functionalities consult in its manual on the website.

Note: Connect Control Taramps are sold separately.

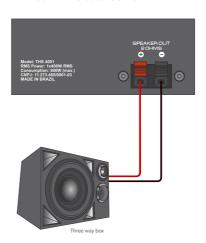


Examples of connections

Connection in 1 box with 400W RMS subwoofer at 2 OHMS



Connection in 1 trio box with 400W RMS total at 2 OHMS



Term of warranty

TARAMPS, located at Julio Budisk highway, SN, KM 30 – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-000, 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:

Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: service@taramps.com.br

Technical features

TARAMPS THS 4001:	_ Receiver Classe D	
Number of channels:	_ 01	
RMS Power:	_ 400W ABNT NBR IEC 60268-3 *	
Rated RMS output voltage of each channel:	_ 28,4Vrms	
Total Harmonic Distortion + Noise (THD + N) at the nominal power of each channel (100W)	e _ <10%	
Nominal impedance of each channel	_ 2 Ohms	
MIC Sensitivity:	_ 10 mV	
AUX input sensitivity:	_ 200 mV	
MIC input impedance:	_ 2.2KOhms	
AUX input impedance:	_ 5K Ohms	
Frequency response (equalizers at 0dB):	_ 10Hz ~ 50KHz (-3db) - 4 OHMS	
Typical performance of the 3-way equalizer: Low: Mid: High (treble):	_ ±12dB-80Hz _ ±12dB-2KHz _ ±12dB-12KHz	
Power supply:	_ 90 ~ 140VAC or 190 ~ 240VAC	
Maximum consumption:	_ 800W	
Stand by consumption:	_ 8W	
Internal protection fuse:	_ 6A	
Protection System:	Thermal protection, Output protection against short-circuit and low impedance**	
Signal to noise ratio:	_ >90db	
FM frequency range:	_ 76 MHz ~ 108MHz	
Dimensions (W x H x D):	_ 338 x 60 x 191 mm (13.31" x 2.36" x 7.52")	
Weight:	_ 1.80Kg (3.96lb)	

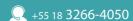
The values mentioned are typical and may change due to the tolerance of components or the manufacturing process. For more information or questions visit our website or contact TARAMPS support.



^{*}Nominal power with 1KHz sinusoidal signal and 2 Ohm resistive load. (Measured in accordance with ABNT NBR IEC 60268-3 Sound equipment, Part 3: Amplifiers).

^{**}See protection system on page 06.





Manufactured by:
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