

T50 *2-CHANNEL AMPLIFIER* BY **TRU**AUDIO

User Manual - T50



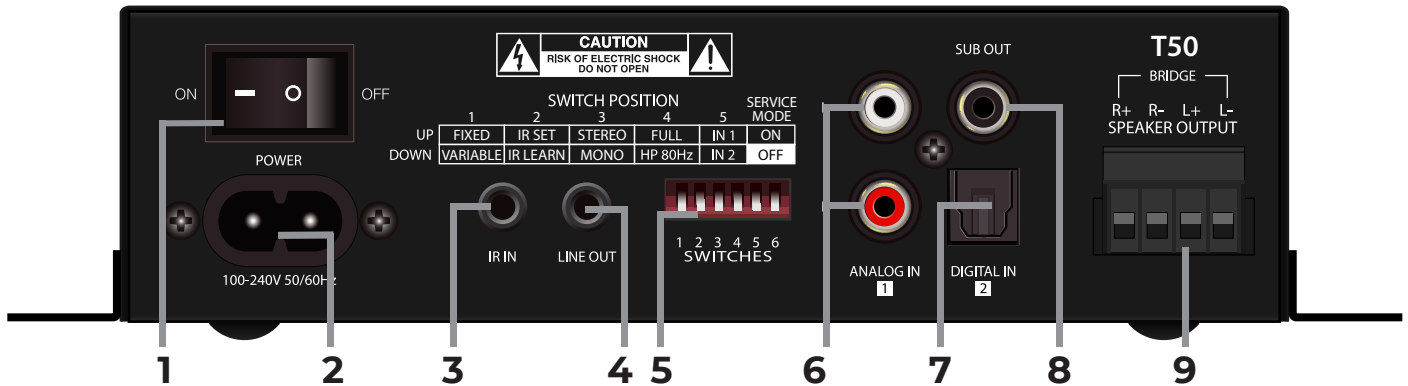
Box Contents

- T50
- IR Receiver
- Remote Control
- Power cord
- (2) Mounting brackets
- User Manual

Description

The T50 was designed to be a cost-effective way to add audio to any home. Using the latest digital technology, the T50 is able to run much cooler than a standard class AB amplifier, meaning it can be placed in most any dry location. We also added two convenience features: 1) a subwoofer RCA out and 2) a mono switch so you can play both channels of the music in full range from all speakers.

Features



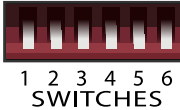
1. Power switch
2. 120V - 240V A/C, auto switching
3. IR input connector (IR Receiver included)
4. Audio line out (3.5mm)
5. Dip switches



1. Fixed or Variable
2. IR Set or IR Learn
3. Mono or stereo
4. Full range or above 80Hz: crossover setting for the speaker output
5. Analog RCA ("IN 1") or digital Toslink ("IN 2"): default input
6. Service mode
6. Analog RCA input
7. Digital (Toslink) input
8. Subwoofer
9. Speaker connection

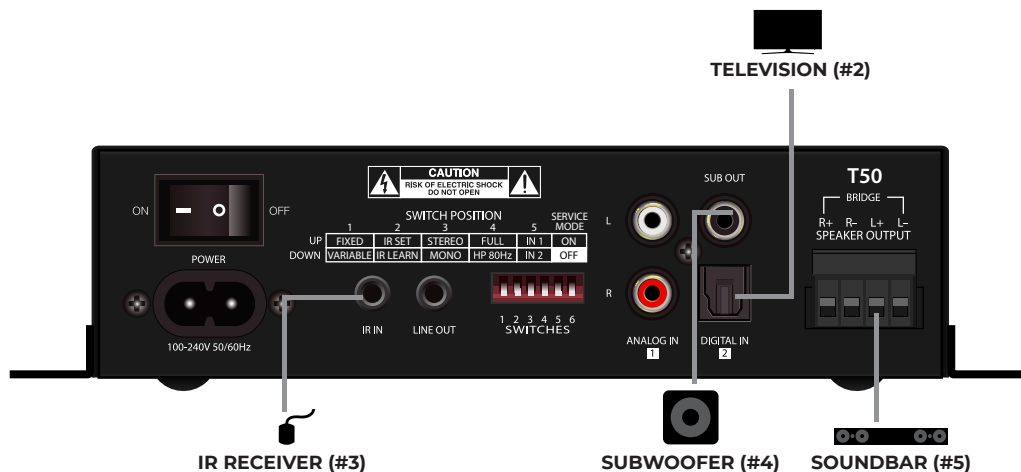
Dip Switches

		SWITCH POSITION					SERVICE MODE
		1	2	3	4	5	
UP		FIXED	IR SET	STEREO	FULL	IN 1	ON
DOWN		VARIABLE	IR LEARN	MONO	HP 80Hz	IN 2	OFF



- Fixed** - The amplifier output volume is fixed at 95%.
Variable - The amplifier output volume can be adjusted via IR remote.
- IR Set** - This will allow you to use the remote (through the IR receiver) to control the T50.
IR Learn - For learning IR commands from your remote (off, on, mute, volume down & volume up).
- Mono** - All speakers play both left & right channels of the audio (full range).
Stereo - each speaker will play its own left or right channel of audio.
- FULL** - The full range of audio frequencies will be outputted through the speakers (20 Hz - 20 kHz).
HP 80 Hz - The internal crossover limits all frequencies below 80Hz, going to the speakers.
- IN 1, IN 2** - If the T50 loses power or if the hard power switch is turned off, the amplifier will default to the input set by the dip switch when power is restored.
- SERVICE MODE** - Service mode is not used. Leave dip switch set to “off”

Installation



Connecting the T50 to a TV with Subwoofer

- Connect the TV audio to the T50 using analog RCA cables or Toslink
- Set dip switch 5 according to the audio source
- Set dip switch 1 to the down position (variable) for volume to be controlled by the T50 remote or set dip switch 1 to the up position (fixed) for volume to be controlled by the TV
- Connect a RCA cable from the powered subwoofer to the T50 “Sub out”
 - Set the subwoofer crossover and volume on the subwoofer
- Next connect the speakers

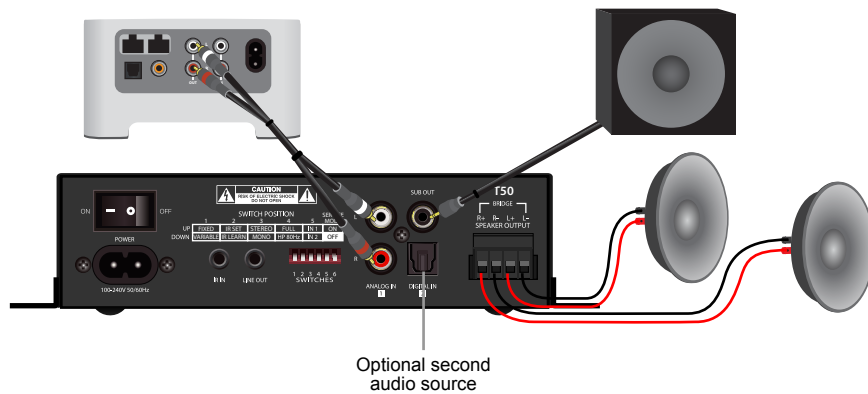
6. Connect the IR receiver to the “IR IN” and place the IR receiver somewhere in front of the TV where it will be visible to the remote

NOTE: If using a Toslink from the TV to the amp T50 and you don't hear audio, or the audio is garbled then set the audio coming from the TV or cable box to PCM stereo.

Connecting the T50 to an Audio Source with Subwoofer

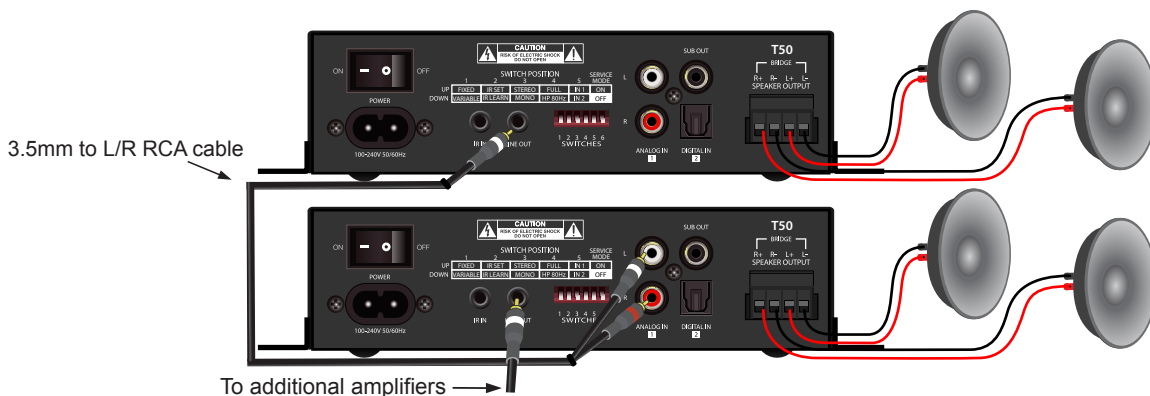
1. Connect your audio source to the T50 using a RCA cable or Toslink
2. Set dip switch 5 to IN1 or IN2 to set the default input
3. Set dip switch 1 to (variable) for volume to be controlled by the T50 remote, or, set dip switch 1 to (fixed) for volume to be controlled by the audio source.
4. Connect a RCA cable from the powered subwoofer to the T50 SUB OUT. Set the subwoofer crossover and volume on the subwoofer.
5. Now connect the speaker wires to the amplifier speaker output.

NOTE: To switch between audio sources, press the IN1 or IN2 button on the supplied remote.



Linking Multiple T50

When linking multiple T50's together the first T50 will be the control unit. Set the first amp to “variable” and additional amplifiers must be set to “Fixed”. The first T50 will control the volume of all additional amplifiers.

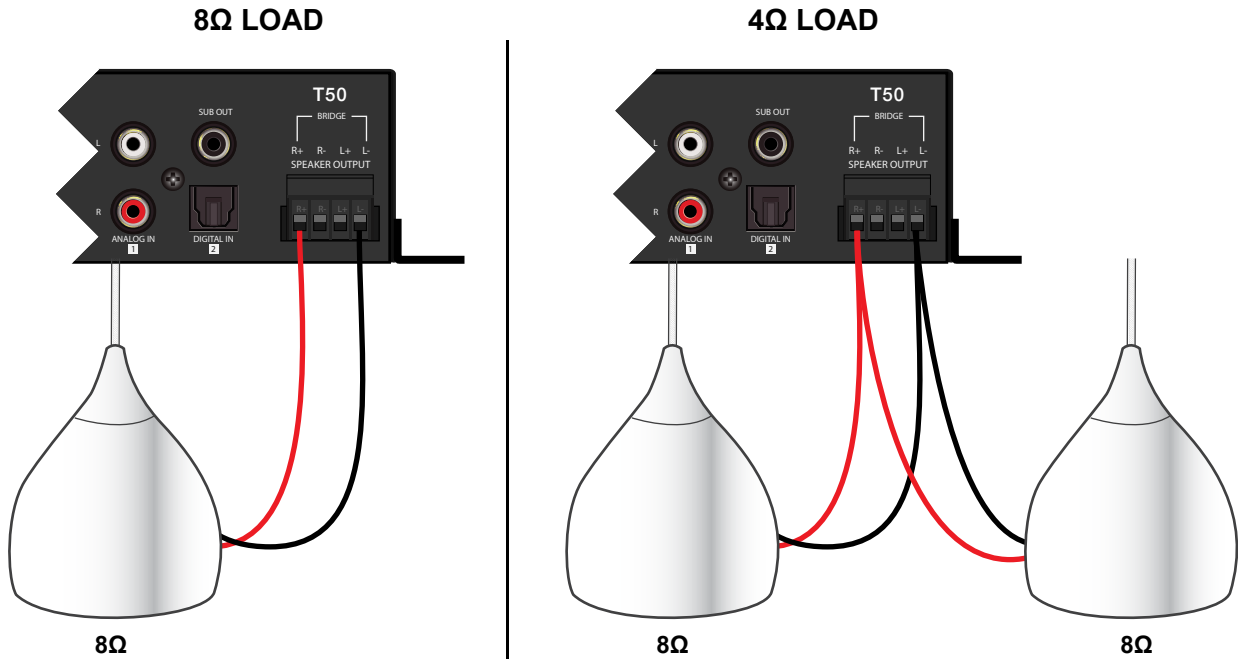


Bridge Mode

Bridge mode combines both the left and right channels to a single channel mono signal output. Bridge mode is stable down to a minimum load of 4Ω.

Power output bridged:

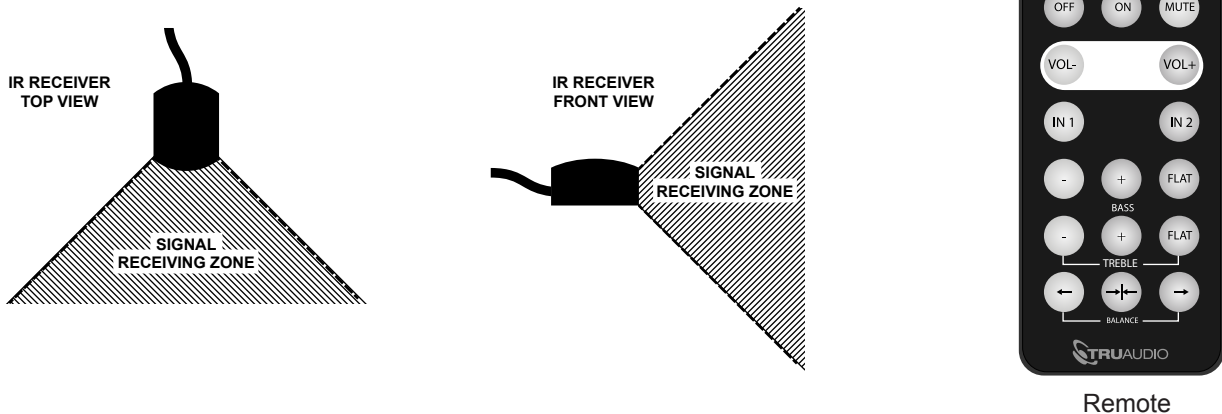
60W @ 8Ω
100W @ 4Ω



IR Connection, Control and Learning

Learning

This amplifier can learn the following commands (off, on, mute, volume down & volume up) from a TV's IR remote. The IR receiver can receive a signal to about 15-20 feet away.



Remote

How to learn the IR codes:

SET UP

1. Plug the IR receiver into the T50
2. T50 power switch must be OFF
3. Dip switch #2 must be set to IR SET

PROGRAMMING

1. Hard power the T50 on
2. Set dip switch #2 to LEARN (light will flash blue)
3. Aim the remote you want to use at the IR receiver (TV, cable, etc.)
4. Push the first button in the sequence (power off), blue light will flash, wait one second and press the same button again. The light will flash purple to confirm code.
5. Repeat learning for power on, mute, volume down and volume up.
6. After last button is programmed the blue light will stay on or turn red if no audio source is plugged into the T50.
7. Set dip switch #2 up to IR SET
8. You are now programmed.

When learning IR commands, the T50 will always learn in the following order.

Programming sequence:

- Power off
- Power on
- Mute
- Volume down
- Volume up

IR Reset. When learning the IR codes, if a mistake happens, you can set dip switch #2 to IR SET to reset the learning process and start again.

NOTE: Learn function will stop after 30 seconds of no activity.



T50

Amplifier type: Class D
Power output: 8 Ω50W
4 Ω60W
Bridge mode: 8 Ω60W
4 Ω100W
Frequency response: 20 Hz to 20 kHz
Dimensions: 1.75" (44.5mm) H
6.5" (165mm) W
5.2" (132mm) D
Weight: 2.25 lbs

IMPORTANT SAFETY INSTRUCTIONS

Never expose the amplifier to any kind of moisture. This product should not be used outdoors, near bathtubs, sinks, wet basements or swimming pools. This product is meant for indoor use only. Avoid placing this amplifier near heat sources such as radiators, heat registers or stoves. This amplifier should not be used in direct sunlight. Before connecting any cables to the amplifier, the power switch must be in the OFF position. Locate the amplifier where there is adequate ventilation to the sides of the amplifier. If the amplifier is used in a cabinet an additional cooling fan might be necessary. Make sure that the speakers that will be connected to this amplifier can handle the output power from the amplifier. Do not use this amplifier with a power receptacle or extension cord that is not adequately rated to handle the power requirements of the amplifier, or that will not allow the blades of the plug to be fully inserted to prevent blade exposure.

SoundVision Technologies dba TRUAUDIO

SUBWOOFER and ELECTRONIC PRODUCT WARRANTY

All subwoofers and amplifiers have a limited 5 year warranty. This warranty includes 5 year parts and repair labor on all components. The warranty extends only to the original purchaser of the product and not to any subsequent owner. TRUAUDIO's obligation under these warranties is limited to repairing or replacing any component found defective in material or workmanship under normal conditions of use with an equal and/or current product. These warranties shall not apply to products which have been abused, modified, or disassembled. Products to be repaired or returned under this warranty must be returned to the factory through an authorized TruAudio dealer with all transportation and insurance charges prepaid.

It is the policy of TRUAUDIO to continuously incorporate improvements into our products. All specifications are subject to change without notice. If you have any questions regarding this or any other TRUAUDIO products, please visit www.TruAudio.com or contact us:

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