

## TOPPING

Thank you for choosing the **Topping TP30**. The **TP30** features the Tripath TA2024 Class T architecture to provide high power output to push any loudspeaker on the market, while retaining a small size for portability. A headphone amplifier (featuring the Burr-Brown OP-2134) has been built into the **TP30** and exhibits the same audiophile sound quality as the Tripath TA2024 Class T loudspeaker amplifier section. Rounding out the features is a Windows® compatible USB Digital to Analogue Converter (DAC) for quick connection to PCs and use of songs stored on hard drives. Unique, high-quality, gold-plated miniaturized 5-way binding posts have been chosen to facilitate quick, simple connection of the amplifier to the loudspeakers. A 12 VDC, 5 A power supply is included.

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## Amplifier layout

1. Power switch
2. USB / AUX selector switch
3. Headphone output
4. Power LED & Volume control
5. USB input
6. AUX input (Right Channel)
7. AUX input (Left Channel)
8. R+ loudspeaker output
9. R- loudspeaker output
10. L+ loudspeaker output
11. L- loudspeaker output
12. Power input



### **Proper amplifier use**

#### 1. Using the TP30 with loudspeakers:

Please connect loudspeakers according to the diagram above, where the appropriate loudspeaker terminals connect to the associated amplifier output terminal. Use either bare speaker wire or cables terminated with banana plugs.

Ensure that you do not short out the amplifier, connecting positive speaker output terminals to negative speaker output terminals (on the same channel or across both channels), as this can cause permanent damage to the amplifier and voids the warranty. Additionally, this amplifier cannot be connected in bridged-mono mode for a single output; this will permanently damage the amplifier and void the warranty.

#### 2. Using the TP30 with headphones:

The TP30 has dual output, when you plug headphones into the TP30, the TP30 automatically switches to headphone mode and only sends signal to the headphone amplifier section, disconnecting the Tripath TA2024's amplifier loudspeaker output.

#### 3. Using the USB DAC:

Set the amplifier's USB/AUX switch to USB on the front of the amplifier housing. The USB DAC will now act as your PC's soundcard and decode your sound/music files for use with either the headphone or loudspeaker output. In some cases you may have to set the TP30 as the default sound device in Windows, within the Control Panel applet (which is within Settings) and within Sounds and Audio Devices.

## Troubleshooting

### *No sound at all:*

- Check to see that the power supply is properly connected and seated to the power input on the rear of the amplifier. An LED on the power supply will light when proper connection is made.
- Ensure the power switch on the rear of the TP30 is in the on position.
- Ensure the RCA cables are properly connected to the RCA inputs on the rear of the amplifier and that the USB cable is seated in the rear USB connector.
- Check the volume control and make sure is not set to 0.
- Ensure the headphones are disconnected when using loudspeakers.
- In USB mode, the volume setting in Windows should be set to 50% minimum or higher and that the amplifier is your default sound device.

### *The sound is unusual:*

- Double-check to see that your loudspeakers are correctly connected to the rear of the amplifier and on the back of your loudspeakers. Check for stray wires that could potentially short out against an adjacent terminal.
- Ensure that your loudspeakers have a minimum nominal impedance of four ohms ( $4\Omega$ ) or higher.
- Test your RCA cables with another device to see if they aren't causing the issue.
- When in USB mode, try a different song to see if the song in use wasn't recorded incorrectly. This DAC is capable of 16-bit/48 kHz resolution.

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### **Precautions**

- Ensure the loudspeaker outputs, including the headphone jack, do not short circuit or connect to ground.
- Keep the amplifier in reasonably cool, dry environments.
- Avoid dropping the amplifier.
- Opening the amplifier housing instantly voids the warranty!
- If liquid should come in contact with or be spilled into the amplifier housing, turn the power off immediately and disconnect the power supply. It is best to allow the liquid several days to dry. In most cases, once the liquid has dried the amplifier will operate normally.
- Only use the supplied power supply with the TP30.
- Maintain a proper volume level at all times. If you hear distortion in your headphones or speakers, reduce the volume level immediately. This will preserve your speakers and headphones from permanent damage.
- The TP30 is designed for indoor use only.
- Never remove the USB cable while the amplifier is playing in USB mode.

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### **Warranty**

TOPPING products and accessories are to be free from malfunctions and defects in both materials and workmanship for one year from the date of purchase.

This warranty is void when failure is due to: damage from water, modification/alteration of the amplifier, unauthorized service, misuse, abuse, use with incompatible speakers, or when failure occurs outside of the one year duration of this warranty.

Please contact the retailer through which your amplifier was purchased to obtain a return authorization. Please pack all pieces and parts, which came with your amplifier, carefully to avoid further damage and return to retailer.

## Specifications

*Loudspeaker output power:*

- 15W @ 4Ω, 10% THD+N
- 10W @ 8Ω, 10% THD+N

*Headphone output power:*

- 60 mW @ 16Ω, 1% THD+N
- 120 mW @ 32Ω, 1% THD+N

*Distortion:*

- Loudspeaker output: 0.03% THD+N @ 9W (using 4Ω speakers)
- Headphone output: 0.01% THD+N @ 100 mW (using 32Ω headphones)
- USB DAC: 0.008% THD+N @ 1 kHz