

## Topping TP-32EX

# Topping TP-32EX Digital Headphone Amplifier and USB-DAC Instruction Manual

Model: TP-32EX

## INTRODUCTION

The Topping TP-32EX is an advanced digital headphone amplifier and USB-DAC designed to deliver high-quality audio performance. This unit features 192 USB decoding, 50W per channel power output, and an integrated headphone amplifier. It is an upgraded version of the TP32, offering enhanced capabilities for a superior listening experience.

This manual provides essential information for the proper setup, operation, and maintenance of your TP-32EX amplifier. Please read it thoroughly before using the device.

## KEY FEATURES

- Remote control system and LED front display for convenient operation.
- Synchronized start-up and shutdown with your computer via USB connection.
- Volume fade function to protect speakers and hearing.
- Integrated T-Amp, DAC, and Headphone Amplifier design.
- Tripath TA2024B chipset with DPP technology for efficient amplification.
- USB connection for high-quality sound from your computer, supporting up to 24bit/96kHz.
- Cirrus Logic CS3310 low distortion electronic volume control.
- Gold-plated analog RCA stereo input.
- All-aluminum chassis with an 8mm CNC machined face plate for durability and aesthetics.
- High-quality components from KOA, ERO, Siemens, Nichicon, Toko, and Omron.
- Turn-on & turn-off pop suppression.
- Over current & over temperature protection.

## PACKAGE CONTENTS

Please check the package for the following items:

- 1x Topping TP-32EX Amplifier Unit
- 1x Power Adapter

- 1x RC11 Remote Control
- 1x Power Cable
- 1x USB Cable
- 1x 6.35mm to 3.5mm Headphone Adapter
- 1x User Manual (English)

## SETUP INSTRUCTIONS

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Follow these steps to set up your Topping TP-32EX amplifier:

### 1. Connect Speakers

Connect your passive speakers to the speaker output terminals on the rear panel of the TP-32EX. Ensure correct polarity (red to positive, black to negative) for both left (L OUT) and right (R OUT) channels.



Image: Rear panel connections of the Topping TP-32EX. This view shows the USB B input, AUX IN (RCA), R OUT and L OUT speaker terminals, and the 12V DC power input.

### 2. Connect Audio Sources

- **USB-DAC Connection:** Connect the provided USB cable from the USB B port on the rear of the TP-32EX to a USB port on your computer. This enables the amplifier's built-in DAC for digital audio playback.
- **Analog Input (AUX IN):** For analog audio sources (e.g., CD player, media player), connect an RCA cable from your source's output to the "AUX IN" RCA ports on the rear panel.

### 3. Connect Headphones

Plug your headphones into the 6.35mm headphone jack located on the front panel. If your headphones have a 3.5mm plug, use the included 6.35mm to 3.5mm adapter.

### 4. Connect Power

Connect the power adapter to the 12V DC input on the rear panel of the TP-32EX, then plug the power cable into a wall outlet. The unit will power on or enter standby mode.

## OPERATING INSTRUCTIONS

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### Power On/Off

- Press the power button on the front panel or the remote control to turn the unit on or off.
- When connected via USB, the TP-32EX can synchronize its power state with your computer.

## Input Selection

Use the input selector button on the front panel or the remote control to switch between the USB-DAC input and the AUX IN (analog) input.

## Volume Control

- Adjust the volume using the rotary knob on the front panel or the volume up/down buttons on the remote control.
- The LED display will show the current volume level.
- The volume fade feature helps prevent sudden loud sounds when powering on or changing inputs.

## Headphone Output

When headphones are plugged into the front panel jack, the speaker outputs will typically be muted automatically. Unplug the headphones to resume audio playback through the speakers.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or abrasive materials, as they may damage the finish.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the ventilation slots on the chassis.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

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If you encounter issues with your TP-32EX, refer to the following common problems and solutions:

- **No Power:**
  - Check if the power adapter is securely connected to both the amplifier and the wall outlet.
  - Ensure the wall outlet is functional.
- **No Sound from Speakers/Headphones:**
  - Verify that the correct input source (USB or AUX IN) is selected.
  - Check all audio cable connections (speakers, headphones, source).
  - Ensure the volume is not set to minimum or muted.
  - If using headphones, ensure they are fully plugged in. Speaker output is typically muted when headphones are connected.
  - For USB input, ensure your computer's audio output is set to the TP-32EX.
- **Remote Control Not Working:**
  - Check and replace the remote control batteries if necessary.
  - Ensure there are no obstructions between the remote and the amplifier's IR receiver.
  - Point the remote directly at the front panel of the amplifier.
- **Distorted Sound:**
  - Reduce the volume level on both the amplifier and the audio source.

- Check cable connections for any loose or damaged cables.
- Ensure speaker impedance matches the amplifier's specifications (4-8Ω).

## SPECIFICATIONS

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### Amplifier Section

- **Suitable Speaker Impedance:** 4-8Ω
- **Maximum Output Power:**
  - 50W (RL=4Ω, THD+N=10%)
  - 30W (RL=8Ω, THD+N=10%)
- **Frequency Response:** 20-20kHz

### Headphone Amplifier Section

- **Suitable Headphone Impedance:** 16-300Ω
- **Maximum Output Power:** 140mW (RL=32Ω, THD+N=1%)
- **Maximum Output Voltage Swing:** 10Vpp
- **Minimum THD+N:** 0.002% (RL=32Ω, Pout=45mW)
- **THD+N (@1kHz):** 0.02%
- **Frequency Response:** 20-20kHz ±2.0dB
- **Input Sensitivity:** 750mVrms
- **Gain (@1kHz):** 8.6dB

### DAC Section

- **Maximum Sample Bit (USB):** 24bit (maximum 96kHz)
- **Maximum Sample Rate (USB):** 192kHz (maximum 16bit)
- **Maximum Sample Bit (S/PDIF):** 24bit
- **Maximum Sample Rate (S/PDIF):** 192kHz

### General

- **Dimensions (Package):** 27.94 x 20.83 x 7.37 cm
- **Weight (Package):** 1.36 kg

## WARRANTY AND SUPPORT

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Topping products are designed for reliability and performance. For warranty information and technical support, please refer to the official Topping website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

For specific issues not covered in this manual, please contact Topping customer service for assistance.

