Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

xDuoo TA-30

xDuoo TA-30 Bluetooth 5.0 ES9038Q2M DAC & Tube Headphone Amplifier User Manual

1. Introduction

Thank you for purchasing the xDuoo TA-30 Bluetooth 5.0 ES9038Q2M DAC & Tube Headphone Amplifier. This device is designed to provide a high-fidelity audio experience by combining a powerful digital-to-analog converter (DAC) with a warm-sounding tube amplification stage. This manual provides essential information for the proper setup, operation, and maintenance of your TA-30 amplifier.

2. Safety Information

- **Power Supply:** Ensure the power supply voltage matches the requirements specified on the unit (AC220V / 110V). Incorrect voltage can damage the device.
- **Ventilation:** Do not block ventilation openings. Allow adequate space around the unit for proper airflow to prevent overheating.
- **Moisture:** Keep the unit away from water, moisture, and high humidity environments. Do not operate with wet hands.
- **Heat Sources:** Avoid placing the unit near heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Handling Tubes:** The vacuum tubes can become very hot during operation. Avoid touching them directly. Allow sufficient time for them to cool down before handling.
- **Cleaning:** Disconnect the power before cleaning. Use a dry, soft cloth. Do not use liquid cleaners or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Please check the package for the following items:

- xDuoo TA-30 Main Unit
- Power Cable
- USB Cable
- Bluetooth Antenna
- User Manual

If any items are missing or damaged, please contact your dealer immediately.

4. Product Overview

4.1 Front Panel



Image: Front view of the xDuoo TA-30 amplifier, showing the OLED screen, control buttons, headphone jack, and volume knob, with illuminated vacuum tubes.

1. **OLED Screen:** Displays current input, sampling rate, and other status information.
2. **INPUT Button:** Cycles through USB, Coaxial, and Optical inputs.
3. **FILTER Button:** Selects digital filter modes (specific modes may vary based on firmware).
4. **BT Button:** Activates Bluetooth input and pairing mode.
5. **6.35mm Headphone Output:** Connects to headphones with a 6.35mm (1/4 inch) jack.
6. **Volume Knob:** Adjusts the output volume for the headphone output.
7. **Vacuum Tubes:** Visible 5Z3P and ECC82 tubes, which process the audio signal.

4.2 Rear Panel



Image: Rear view of the xDuoo TA-30 amplifier, showing the power switch, AC input, USB, Coaxial, Optical inputs, Bluetooth antenna connector, and RCA line outputs.

1. **AC IN:** Power input connector (AC220V / 110V selectable).
2. **ON/OFF Switch:** Main power switch for the unit.
3. **USB IN:** USB Type-B input for connecting to a computer or other USB audio source.
4. **COAXIAL IN:** Coaxial digital audio input.
5. **OPTICAL IN:** Optical (Toslink) digital audio input.
6. **AUX OUT (RCA):** Analog RCA line outputs for connecting to an external amplifier or powered speakers.
7. **Bluetooth Antenna Connector:** For attaching the included Bluetooth antenna.

5. Setup

5.1 Unpacking and Placement

- Carefully remove the TA-30 from its packaging.
- Place the unit on a stable, level surface with adequate ventilation. Avoid placing it in enclosed spaces or on soft surfaces that may block airflow.

5.2 Bluetooth Antenna Installation

- Locate the Bluetooth antenna in the package.
- Screw the antenna onto the designated connector on the rear panel of the TA-30. Ensure it is securely fastened but do not overtighten.

5.3 Power Connection

- Ensure the AC voltage selector on the rear panel (if present and accessible) is set correctly for your region (AC220V or AC110V).
- Connect the provided power cable to the AC IN port on the rear panel of the TA-30.
- Plug the other end of the power cable into a suitable wall outlet.

5.4 Input Connections

- **USB Input:** Connect a USB cable from your computer or other USB audio source to the USB IN port on the TA-30.
- **Coaxial Input:** Connect a coaxial digital audio cable from your source device to the COAXIAL IN port.
- **Optical Input:** Connect an optical (Toslink) digital audio cable from your source device to the OPTICAL IN port.

5.5 Output Connections

- **Headphone Output:** Plug your headphones into the 6.35mm headphone jack on the front panel.
- **RCA Line Out:** If connecting to an external amplifier or powered speakers, use RCA cables to connect the AUX OUT ports on the rear panel to your external audio equipment.

6. Operating Instructions

6.1 Power On/Off

- To power on the unit, flip the ON/OFF switch on the rear panel to the 'ON' position. The OLED screen will illuminate, and the tubes will begin to warm up.
- To power off, flip the ON/OFF switch to the 'OFF' position.

6.2 Input Selection

- Press the **INPUT** button on the front panel to cycle through the wired inputs: USB, Coaxial, and Optical. The selected input will be displayed on the OLED screen.
- To select Bluetooth input, press the **BT** button.

6.3 Volume Control

- Rotate the large **VOLUME** knob on the front panel clockwise to increase the headphone output volume and counter-clockwise to decrease it.
- *Note:* The volume knob primarily controls the headphone output. The RCA line output is typically a fixed level, suitable for connecting to a preamplifier or integrated amplifier.

6.4 Bluetooth Pairing

- Press the **BT** button on the front panel to switch to Bluetooth input. The OLED screen will indicate Bluetooth mode.
- On your source device (smartphone, tablet, etc.), enable Bluetooth and search for available devices.
- Select "xDuoo TA-30" from the list of devices to pair. Once paired, the OLED screen may show a connection indicator.

6.5 Digital Filter Selection

- Press the **FILTER** button on the front panel to cycle through the available digital filter modes. The selected filter may subtly alter the sound characteristics. Experiment to find your preferred setting.

7. Maintenance

7.1 Cleaning

- Always disconnect the power cable before cleaning.
- Use a soft, dry, lint-free cloth to wipe the exterior surfaces of the unit.
- Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the finish.

7.2 Tube Replacement (Advanced Users)

- The vacuum tubes (5Z3P and ECC82) have a finite lifespan and may require replacement over time.
- If you experience a significant degradation in sound quality or tube failure, replacement may be necessary.
- **Caution:** Tube replacement should only be performed by experienced individuals or qualified technicians. Ensure the unit is powered off and unplugged, and the tubes have completely cooled down before attempting removal or installation. Refer to specific tube replacement guides or consult xDuoo support for detailed instructions.

7.3 Storage

- If the unit will not be used for an extended period, disconnect it from the power supply and store it in a cool, dry place, away from direct sunlight and extreme temperatures.

8. Troubleshooting

- **No Power:**
  - Check if the power cable is securely connected to both the unit and the wall outlet.
  - Ensure the ON/OFF switch on the rear panel is in the 'ON' position.
  - Verify the wall outlet is functioning correctly.
- **No Sound from Headphones:**
  - Confirm that headphones are fully plugged into the 6.35mm jack.
  - Check the volume knob position; ensure it is not set to minimum.
  - Verify the correct input source is selected (USB, Coaxial, Optical, or Bluetooth).
  - Ensure your source device is playing audio and its volume is not muted or too low.
- **Bluetooth Connection Issues:**
  - Ensure the TA-30 is in Bluetooth input mode.
  - Make sure the Bluetooth antenna is securely attached.
  - Try unpairing and re-pairing the TA-30 from your source device's Bluetooth settings.
  - Ensure your source device is within range of the TA-30.
- **Distorted or Poor Sound Quality:**
  - Check all audio cables for secure connections and damage.
  - Ensure the audio source is of good quality.
  - If using USB, ensure the correct audio drivers are installed on your computer (if required).
  - Consider the age and condition of the vacuum tubes; they may need replacement if sound quality has degraded significantly over time.
- **Volume Imbalance at Low Levels:**
  - Some analog volume potentiometers may exhibit slight channel imbalance at very low volume settings. This is a characteristic of certain potentiometer designs. If this is noticeable, try increasing the volume slightly and adjusting the source volume if possible.

9. Specifications

Parameter	Value
Power Supply	AC220V / 110V
Screen	1.3 inch OLED
Compliant OS	Win7, Win8, Win10, Mac OSX, iOS, Android system
Output Power	3000mW (32Ω load)
Frequency Response (USB/OPT/COA/BT)	20Hz~20KHz (±0.5dB)
Frequency Response (AMP)	10 Hz~100kHz (±0.5dB)
USB IN Sampling Rate (PCM)	16-32bit/44.1k-768kHz
USB IN Sampling Rate (DXD)	24-32 bit/352.8k-384kHz
USB IN Sampling Rate (DSD)	64-512
OPT/COA IN Sampling Rate (PCM)	16-24bit/44.1K-192kHz
OPT/COA IN Sampling Rate (DSD)	DSD64 (DOP)
Bluetooth Format Support	SBC, AAC, aptX, aptX HD, aptX LL, LDAC
Signal-to-Noise Ratio (S/N)	110dB (A weighted)
Crosstalk	≥ 65dB
Total Harmonic Distortion + Noise (THD+N)	0.5%@1kHz
Dimensions (L x W x H)	29 x 11 x 17 cm (approx. 11.4 x 4.3 x 6.7 inches)
Weight	3.0 KG (approx. 6.6 pounds)

10. Warranty and Support

The xDuoo TA-30 amplifier comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or contact your point of purchase for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or inquiries regarding parts and service, please contact xDuoo customer support or your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B083RW9M86

More documents and user manuals: **https://manuals.plus/**