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› [Dayton Audio](#) /

› [Dayton Audio DTA-PRO 100W Class D Bluetooth Amplifier User Manual](#)

Dayton Audio DTA-PRO

Dayton Audio DTA-PRO 100W Class D Bluetooth Amplifier User Manual

Model: DTA-PRO

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Dayton Audio DTA-PRO 100W Class D Bluetooth Amplifier. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your audio experience.



Image: Angled front view of the Dayton Audio DTA-PRO amplifier, showcasing its compact design and front panel controls.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Dayton Audio DTA-PRO Amplifier
- IR Remote Control
- Power Adapter (24V, 5A recommended for full performance)
- Power Cord
- Bluetooth Antenna



Image: The DTA-PRO amplifier, remote control, power adapter, power cord, and Bluetooth antenna included in the package.

Note:

The included power supply is capable of driving this amplifier at 2 x 40 watts per channel. To achieve the full potential of this amplifier (>50 watts per channel), a 24V 5A power supply capable of producing 120 watts of total output is recommended.

SETUP

1. Connect Speakers

Connect your passive speakers to the speaker terminals on the rear panel of the DTA-PRO. Ensure correct polarity (+ to + and - to -) for each channel (Left and Right).



Image: Rear panel connections, including speaker terminals for left and right channels, and the power input.

2. Connect Audio Sources

The DTA-PRO offers multiple input options:

- **Bluetooth:** For wireless audio streaming from compatible devices.
- **AUX (3.5mm):** Connect devices with a 3.5mm audio output.
- **Optical:** For digital audio input from TVs, game consoles, etc.
- **Coaxial:** Another digital audio input option.
- **PC-USB:** Connect to a computer for use as an external DAC.

Connect your desired audio source cables to the corresponding input ports on the rear panel.



Image: Close-up of the rear panel showing AUX, Optical, Coaxial, and PC-USB input ports.

3. Connect Subwoofer (Optional)

If using an active subwoofer, connect it to the "SUB OUT" port on the rear panel.

4. Attach Bluetooth Antenna

Screw the included Bluetooth antenna onto the "ANT" connector on the rear panel for optimal wireless reception.

5. Connect Power

Connect the power adapter to the "DC 24V" input on the rear panel, then plug the power cord into a wall outlet.

OPERATING INSTRUCTIONS

Power On/Off

Press the **ON/OFF** button on the front panel or the power button on the remote control to turn the amplifier on or off.



Image: Front panel of the DTA-PRO, showing the volume knob, input select button, and power button.

Input Selection

Press the **SELECT** button on the front panel or the **INPUT SELECT** button on the remote to cycle through available audio inputs (Bluetooth, AUX, Optical, Coaxial, PC-USB). The active input will be displayed on the front panel screen.

Volume Control

Rotate the large knob on the front panel or use the **VOL+** / **VOL-** buttons on the remote control to adjust the volume level.

Tone Controls and EQ

Use the remote control to access tone adjustments:

- **BASS/TREBLE:** Adjust bass and treble levels.
- **EQ:** Cycle through preset equalizer settings.
- **LOUDNESS:** Engages or disengages loudness compensation for enhanced bass and treble at low volumes.
- **DIRECT:** Bypasses all tone controls for a pure audio signal.



Image: The infrared remote control for the DTA-PRO, showing buttons for power, volume, input select, EQ, bass/treble, loudness, and direct mode.

Bluetooth Pairing

1. Select Bluetooth as the input source. The front display will indicate "BT".
2. On your Bluetooth device, search for "Dayton Audio DTA-PRO" and select it to pair.
3. Once paired, the display will show a stable Bluetooth connection.

DAC Sampling Rate Indication

The front panel features indicator LEDs that display the sampling rate of the incoming digital audio signal (e.g., 44.1K, 48K, 88.2K, 96K, 176.4K, 192K).

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the ventilation openings.
- **Environment:** Avoid exposing the unit to extreme temperatures, humidity, or direct sunlight.
- **Power:** Disconnect the power supply if the unit will not be used for an extended period.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power	Power cord not connected; power outlet not active; unit off.	Check power connections; try a different outlet; press power button.
No sound	Incorrect input selected; volume too low; speaker wires disconnected; source device not playing.	Select correct input; increase volume; check speaker connections; verify source playback.
Distorted sound	Volume too high; poor source quality; incorrect speaker impedance.	Reduce volume; try a different source; ensure speakers are compatible.
Bluetooth not connecting	Amplifier not in pairing mode; device too far; interference.	Ensure BT input is selected; move device closer; restart amplifier and device.
Humming noise	Ground loop issue; faulty cable; proximity to other electronics.	Try isolating power; use shielded cables; move away from interference sources.
Optical input not working / static noise	Faulty optical cable; incorrect source settings; amplifier issue.	Check optical cable connection and integrity; ensure source device is outputting optical audio; try a different optical cable.
Right channel audio intermittent or dead	Loose speaker connection; faulty speaker; internal amplifier issue.	Verify speaker wire connections; test with a different speaker; if problem persists, contact support.

SPECIFICATIONS

- **Brand:** Dayton Audio
- **Model:** DTA-PRO
- **Output Power:** 50 Watts per channel (with recommended 24V 5A power supply)
- **Number of Channels:** 2
- **Input Options:** Bluetooth, 3.5mm AUX, Optical, Coaxial, PC-USB
- **DAC Sampling Rate:** Up to 192 kHz/24-bit
- **Item Dimensions (L x W x H):** 5 x 5.2 x 1.3 inches (12.7 x 13.2 x 3.3 cm)
- **Item Weight:** 2.9 pounds (1.3 kg)
- **Voltage:** 32 Volts, 70 Volts (Internal components, external power supply 24V DC)
- **Mounting Type:** Surface Mount
- **Specification Met:** FCC
- **UPC:** 848791005312
- **Date First Available:** January 14, 2019

WARRANTY INFORMATION

For specific warranty details, please refer to the warranty card included with your product or visit the official Dayton Audio website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

SUPPORT

If you encounter any issues not covered in this manual or require further assistance, please contact Dayton Audio customer support. You can find contact information on the official Dayton Audio website:
www.daytonaudio.com