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› [TOPPING A900 Ultra-Flagship Headphone Amplifier Instruction Manual](#)

TOPPING TP-A900

TOPPING A900 Ultra-Flagship Headphone Amplifier

Model: TP-A900 | Brand: TOPPING

INTRODUCTION

The TOPPING A900 is an ultra-flagship headphone amplifier designed for superior audio performance. It features a fully differential balanced architecture, high power output, and versatile connectivity options, making it suitable for demanding audiophiles and professional studio environments. This manual provides essential information for setting up, operating, and maintaining your A900 amplifier.



Image: The TOPPING A900 Ultra-Flagship Headphone Amplifier, showcasing its sleek design and premium build quality.

KEY FEATURES

- **Ultra-Flagship Power Output:** Delivers up to 22,000mW at 16Ω with patented T'ang-ku-la amplifier modules, achieving 0.00003% THD and exceptional dynamic range.
- **True Fully Balanced Signal Path:** Three T'ang-ku-la modules form a 6-channel fully differential architecture, maintaining a balanced signal throughout for clean, distortion-free audio.
- **Versatile Pro-Grade Output Selection:** Offers six headphone outputs including 6.35mm SE, 4.4mm balanced, 4-pin XLR, and dual 3-pin XLR, utilizing high-quality Neutrik and Pentaconn connectors.

- **Precision Relay-Based Volume Control:** Features a fully balanced relay volume design with -153dB channel crosstalk and precise 0.5dB steps for accurate level adjustment.
- **Pure Preamp Mode:** High-performance preamp mode with THD+N < 0.000055%, ideal for integration with power amplifiers and active speakers.
- **Customizable Display and Controls:** 2-inch full-color screen displays playback info, FFT spectrum, and VU meters. Intuitive touch buttons and volume knob with selectable themes.
- **Isolated Power Supply Architecture:** Separate power paths for analog and digital circuits ensure stable voltage and reduce mutual interference.

SETUP

Follow these steps to set up your TOPPING A900 amplifier:

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all accessories, including the CNC remote, are present.
2. **Placement:** Place the A900 on a stable, flat surface away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the unit.
3. **Power Connection:** Connect the provided power cable to the AC input on the rear panel of the A900 and then to a suitable power outlet.
4. **Input Connection:** Connect your audio source(s) to the desired input ports on the rear panel (e.g., XLR, RCA).
5. **Output Connection:** Connect your headphones to one of the six headphone output jacks on the front panel, or connect to a power amplifier/active speakers using the balanced XLR or single-ended RCA preamp outputs on the rear.
6. **Power On:** Press the power button on the front panel or use the remote control to turn on the device.

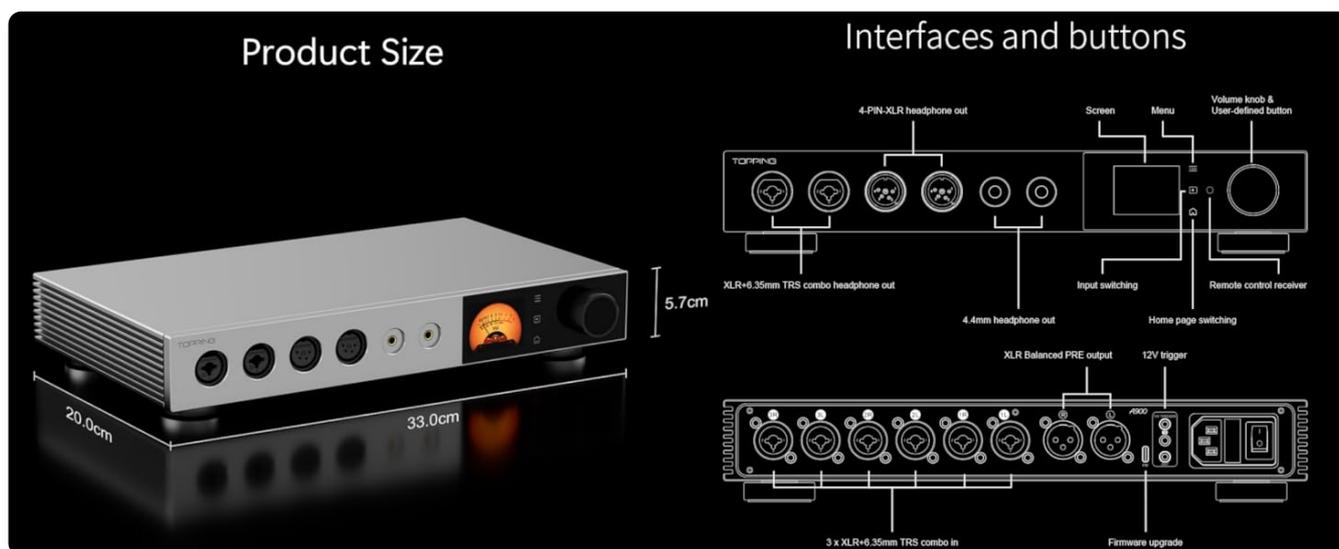


Image: Diagram illustrating the product dimensions and the layout of interfaces and buttons on the front and rear panels of the TOPPING A900.

OPERATING

The TOPPING A900 offers intuitive controls for a seamless audio experience.

Front Panel Controls

- **Volume Knob:** Rotate to adjust the output volume. The precision relay-based volume control ensures smooth and accurate adjustments.
- **Touch Buttons:** Navigate through menus, select inputs, and customize display settings using the touch-sensitive buttons.
- **Display Screen:** The 2-inch full-color screen provides real-time information such as playback status, FFT spectrum, and VU meters.

Six-channel T'ang-ku-la circuit Full-link differential balanced architecture



Independent Preamp



151dB

DNR/SNR New height

22000mW x 2 @16 ohm

Massive output power

<0.00003% @20-20kHz

THD(90kBW) New record

Fully balanced relay volume control

A full range of headphone outputs



Image: Close-up of the TOPPING A900's front panel, highlighting the display screen and control knob.

Display Customization

The A900 allows for extensive display customization:

- **Display Modes:** Switch between playback information, FFT spectrum, and VU meters to monitor audio performance.
- **Background Colors:** Choose from 9 background colors to match your aesthetic preferences.
- **Themes:** Select different display themes for a personalized user interface.

Focus on the music

A900 is TOPPING's brand new ultra-flagship HiFi headphone amplifier, born from our relentless pursuit of ultimate sound quality.

Its refined industrial design perfectly reflects our music-focused philosophy.



Image: Various display customization options shown on the TOPPING A900's screen, including different themes and information displays.

Pure Preamp Mode

The A900 can function as a high-performance preamplifier. To activate this mode, select the appropriate output setting. This mode is ideal for driving power amplifiers or active speakers in a high-fidelity audio chain, offering ultra-low distortion and a clean signal.

CONNECTIONS

The A900 provides a comprehensive array of input and output options for diverse audio setups.

Headphone Outputs (Front Panel)

- **6.35mm Single-Ended:** Standard headphone connection.
- **4.4mm Balanced:** For balanced headphones, offering improved signal integrity.
- **4-pin XLR:** Professional balanced headphone connection.
- **Dual 3-pin XLR:** Additional balanced headphone output options.

TOPPING

Pure Design Superior Performance

A900

Ultra-Flagship Headphone Amplifier



Image: The front panel of the TOPPING A900, showing the various headphone output jacks.

Rear Panel Inputs & Outputs

The rear panel features high-quality Neutrik and Pentaconn connectors for stable and reliable connections.

- **Stereo Combo Balanced Inputs:** Three sets of balanced inputs for connecting various audio sources.
- **Balanced XLR Preamp Output:** For connecting to power amplifiers or active speakers.
- **12V Trigger:** Allows for synchronized power control with other compatible devices.
- **Firmware Upgrade Port:** USB port for future firmware updates.

Optimized T'ang-ku-la amplifier architecture

The T'ang-ku-la architecture adopts a new three-stage feedback circuit (patented technology), effectively reducing circuit noise and high-frequency distortion, thus further enhancing the dynamic range to a **record-breaking 151dB** and the full-band THD (90kW) to **0.00003%**. Additionally, this new technology effectively lowers circuit heat generation, improving reliability and extending service life while minimizing thermal noise. The three T'ang-ku-la modules form a 6-channel fully differential balanced architecture, maintaining full differential balance from source to output, achieving a true full-link differential balanced amplification. The headphone amplifier delivers a driving power of up to 22,000mW (@16Ω).





Image: The rear panel of the TOPPING A900, displaying the balanced inputs, preamp outputs, and other utility ports.

REMOTE CONTROL

The A900 includes a premium CNC-machined aluminum remote control for convenient operation.

- **Full-Function Control:** Adjust volume, switch inputs, navigate menus, and control display settings from a distance.
- **Durable Design:** Crafted from solid aluminum with a sandblasted finish for durability and an elegant feel.

The rear panel features high-quality Neutrik connectors, offering three sets of stereo combo balanced inputs. This design ensures broad compatibility with a wide range of professional audio equipment, catering to both audiophiles and studio users with diverse connectivity needs.



Image: The sleek, CNC-machined aluminum remote control for the TOPPING A900.

ARCHITECTURE AND PERFORMANCE

The A900's internal design is engineered for reference-level sound clarity and headroom.

- **T'ang-ku-la Amplifier Modules:** Patented three-stage feedback circuit effectively reduces circuit noise and high-frequency distortion, enhancing dynamic range and achieving ultra-low THD.
- **6-Channel Fully Differential Architecture:** Ensures a balanced signal path from source to output, delivering clean and distortion-free audio with superior channel separation.
- **Isolated Power Supply:** Dedicated power paths for analog and digital circuits minimize mutual interference,

improving sound purity and dynamic performance.



Image: Close-up view of the T'ang-ku-la amplifier modules inside the TOPPING A900.



Image: Detailed view of the precision relay-based volume control mechanism within the TOPPING A900.



Image: Internal view showing the isolated power supply architecture of the TOPPING A900.

SPECIFICATIONS

Feature	Detail
Product Dimensions	12.99 x 7.87 x 2.24 inches
Item Weight	10.6 pounds
Item Model Number	TP-A900
Manufacturer	TOPPING
Power Output	Up to 22,000mW @ 16Ω

THD+N	0.00003% (Headphone Amp Mode)
Channel Crosstalk	-153dB (Relay Volume Control)
Preamp THD+N	< 0.000055%

MAINTENANCE

To ensure the longevity and optimal performance of your TOPPING A900, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using liquid cleaners or abrasive materials, as they may damage the finish.
- **Ventilation:** Ensure that the ventilation slots on the unit are not obstructed to prevent overheating.
- **Storage:** When not in use for extended periods, store the A900 in a cool, dry place, preferably in its original packaging.
- **Cable Management:** Keep cables organized and free from kinks or excessive tension to prevent damage to connectors and internal wiring.

TROUBLESHOOTING

If you encounter any issues with your TOPPING A900, refer to the following common troubleshooting steps:

- **No Power:**
 - Check if the power cable is securely connected to both the A900 and the power outlet.
 - Ensure the power switch on the rear panel is in the 'ON' position.
 - Verify the power outlet is functional by plugging in another device.
- **No Sound:**
 - Confirm that the correct input source is selected on the A900.
 - Check all audio cable connections between your source, the A900, and your headphones/speakers.
 - Ensure the volume is not set to minimum or muted.
 - Test with different headphones or speakers to rule out faulty output devices.
- **Distorted Sound:**
 - Reduce the input volume from your audio source to prevent clipping.
 - Check for damaged audio cables and replace if necessary.
 - Ensure headphones/speakers are properly connected and not faulty.
- **Remote Control Not Working:**
 - Check and replace the batteries in the remote control.
 - Ensure there are no obstructions between the remote and the A900's IR receiver.

If the issue persists after trying these steps, please contact TOPPING customer support for further assistance.

WARRANTY AND SUPPORT

The TOPPING A900 comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, service, or warranty claims, please contact TOPPING customer service through their official website or authorized distributors. For additional resources, including updated firmware and FAQs, visit the official TOPPING website.

OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video showcasing the TOPPING A900 headphone amplifier, its features, and design.