

Sound Town NTA3.2DSP

Sound Town MODE Audio Network 2-Channel PA/DJ Power Amplifier NTA3.2DSP User Manual

Model: NTA3.2DSP | Brand: Sound Town

1. INTRODUCTION

The Sound Town MODE Audio NTA3.2DSP is a high-performance 2-input, 2-output network power amplifier designed for professional audio applications. It integrates advanced Digital Signal Processing (DSP) and Finite Impulse Response (FIR) filter technology, along with Dante network capabilities, to deliver clear and powerful audio. This amplifier provides 300W RMS per channel at 8Ω and 450W RMS per channel at 4Ω, making it suitable for driving high-end PA speakers and sound systems. This manual provides essential information for the proper setup, operation, and maintenance of your NTA3.2DSP amplifier.

2. FEATURES

- **High-Performance Output:** Delivers 300W RMS at 8Ω and 450W RMS at 4Ω per channel, ideal for professional PA and sound systems.
- **Integrated DSP Control:** Features an intuitive front panel with dedicated controls and an LPS display for real-time monitoring and quick audio adjustments.
- **MCONSOLE PC Software:** Full PC control via USB with no driver installation required, offering efficient preset management and clear audio routing visualization.
- **Advanced FIR Filtering:** Ensures linear phase response, precise filtering, and dynamic EQ for superior noise reduction and refined sound clarity, adjustable through MCONSOLE software.
- **Versatile Connectivity:** Supports analog and Dante network inputs/outputs, constant resistance (8Ω/4Ω), and constant voltage (100V/70V).
- **Third-Party System Integration:** Includes RS232/RS485/GPIO connectors for seamless compatibility with external control systems.
- **Comprehensive Audio Customization:** Offers 15-band PEQ input, 10-band PEQ output, FIR linear phase settings, LPF/HPF types, dynamic EQ, delay, compressor, limiter, and matrix routing.
- **Preset Management:** Up to 30 preset slots, device lock capabilities, and multi-device control for simplified system management.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and in good condition. If any items are missing or damaged, please contact your dealer immediately.

Included in the Box



(1) USB Flash Drive



(1) USB Cable (Type A to Type B)



(1) Power Cord



(1) 8 Pin Phoenix Connector

Figure 3.1: Included in the Box

This image displays the Sound Town NTA3.2DSP amplifier along with its standard accessories. These include a USB flash drive for software and updates, a USB Type-A to Type-B cable for PC connection, a power cord, and an 8-pin Phoenix connector for control system integration.

- Sound Town NTA3.2DSP Power Amplifier
- USB Flash Drive (1)
- USB Cable (Type A to Type B) (1)
- Power Cord (1)
- 8-Pin Phoenix Connector (1)
- User Manual (This document)

4. PRODUCT OVERVIEW

4.1 Front Panel



Figure 4.1: Front Panel Layout

This image shows the front panel of the NTA3.2DSP amplifier. From left to right, it features the power button, a USB port for MCONSOLE DSP software control, individual mute buttons for channels A and B, a central LCD display for status and settings, and a rotary encoder with integrated SELECT and ESC buttons for navigation and parameter adjustment.

- **Power Button:** Turns the unit on or off.
- **USB Port:** Connects to a PC for MCONSOLE DSP software control.
- **Mute Buttons (A/B):** Mutes or unmutes the respective audio output channel.
- **LPS Display:** Shows current status, settings, and menu navigation.
- **Rotary Encoder with SELECT/ESC:** Used to navigate menus, adjust parameters, select options, and exit menus.

4.2 Rear Panel



Figure 4.2: Rear Panel Connections

This image illustrates the rear panel of the NTA3.2DSP amplifier. It includes the AC power inlet, speaker output terminals (Speakon and binding posts), analog audio inputs (XLR and RCA), Dante network ports (Ethernet), and RS232/RS485/GPIO control connectors for external system integration.

- **AC Power Inlet:** Connects to the main power supply using the provided power cord.
- **Speaker Outputs (CH1/CH2):** Speakon and binding post connectors for connecting passive speakers. Supports 8Ω/4Ω constant resistance and 100V/70V constant voltage modes.
- **Analog Inputs (CH1/CH2):** XLR and RCA connectors for traditional audio input sources.
- **Dante Network Ports (Ethernet):** RJ45 connectors for Dante audio networking.
- **RS232/RS485/GPIO:** Connectors for integration with third-party control systems.
- **Link Outputs:** XLR connectors for linking audio to other devices.

5. SETUP

Follow these steps to set up your NTA3.2DSP amplifier for initial use.

1. **Unpacking and Placement:** Carefully remove the amplifier from its packaging. Place the unit on a stable, flat surface or mount it in a standard 19-inch rack. Ensure adequate ventilation around the unit to prevent overheating.
2. **Power Connection:** Connect the provided AC power cord to the AC power inlet on the rear panel of the amplifier, then plug the other end into a suitable power outlet. Ensure the amplifier's power switch is in the OFF position before connecting.
3. **Audio Input Connection:** Connect your audio source (e.g., mixer, audio interface) to the analog inputs (XLR or RCA) on

the rear panel. For Dante network audio, connect an Ethernet cable from your Dante network to the Dante ports.

4. **Audio Output Connection:** Connect your passive speakers to the speaker output terminals (Speakon or binding posts) on the rear panel. Ensure correct polarity and impedance matching (8Ω/4Ω or 100V/70V constant voltage, depending on your speaker system).
5. **Control System Connection (Optional):** If integrating with a third-party control system, connect the RS232/RS485/GPIO cables as required.
6. **PC Connection for DSP (Optional):** For advanced DSP control, connect a USB cable from your PC to the USB port on the front panel. Install the MCONSOLE DSP software on your Windows PC.
7. **Power On:** Once all connections are secure, switch the power button on the front panel to the ON position. The display will illuminate, indicating the unit is operational.

6. OPERATION

6.1 Basic Operation

- **Power On/Off:** Press the power button on the front panel to turn the amplifier on or off.
- **Muting Channels:** Use the dedicated Mute A and Mute B buttons to quickly mute or unmute the respective output channels.
- **Front Panel Navigation:** Use the rotary encoder to scroll through menu options on the LPS display. Press the SELECT button to enter a menu or confirm a selection. Press the ESC button to go back to the previous menu or exit a setting.
- **Volume Adjustment:** Adjust the output volume for each channel using the front panel controls or via the MCONSOLE software.

6.2 MCONSOLE DSP Software

The MCONSOLE DSP software provides comprehensive control over all amplifier parameters, including advanced DSP functions. Connect your PC to the amplifier via the front panel USB port. No drivers are required for Windows operating systems.



'MCONSOLE' PC Software Management System



Figure 6.1: MCONSOLE PC Software Interface

This image displays multiple screenshots of the MCONSOLE PC Software. The interface provides detailed control over the amplifier's DSP functions, including 15-band PEQ input, 10-band PEQ output, FIR linear phase settings, LPF/HPF types, dynamic EQ, delay, compressor, limiter, and matrix routing. It also allows for preset management and device locking.

- **DSP Parameters:** Access and adjust 15-band PEQ input, 10-band PEQ output, FIR linear phase settings, LPF/HPF types, dynamic EQ, delay, compressor, and limiter.
- **Matrix Routing:** Configure flexible audio routing between inputs and outputs.
- **Preset Management:** Create, save, and recall up to 30 custom presets for different applications.
- **Device Lock:** Secure your settings by enabling the device lock feature.
- **Multi-Device Control:** Manage multiple NTA3.2DSP units from a single MCONSOLE interface.

7. SPECIFICATIONS

Feature	Description
---------	-------------

Feature	Description
Model Number	NTA3.2DSP
Channels	2-Channel
Power Output (8Ω)	300W RMS per channel
Power Output (4Ω)	450W RMS per channel
Input/Output Configuration	2-Input, 2-Output
DSP Features	15-band PEQ input, 10-band PEQ output, FIR linear phase settings, LPF/HPF types, dynamic EQ, delay, compressor, limiter, matrix routing
Network Connectivity	Dante, USB for MCONSOLE PC software
Control Interfaces	RS232, RS485, GPIO
Constant Voltage Output	100V/70V
Display	LPS Display
Presets	Up to 30 preset slots

8. TROUBLESHOOTING

If you encounter issues with your NTA3.2DSP amplifier, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power cord is securely connected to both the amplifier and a working power outlet.
 - Check the power switch on the front panel.
 - Verify the power outlet is active.
- **No Sound Output:**
 - Check if the Mute A or Mute B buttons are engaged.
 - Verify that input sources are connected correctly and are sending an audio signal.
 - Ensure speaker cables are properly connected to the amplifier and speakers, and that speaker impedance matches the amplifier's settings.
 - Check volume levels on the amplifier and your audio source.
 - If using Dante, ensure the network connection is active and audio routing is correctly configured in Dante Controller and MCONSOLE.
- **Distorted Sound:**
 - Reduce input gain or output volume to prevent clipping.
 - Check speaker impedance and ensure it is within the amplifier's supported range.
 - Inspect speaker cables for damage or short circuits.
 - Review DSP settings in MCONSOLE for any extreme equalization or compression that might cause distortion.
- **MCONSOLE Software Connection Issues:**

- Ensure the USB cable is securely connected between the amplifier and your PC.
- Try a different USB port on your PC or a different USB cable.
- Restart the MCONSOLE software and the amplifier.

9. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your NTA3.2DSP amplifier.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure that the ventilation openings on the amplifier are not blocked. Proper airflow is crucial to prevent overheating. Regularly check for dust accumulation in the vents and gently clean them if necessary.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power, clean it, and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect all power and audio cables for any signs of wear or damage. Replace damaged cables immediately to prevent electrical hazards or signal loss.

10. WARRANTY AND SUPPORT

Sound Town products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Sound Town website. Do not attempt to service the unit yourself, as this may void your warranty and could result in electrical shock or damage to the unit. For any issues not covered in this manual, please contact Sound Town customer support or your authorized dealer.

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/B0DQTW1NTM>

More documents and user manuals: <https://manuals.plus/>