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## Teac NT-505

# TEAC NT-505 Reference Series Dual-monaural USB DAC/Network Player

MODEL: NT-505

## Introduction

The TEAC NT-505 is a flagship dual monaural USB DAC with versatile network playback capabilities. It incorporates the latest network technologies and TEAC's audio design experience into a compact, A4-sized footprint. This unit is designed for high-resolution audio playback, supporting DSD512 (22.6MHz) and PCM 768kHz/32-bit PCM formats.

It features a dual monaural circuit design with a high-end AKM VERITA AK4497 DAC on each channel, enhancing the signal-to-noise ratio. The NT-505 supports MQA decoding, TIDAL, and Qobuz music subscription services, and is Roon Ready. It also includes dual on-board clocks for precise audio timing and a Bluetooth receiver with LDAC and Qualcomm aptX HD support.



Figure 1: Front view of the TEAC NT-505, showing the display, controls, and headphone output.

## Key Features

- Dual monaural USB DAC/Network Player supporting DSD512 (22.6MHz) and PCM 768kHz/32-bit.
- High-end AKM VERITA AK4497 DAC on each channel for improved S/N ratio.
- Supports MQA decoding and integration with TIDAL and Qobuz music subscription services.
- Roon Ready certification for seamless integration into Roon audio systems.
- Network streaming capabilities for DSD128 (5.6MHz) and PCM 192kHz/24-bit from NAS/PC.
- Equipped with 5 types of PCM digital filters and 2 types of DSD digital filters.
- Up-conversion functionality up to 24.5MHz DSD and 384kHz/32-bit PCM.

- Dual on-board clocks for 44.1kHz and 48kHz frequencies, plus 10MHz external clock input.
- Bluetooth receiver with support for LDAC and Qualcomm aptX HD codecs.
- TEAC-HCLD output buffer circuit and TEAC-QVCS volume control for high-quality sound.
- Dual toroidal-core power transformers for stable power supply.
- Digital Isolator to separate digital and analogue sections, reducing interference.
- 1/4" (6.3mm) stereo TRS jack supporting ground-separate drive for headphones.
- "Bulk Pet" USB transferring technology with four transfer modes.
- USB audio port for Hi-Res audio input from Windows/Mac.
- Coaxial and optical digital inputs on both front and back panels.
- Front USB port for Hi-Res playback directly from a USB flash drive.
- Analogue outputs include balanced XLR and conventional unbalanced RCA.
- High-contrast full-graphic organic EL display with dimmer function.
- Full-metal body construction with an A4-sized footprint.



Figure 2: Internal view showing the high-precision TEAC Reference OCXO clock, contributing to accurate audio timing.



Figure 3: Internal view of the TEAC-HCLD buffer amplifier circuits, designed for enhanced acoustic expression.

## What's in the Box

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Upon opening the package, please ensure all the following items are present:

- TEAC NT-505 Unit
- Remote Controller
- Power Cord
- Owner's Manual (this document)

## Setup

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### 1. Unpacking and Placement

Carefully remove the NT-505 from its packaging. Place the unit on a stable, level surface with adequate ventilation. Ensure there is sufficient space around the unit for heat dissipation.

### 2. Connecting Power

Connect the supplied power cord to the AC IN terminal on the rear panel of the NT-505, then plug the other end into a suitable wall outlet.

### 3. Audio Connections

The NT-505 offers various input and output options:

- **Analogue Outputs:** Use balanced XLR cables for connection to compatible amplifiers or conventional unbalanced RCA cables.
- **Digital Inputs:** Connect digital audio sources using Coaxial or Optical cables to the respective input terminals on the rear or front panel.
- **USB Audio Input:** Connect your Windows PC or Mac to the USB audio port on the rear panel for high-resolution audio playback.
- **Front USB Port:** Insert a USB flash drive into the front USB port for direct playback of Hi-Res audio files.
- **Headphone Output:** Connect headphones to the 1/4" (6.3mm) stereo TRS jack on the front panel.

### 4. Network Connection

For network streaming features (TIDAL, Qobuz, Roon Ready), connect an Ethernet cable from your network router to the LAN port on the rear panel of the NT-505.



*Figure 4: Rear view of the TEAC NT-505, illustrating the comprehensive array of connectivity options including XLR, RCA, USB, Coaxial, Optical, and Ethernet ports.*

## Operating Instructions

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### 1. Power On/Off

Press the POWER switch on the front panel to turn the unit on or off. The display will illuminate upon power-on.

### 2. Source Selection

Rotate the SOURCE knob on the front panel or use the remote control to select the desired input source (e.g., USB, Coaxial, Optical, Network).

### 3. Volume Control

Adjust the volume using the VOLUME knob on the front panel or the volume buttons on the remote control. The current volume level will be shown on the display.

### 4. Network Streaming

Once connected to your network, use the TEAC HR Streamer app (available for iOS/Android devices) to control network

playback, access music services like TIDAL and Qobuz, and stream from your NAS/PC.

### 5. USB Playback

For USB audio from a computer, ensure the appropriate drivers are installed (if required for Windows). For USB flash drive playback, navigate through your music files using the unit's controls or remote.

### 6. Digital Filters and Up-conversion

The NT-505 offers various digital filters for PCM and DSD signals. These can be accessed and configured through the unit's menu system to tailor the sound to your preference. The unit also supports up-conversion of audio signals to higher resolutions.

## Maintenance

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To ensure optimal performance and longevity of your TEAC NT-505, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using abrasive cleaners, solvents, or chemical sprays, as they may damage the finish.
- **Ventilation:** Ensure that the ventilation openings on the unit are not blocked. Proper airflow is crucial to prevent overheating.
- **Power Cord:** Periodically check the power cord for any signs of damage. If damaged, replace it with an approved cord.
- **Storage:** If storing the unit 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.

## Troubleshooting

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If you encounter issues with your NT-505, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cord is securely connected to both the unit and the wall outlet. Verify that the power outlet is functional.
- **No Sound:** Check that the correct input source is selected. Verify that all audio cables (XLR, RCA, Optical, Coaxial) are securely connected. Ensure the volume is not set to minimum or muted. Check connections to your amplifier or active speakers.
- **Network Connection Issues:** Confirm that the Ethernet cable is properly connected to both the NT-505 and your router. Restart your router and the NT-505. Check your network settings and ensure the unit has a valid IP address.
- **USB Playback Problems:** For PC/Mac connection, ensure the correct drivers are installed and selected in your computer's audio settings. For USB flash drives, verify the file format compatibility and that the drive is properly formatted.
- **Distorted Sound:** Check cable connections for looseness or damage. Ensure the source audio file is not corrupted. Verify that the sampling rate and bit depth settings are appropriate for your system.

If the problem persists after attempting these steps, please contact TEAC customer support for further assistance.

## Specifications

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Feature	Specification
Product Dimensions	10 x 11.5 x 3.25 inches
Item Weight	11.86 pounds




Feature	Specification
Manufacturer	TEAC
ASIN	B07MQVSNMX
Item Model Number	NT-505
Date First Available	January 14, 2019

## Warranty and Support

The TEAC NT-505 comes with a manufacturer's warranty. For detailed information regarding the warranty period, coverage, and terms, please refer to the warranty card included with your product or visit the official TEAC website. For technical support, service, or inquiries about your product, please contact TEAC customer service. Contact information can typically be found on the TEAC official website or in the documentation provided with your unit.

## Related Documents - NT-505

	<a href="#">TEAC NT-505/UD-505 Firmware Update Guide</a> Step-by-step instructions for updating the firmware on TEAC NT-505, NT-505-X, UD-505, and UD-505-X audio devices, including driver installation and update procedures.
	<a href="#">TEAC NT-505 USB DAC Network Player Manual</a> Comprehensive user manual for the TEAC NT-505, a flagship dual monaural USB DAC and network player featuring Hi-Res audio playback, MQA decoding, Spotify, TIDAL, Qobuz, and Roon Ready support.
	<a href="#">TEAC NT-505-X USB DAC/</a> TEAC NT-505-X USB DAC/ <div>Bluetooth PC</div>

<div><div>TEAC</div><div>PE-505</div><div>Phono Preamplifier</div><div><div>OWNER'S MANUAL</div><div>MODE D'EMPLOI</div><div>MANUAL DEL USUARIO</div></div><div></div></div>	<p><a href="#">TEAC PE-505 Phono Preamplifier Owner's Manual</a></p> <p>This document is the owner's manual for the TEAC PE-505 Phono Preamplifier, providing detailed instructions on setup, operation, safety precautions, troubleshooting, and specifications.</p>
<div><div>TEAC</div><div>CRX-320</div><div>Dual Alarm Clock FM/AM PLL Radio</div><div></div><div>Instruction Manual</div><div><small>Please refer to the back of this manual for the location of the "Owner's Manual" tab. To get the best performance from your radio, please read this manual.</small></div></div>	<p><a href="#">TEAC CRX-320 Dual Alarm Clock FM/AM PLL Radio: Instruction Manual</a></p> <p>Comprehensive instruction manual for the TEAC CRX-320 Dual Alarm Clock FM/AM PLL Radio. Learn how to set the clock, alarms, use the radio functions, and perform maintenance.</p>
<div><div></div><div>TEAC</div><div>SERVICE MANUAL</div><div>SL-D910</div><div>AM/FM STEREO DIGITAL RADIO WITH CD PLAYER</div><div><div><div>NOTE</div><div><ul style="list-style-type: none"><li>1. Check the power supply voltage.</li><li>2. Check the antenna connection.</li><li>3. Check the speaker connection.</li><li>4. Check the volume level.</li><li>5. Check the tuning.</li><li>6. Check the battery level.</li><li>7. Check the CD player function.</li><li>8. Check the display.</li><li>9. Check the alarm function.</li><li>10. Check the clock function.</li><li>11. Check the auto scan function.</li><li>12. Check the memory function.</li><li>13. Check the preset function.</li><li>14. Check the repeat function.</li><li>15. Check the shuffle function.</li><li>16. Check the random function.</li><li>17. Check the track skip function.</li><li>18. Check the track search function.</li><li>19. Check the track repeat function.</li><li>20. Check the track stop function.</li><li>21. Check the track advance function.</li><li>22. Check the track return function.</li><li>23. Check the track stop and return function.</li><li>24. Check the track stop and advance function.</li><li>25. Check the track stop and return and advance function.</li></ul></div><div>CAUTION</div><div><ul style="list-style-type: none"><li>1. Do not touch the speaker grille.</li><li>2. Do not touch the CD player lens.</li><li>3. Do not touch the display.</li><li>4. Do not touch the buttons.</li><li>5. Do not touch the antenna.</li><li>6. Do not touch the battery cover.</li><li>7. Do not touch the CD player cover.</li><li>8. Do not touch the CD player disc.</li><li>9. Do not touch the CD player disc cover.</li><li>10. Do not touch the CD player disc cover and disc.</li><li>11. Do not touch the CD player disc cover and disc cover.</li><li>12. Do not touch the CD player disc cover and disc cover and disc.</li><li>13. Do not touch the CD player disc cover and disc cover and disc cover.</li><li>14. Do not touch the CD player disc cover and disc cover and disc cover and disc.</li><li>15. Do not touch the CD player disc cover and disc cover and disc cover and disc cover.</li><li>16. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc.</li><li>17. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover.</li><li>18. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc.</li><li>19. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover.</li><li>20. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc.</li><li>21. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover.</li><li>22. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc.</li><li>23. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover.</li><li>24. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc.</li><li>25. Do not touch the CD player disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover and disc cover.</li></ul></div></div></div></div>	<p><a href="#">TEAC SL-D910 Service Manual: AM/FM Stereo Digital Radio with CD Player</a></p> <p>Comprehensive service manual for the TEAC SL-D910 AM/FM Stereo Digital Radio with CD Player, detailing safety information, specifications, adjustment procedures, exploded views, parts lists, PC board layouts, wiring diagrams, and included accessories. This manual is intended for service technicians.</p>