

INSIGNIA NS-HZ313-C

Insignia NS-HZ313-C Optical/Coaxial Digital-to-Analog Audio Converter User Manual

Model: NS-HZ313-C

1. INTRODUCTION

The Insignia NS-HZ313-C Optical/Coaxial Digital-to-Analog Audio Converter is designed to convert digital audio signals from optical (Toslink) or coaxial sources into analog stereo audio. This allows you to connect modern audio devices with digital outputs to older audio systems or headphones that only accept analog RCA inputs. It supports PCM stereo audio format.

This manual provides instructions for setting up, operating, and troubleshooting your digital-to-analog converter.

2. PACKAGE CONTENTS

Please check the package for the following items:

- Insignia NS-HZ313-C Digital-to-Analog Converter
- RCA Stereo Audio Cable
- AC Power Adapter
- Quick Setup Guide (not included in this digital manual)

3. PRODUCT OVERVIEW

Familiarize yourself with the components and connections of your Insignia Digital-to-Analog Converter.



Image 3.1: Front View of the Converter. This image displays the front of the Insignia NS-HZ313-C converter, highlighting the "OPTICAL IN" and "COAXIAL IN" digital audio input ports, and the "L AUDIO R OUT" analog RCA output ports. A green LED indicator is visible, along with text instructing to set the audio device output to "PCM" format.



Image 3.2: Side View of the Converter. This image shows a side view of the Insignia NS-HZ313-C, detailing the DC 5V power input port and the "COAXIAL / OPTICAL" selector switch, which allows users to choose between the two digital input types.

- **Optical In:** Digital audio input port (Toslink).
- **Coaxial In:** Digital audio input port (RCA type).
- **L Audio R Out:** Analog stereo audio output ports (Red for Right, White for Left RCA).
- **DC 5V:** Power input port for the included AC adapter.
- **Coaxial/Optical Switch:** Selects between the coaxial and optical digital audio inputs.
- **LED Indicator:** Illuminates when the device is powered on.

4. SETUP AND CONNECTION

Follow these steps to connect your Insignia Digital-to-Analog Converter:

1. **Prepare your audio source:** Ensure your audio source device (e.g., TV, game console, Blu-ray player) has either an optical (Toslink) or coaxial digital audio output.
2. **Connect Digital Input:**
 - If using an optical cable (not included), connect one end to the optical output of your source device and the other end to the **OPTICAL IN** port on the converter.
 - If using a coaxial cable (not included), connect one end to the coaxial output of your source device and the other end to the **COAXIAL IN** port on the converter.
3. **Connect Analog Output:** Connect the included RCA stereo audio cable to the **L AUDIO R OUT** ports on the converter. Connect the other end of the RCA cable to the corresponding analog audio input ports (typically labeled "Audio In," "Aux In," or "Line In") on your amplifier, receiver, or powered speakers.
4. **Select Input Source:** Use the **COAXIAL/OPTICAL** switch on the side of the converter to select the digital input you are using.
5. **Connect Power:** Plug the AC power adapter into the **DC 5V** port on the converter, then plug the adapter into a standard wall outlet. The LED indicator on the converter should illuminate.
6. **Configure Audio Source:** It is crucial to set your audio source device's digital audio output format to **PCM stereo**. This converter does not support Dolby Digital or DTS formats. Refer to your source device's user manual for instructions on how to change its digital audio output settings.

Important Note: This converter only processes PCM stereo audio. If your source device is set to output Dolby Digital, DTS, or other multi-channel formats, you will not get sound. Always ensure your source device's digital audio output is set to PCM.

5. OPERATION

Once all connections are made and the power is supplied, the converter operates automatically.

- Ensure the **COAXIAL/OPTICAL** switch is set to match your active digital audio input.
- Play audio from your source device.
- Adjust the volume on your connected amplifier, receiver, or powered speakers.

The converter will convert the digital PCM stereo signal to an analog signal, which will then be output through the RCA ports to your analog audio system.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Insignia Digital-to-Analog Converter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosol sprays.
- **Storage:** Store the converter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts.
- **Ventilation:** Ensure the device has adequate ventilation and is not covered, to prevent overheating.

7. TROUBLESHOOTING

If you experience issues with your converter, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No sound output.	No power to the converter. Incorrect input selected. Audio source not set to PCM. Loose or faulty cables. Volume on analog system is too low.	Ensure the AC adapter is securely connected and the LED indicator is on. Verify the COAXIAL/OPTICAL switch matches your input. Check your source device's audio settings and set the digital output to PCM stereo . Ensure all cables (digital input, RCA output) are securely connected. Try different cables if available. Increase the volume on your amplifier, receiver, or powered speakers.
Sound is distorted or intermittent.	Faulty cables. Interference. Incorrect audio format (e.g., multi-channel audio being sent).	Replace digital or RCA cables. Ensure the converter is not placed near devices that emit strong electromagnetic interference. Double-check that your source device's digital audio output is set to PCM stereo .
Converter LED is off.	No power. Faulty power adapter.	Ensure the power adapter is securely plugged into the converter and a working wall outlet. Try a different compatible 5V DC power adapter if available.

If the problem persists after trying these solutions, please contact Insignia customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	NS-HZ313-C
Input	1 x Optical (Toslink), 1 x Coaxial (RCA)
Output	2 x RCA (L/R Stereo Audio)
Supported Audio Format	PCM Stereo (2-channel)
Power Input	DC 5V
Dimensions (H x W x D)	Approximately 6.97 x 4.25 x 2.64 inches (Package Dimensions)
Weight	Approximately 7.2 ounces
Interface Type	Coaxial (for input)
Number of Channels	2 (stereo output)

9. WARRANTY

Insignia products typically come with a limited manufacturer's warranty. For specific warranty terms and conditions, including duration and coverage, please refer to the warranty card included with your product or visit the official Insignia website. Keep your purchase receipt as proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For further assistance, technical support, or service inquiries, please contact Insignia customer support. You can usually find contact information on the official Insignia website or in the documentation that came with your product.

Online Support: Visit www.insigniaproducts.com for FAQs, product registration, and support resources.