

Portta N3CVTRH

Portta Component to HDMI Converter User Manual

Model: N3CVTRH

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Portta Component to HDMI Converter. This device is designed to convert analog YPbPr video and R/L audio signals into a digital HDMI output, allowing older component-enabled devices to connect to modern HDMI displays.

Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

2. KEY FEATURES

- Converts YPbPr analog video and R/L stereo audio to HDMI digital output.
- Supports resolutions up to 1080p at 60Hz, including 480i, 480p, 576i, 576p, 720p, 1080i, and 1080p.
- Supports 24-bit, 30-bit, and 36-bit deep color video formats.
- Supports uncompressed 2-channel LPCM audio.
- High bandwidth of 165 MHz/1.65 Gbps per channel ensures no signal distortion or delay.
- Compatible with a wide range of input devices such as PS2, PS3, PSP, Nintendo Switch, and DVD players.
- Outputs to HDTVs, projectors, and monitors.
- Compact and lightweight design.

3. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package:

- Portta Component to HDMI Converter (Model: N3CVTRH)
- USB Power Cable
- Power Adapter (Type C/EF - European/hybrid FR-DE 2-pin plug)
- User Manual



Image: The Portta Component to HDMI Converter unit, its USB power cable, and the power adapter.

4. PRODUCT OVERVIEW

Familiarize yourself with the ports and indicators on the converter unit.



Image: A diagram illustrating the YPbPr input ports (Green, Blue, Red), R/L audio input ports (White, Red), USB-C power port, and HDMI output port on the converter.

- **YPbPr Input (Green, Blue, Red RCA):** Connect your component video source (e.g., PS2, DVD player).
- **R/L Audio Input (White, Red RCA):** Connect the stereo audio output from your component video source.
- **USB-C Power Port:** Connect the provided USB power cable and adapter for power.
- **HDMI Output:** Connect to your HDMI display (e.g., HDTV, monitor, projector).
- **Power LED:** Indicates the device is powered on.
- **Signal LED:** Indicates a valid input signal is detected.

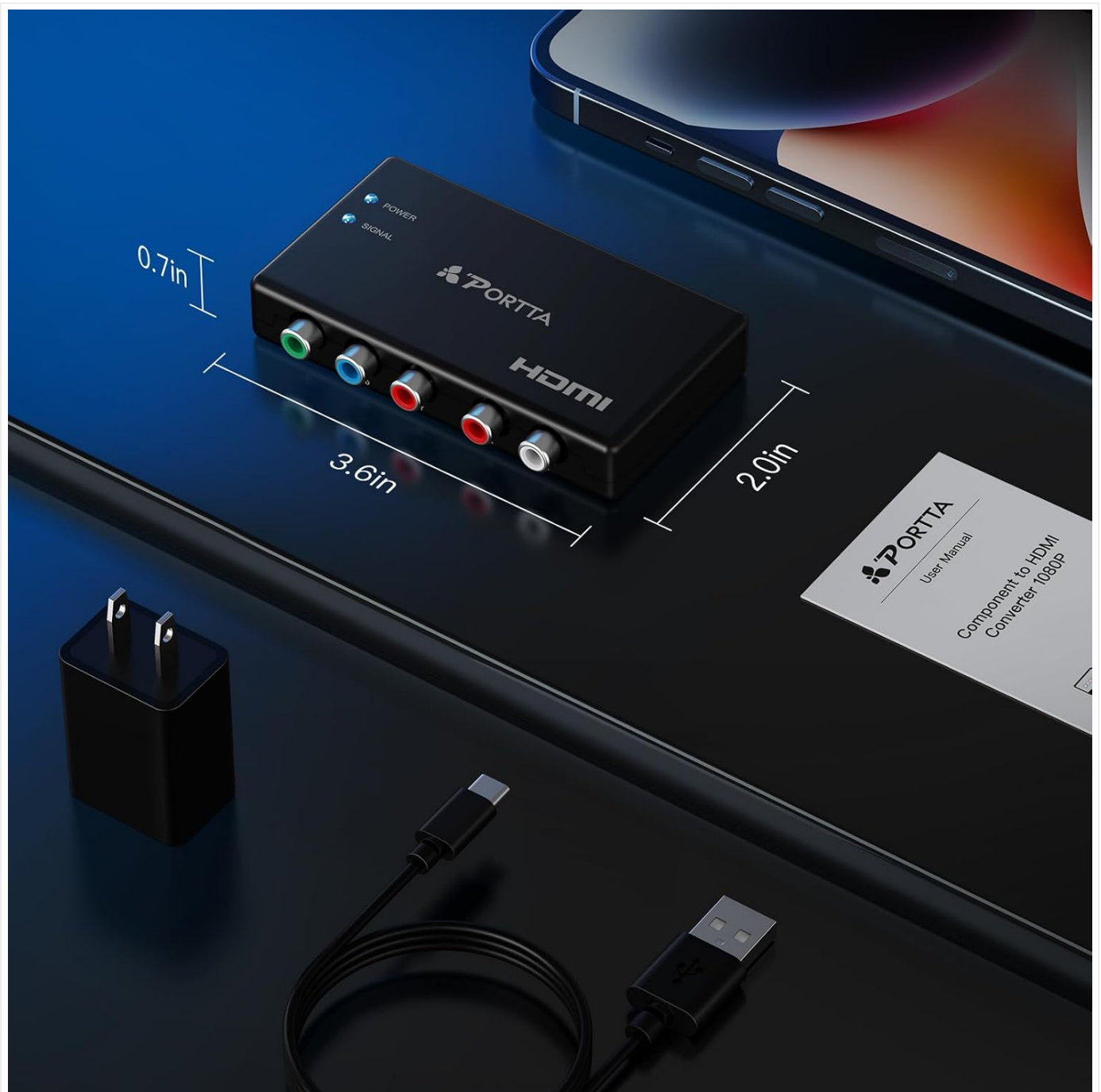


Image: The Portta Component to HDMI Converter shown with its dimensions (approximately 3.6 inches long, 2.0 inches wide, and 0.7 inches high), alongside the power adapter and user manual.

5. SETUP AND INSTALLATION

Follow these steps to connect your Component to HDMI Converter:

1. **Power Off Devices:** Ensure all devices (source, display, and converter) are powered off before making connections.
2. **Connect Component Source:** Connect the YPbPr (Green, Blue, Red) and R/L Audio (White, Red) cables from your source device (e.g., PS2, DVD player) to the corresponding input ports on the Portta converter. Ensure the colors match.
3. **Connect HDMI Display:** Connect an HDMI cable from the HDMI Output port of the converter to an HDMI Input port on your display (e.g., HDTV, monitor, projector).
4. **Connect Power:** Connect the provided USB power cable to the USB-C Power Port on the converter, and then plug the power adapter into a wall outlet. The Power LED on the converter should illuminate.

5. **Power On Devices:** Power on your HDMI display first, then your component source device.
6. **Select Input:** On your HDMI display, select the correct HDMI input source that the converter is connected to.



Image: The Portta Component to HDMI Converter connected between a gaming console (likely PS2 or PS3) and a television, displaying a game. This illustrates a typical setup.

Important Note: This converter is designed for one-way conversion from Component (YPbPr) to HDMI. It **cannot** be used in reverse (HDMI to Component).



Image: A visual warning indicating that the converter cannot be used to convert HDMI signals to Component signals, showing a static-filled old television screen as an example of incorrect usage.

6. OPERATION

Once properly connected and powered on, the converter operates automatically. The Signal LED will illuminate when a valid YPbPr input signal is detected.

- Ensure your source device is outputting a YPbPr signal. Some older devices might have settings to switch between Composite (AV) and Component output.
- The converter supports various resolutions up to 1080p 60Hz. The output resolution will match the input resolution; the converter does not perform scaling.
- For optimal performance, ensure your component cables are securely connected and are not excessively long (recommended length less than 1.8 meters).



Image: A visual representation of compatible input devices for the YPbPr input (PS2, PS3, Xbox 360, IPTV STB, Wii, DVD Player) and compatible output devices for the HDMI output (HDTV, Display, Projector).

7. TROUBLESHOOTING

If you encounter issues, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No picture on display.	◦ No power to converter. ◦ Incorrect input selected on display. ◦ Loose or incorrect cable connections. ◦ Source device not outputting YPbPr signal. ◦ Using Composite (AV) cable instead of Component.	◦ Check power adapter and USB cable connection. Ensure Power LED is on. ◦ Select the correct HDMI input on your TV/monitor. ◦ Ensure all YPbPr, R/L audio, and HDMI cables are securely connected and color-matched. ◦ Verify your source device's video output settings are set to Component (YPbPr). ◦ Ensure you are using a Component (YPbPr) cable, not a Composite (AV) cable.
No audio.	◦ Loose R/L audio connections. ◦ Audio settings on source device.	◦ Check the White and Red R/L audio cables are securely connected. ◦ Verify audio output settings on your source device.
Distorted or discolored picture (e.g., green tint, red tint, black & white).	◦ Missing one or more YPbPr signals. ◦ Damaged component cable.	◦ Ensure all three YPbPr cables (Green, Blue, Red) are correctly and securely connected. ◦ Try a different component cable if available.
Picture is noisy or has interference.	◦ Excessively long component cable. ◦ Signal interference.	◦ Use a shorter component cable (recommended less than 1.8 meters). ◦ Ensure cables are not near strong electromagnetic interference sources.

8. SPECIFICATIONS

Feature	Detail
Model Number	N3CVTRH
Input Ports	1x YPbPr (Component Video), 1x R/L (Stereo Audio)
Output Ports	1x HDMI
Supported Input Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p @ 60Hz
Supported Video Color Format	24-bit / 30-bit / 36-bit Deep Color
Supported Audio Format	2-channel uncompressed LPCM

Feature	Detail
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Max Bandwidth	1.65 Gbps / 165 MHz
Power Supply	USB Power (5V DC) via USB-C port
Dimensions (L x W x H)	9 x 6 x 2 cm (approx. 3.6 x 2.0 x 0.7 inches)
Weight	58 Grams
Operating Temperature	0°C to +70°C (32°F to +158°F)
Operating Humidity	10% to 85% RH (non-condensing)

9. CARE AND MAINTENANCE

To ensure the longevity and optimal performance of your Portta Component to HDMI Converter, please follow these guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surface of the device. Do not use liquid or aerosol cleaners.
- **Environment:** Keep the device away from excessive heat, humidity, dust, and direct sunlight. Ensure adequate ventilation.
- **Handling:** Avoid dropping or subjecting the device to strong impacts. Do not attempt to disassemble or modify the converter, as this will void the warranty.
- **Power:** Use only the provided power adapter and USB cable. Disconnect power during lightning storms or when unused for long periods.

10. WARRANTY AND SUPPORT

Portta offers a **2-year warranty** for this product from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage caused by:

- Accident, abuse, misuse, or neglect.
- Unauthorized repairs or modifications.
- Improper installation or operation not in accordance with this manual.
- External causes such as power surges or natural disasters.

For warranty claims or technical support, please contact Portta customer service. Please have your purchase receipt and product model number (N3CVTRH) ready when contacting support.

You can visit the official Portta store on Amazon for more information:[Portta Amazon Store](#)

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

Answered questions about this manual

I purchased a Portta N3CVTRH Component to HDMI Converter to connect my laserdisc player to my 4K TV, but the picture is only in black and white. I checked the connections and changed the component cable, but it did not fix the problem. Any suggestions?

A black and white picture when using the Portta N3CVTRH Component to HDMI Converter usually indicates that the converter is receiving a Composite signal instead of a Component signal, or one of the color-coded...

[Read full answer](#)