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› Rybozen PS2 to HDMI Converter Adapter (M209) User Manual

Rybozen M209

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Model: M209

1. INTRODUCTION

Thank you for choosing the Rybozen PS2 to HDMI Converter Adapter. This device is designed to convert the analog YPbPr signal from your PlayStation 2 console into a digital HDMI signal, allowing you to connect your PS2 to modern HDTVs, monitors, or projectors that only support HDMI input. It provides advanced signal processing with great precision, colors, and resolution, ensuring a better gaming experience.



Figure 1: Rybozen PS2 to HDMI Converter Adapter with included USB power cable.

2. PRODUCT OVERVIEW

2.1. Components

The Rybozen PS2 to HDMI Converter Adapter includes the main converter unit and a USB power cable.



Figure 2: Labeled diagram of the converter's ports, including PS2 YPbPr Input, USB 5V Input, HDMI Output, and 3.5mm Audio Output.

- **PS2 YPbPr Input:** Connects directly to the PS2 console's A/V output port.
- **USB 5V Input:** Provides power to the converter, typically from a PS2 USB port.
- **HDMI Output:** Connects to your HDMI display (TV, monitor, projector).
- **3.5mm Audio Output:** For optional external audio connection.

2.2. Key Features

- **High Performance:** Outputs video and audio in full digital HDMI format with no transmission loss.
- **Supports All PS2 Display Modes:** Compatible with 480i, 576i, and 480p resolutions.
- **Advanced Signal Processing:** Provides precise colors and resolution, ensuring a stable and clear picture.
- **Easy Operation:** Plug and play functionality.
- **USB Cable Powered:** No external power adapter needed; powered directly from the PS2 USB port.

- **Compact Size:** Easy to carry and integrate into your setup.
- **Universal Compatibility:** Works with HDTVs, HDMI monitors, and projectors.

Universal Compatible

From PS2 device to HDMI display



Input Device

Playstation2



Input Device

TV / Monitor / Projector



Figure 3: Diagram illustrating the universal compatibility from PS2 to HDMI display.



Figure 4: This converter is designed specifically for the PlayStation 2 console and is not compatible with PS1, PS3, or PS4.

3. SETUP INSTRUCTIONS

Follow these steps to connect your Rybozen PS2 to HDMI Converter Adapter:

1. **Prepare your PS2:** Ensure your PlayStation 2 console is powered off.
2. **Connect the Converter:** Plug the PS2 YPbPr input end of the Rybozen converter directly into the A/V Multi Out port on the back of your PlayStation 2 console.
3. **Connect HDMI Cable:** Connect one end of an HDMI cable (not included) to the HDMI Output port on the converter and the other end to an available HDMI input on your HDTV, monitor, or projector.
4. **Provide Power:** Connect the included USB power cable from the converter's USB 5V Input port to an available USB port on your PS2 console. This provides the necessary power for the converter.
5. **Configure PS2 Settings (Important):**
Before powering on, it is crucial to configure your PS2's video output settings.
 - Power on your PS2 with your old A/V cables connected to a display (if possible).

- Navigate to the PS2 System Configuration menu.
- Select "Component Video Out" (or "Video Output" depending on your PS2 model).
- Change the setting from "RGB" to "Y Cb/Pb Cr/Pr". This is essential for the converter to function correctly.
- Save the settings and power off your PS2.

If you cannot access the PS2 menu with old cables, you may need to connect the converter and try different display modes on your TV or monitor until a picture appears, then adjust the PS2 settings.

6. **Power On:** Power on your PlayStation 2 console and switch your display's input to the corresponding HDMI port.



Figure 5: Visual representation of the plug-and-play connection from PS2 to HDMI display with audio output.

4. OPERATING INSTRUCTIONS

Once the setup is complete and your PS2's video output is correctly configured to "Y Cb/Pb Cr/Pr", the Rybozen PS2 to HDMI Converter Adapter operates automatically.

- Simply power on your PlayStation 2 console.
- Ensure your display device (TV, monitor, projector) is set to the correct HDMI input source.
- The video and audio from your PS2 will be automatically converted and displayed on your HDMI screen.
- If you wish to use external speakers, connect them to the 3.5mm audio output jack on the converter.

5. TROUBLESHOOTING

If you encounter issues while using the Rybozen PS2 to HDMI Converter, please refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
No video output / Black screen	• PS2 video output setting is incorrect (RGB instead of Y Cb/Pb Cr/Pr). • Converter is not receiving power. • Loose or faulty HDMI cable connection. • Incorrect HDMI input selected on display.	• Ensure PS2 "Component Video Out" is set to "Y Cb/Pb Cr/Pr" in system settings. • Verify the USB power cable is securely connected to the converter and a powered PS2 USB port. • Check and re-seat all HDMI connections. Try a different HDMI cable. • Cycle through HDMI inputs on your TV/monitor.
No audio output	• HDMI audio not recognized by display. • External audio device not connected or configured correctly.	• Check your TV/monitor's audio settings. • If using the 3.5mm audio output, ensure external speakers/headphones are properly connected and powered.
Fuzzy, blurry, or distorted picture	• PS2 video output setting is incorrect. • Display resolution scaling issues.	• Double-check PS2 "Component Video Out" is set to "Y Cb/Pb Cr/Pr". • While the converter provides advanced processing, final image quality depends on your display's definition and scaling capabilities.
Converter not powering on	• USB power cable not connected or faulty. • PS2 USB port not providing sufficient power.	• Ensure the USB cable is firmly connected to both the converter and the PS2. • Try a different USB port on the PS2 if available.

6. SPECIFICATIONS

Feature	Detail
Model Number	M209
Input Port	PS2 YPbPr Multi Out
Output Ports	HDMI, 3.5mm Audio Jack
Supported PS2 Display Modes	480i, 576i, 480p

Feature	Detail
Power Supply	USB 5V (via PS2 USB port)
Color	Black
Dimensions (L x W x H)	61mm x 34mm x 13mm (approx. 2.4 x 1.34 x 0.51 inches)
Item Weight	2.12 ounces (approx. 60 grams)

Only Support PS2 Game Console



Figure 6: Diagram showing the product dimensions in millimeters.

7. MAINTENANCE

The Rybozen PS2 to HDMI Converter Adapter requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the surface of the converter. Do not use liquid cleaners or aerosols.

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Rybozen website. Please have your model number (M209) and purchase details ready when contacting support.

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