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> [Portta 4-Port HDMI Switcher Box v2.0 User Manual](#)

PORTTA N2SW4PT

Portta 4-Port HDMI Switcher Box v2.0 User Manual

Model: N2SW4PT

PRODUCT OVERVIEW

The Portta 4-Port HDMI Switcher Box v2.0 is designed to expand your HDMI input capabilities, allowing you to connect multiple HDMI source devices to a single HDMI display. This device supports advanced video and audio features, ensuring high-quality signal transmission.



Front view of the Portta 4-Port HDMI Switcher Box v2.0, showcasing its compact design and front panel controls.

Key Features

- Supports HDMI 2.0 Specification, including 4K@60Hz resolution.
- Compatible with HDCP 2.2, 12-bit Deep Color, Full 3D, and HDR.
- Features Audio Return Channel (ARC) functionality.
- Audio separation via Optical (TOSLINK) and Coaxial outputs.
- Automatic switching to the active input source.
- Includes an infrared remote control for convenient operation.

- Supports uncompressed (LPCM 7.1) and compressed audio formats (DTS/DTS-HD Master Audio, Dolby TrueHD).

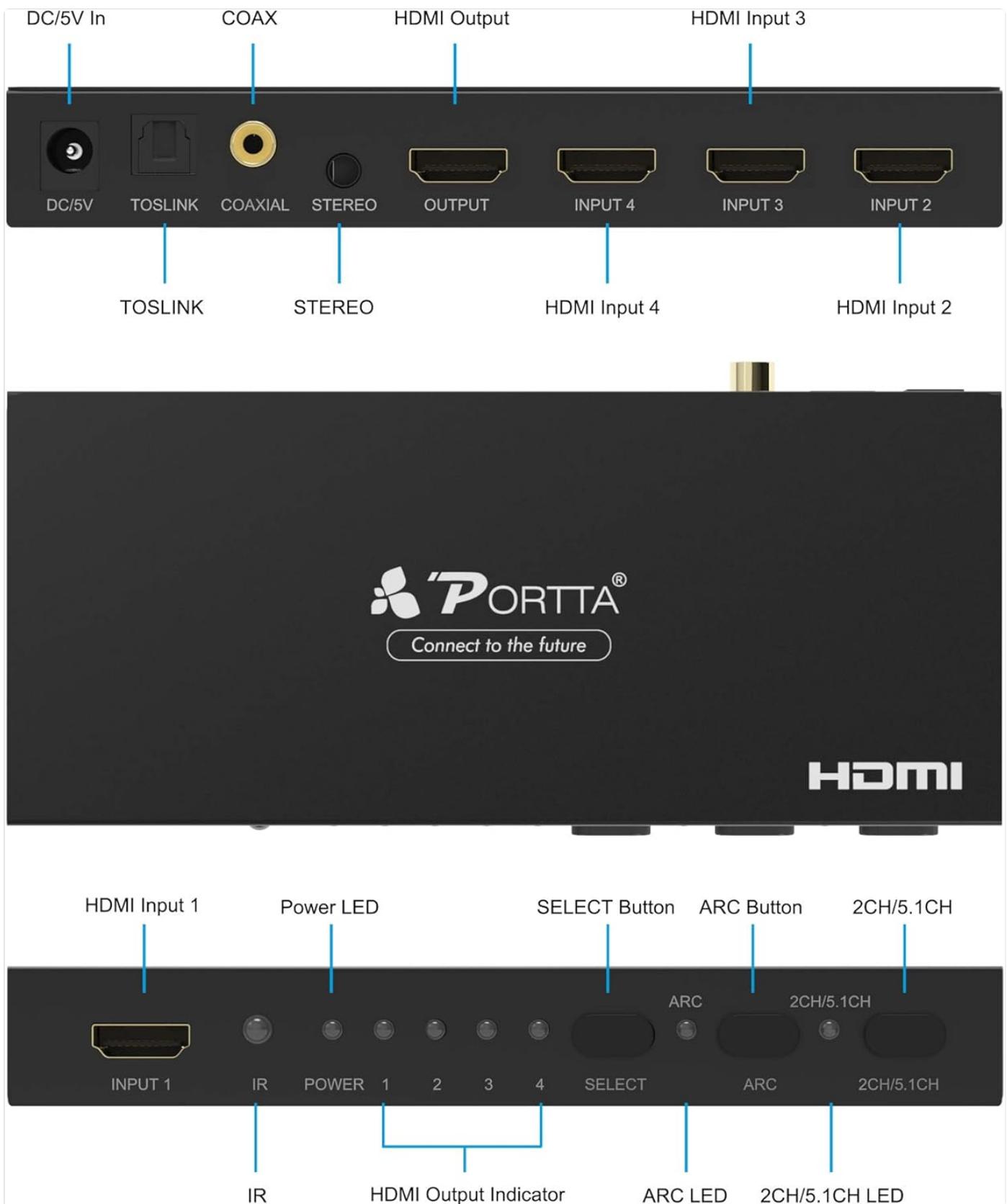
PACKAGE CONTENTS

Please verify that all items are present in the package before proceeding with installation.

- Portta 4x1 HDMI Intelligent Switch x 1
- 5V DC Power Adaptor x 1
- Remote Control x 1
- User Manual x 1 (This document)
- Warranty Card x 1

PRODUCT DIAGRAM

Familiarize yourself with the ports and indicators on your Portta HDMI Switcher.



Detailed diagram showing the front and back panels of the Portta HDMI Switcher, with labels for all inputs, outputs, and controls.

Front Panel

- **INPUT 1:** Front HDMI input port for quick connections.
- **IR:** Infrared receiver for the remote control.
- **POWER LED:** Indicates power status.
- **1, 2, 3, 4 LEDs:** Indicate the currently selected HDMI input.
- **SELECT Button:** Press to cycle through HDMI inputs.

- **ARC Button:** Activates/deactivates Audio Return Channel.
- **2CH/5.1CH Button:** Selects audio output mode (Stereo or 5.1 Channel).

Rear Panel

- **DC/5V In:** Power input port for the included 5V DC power adaptor.
- **TOSLINK:** Optical audio output for connecting to an audio receiver or soundbar.
- **COAXIAL:** Coaxial audio output for connecting to an audio receiver or soundbar.
- **STEREO:** 3.5mm stereo audio output.
- **HDMI Output:** Connects to your display (TV, monitor, projector).
- **HDMI Input 2, 3, 4:** Rear HDMI input ports for source devices.

SETUP AND CONNECTION

Follow these steps to set up your Porta HDMI Switcher.

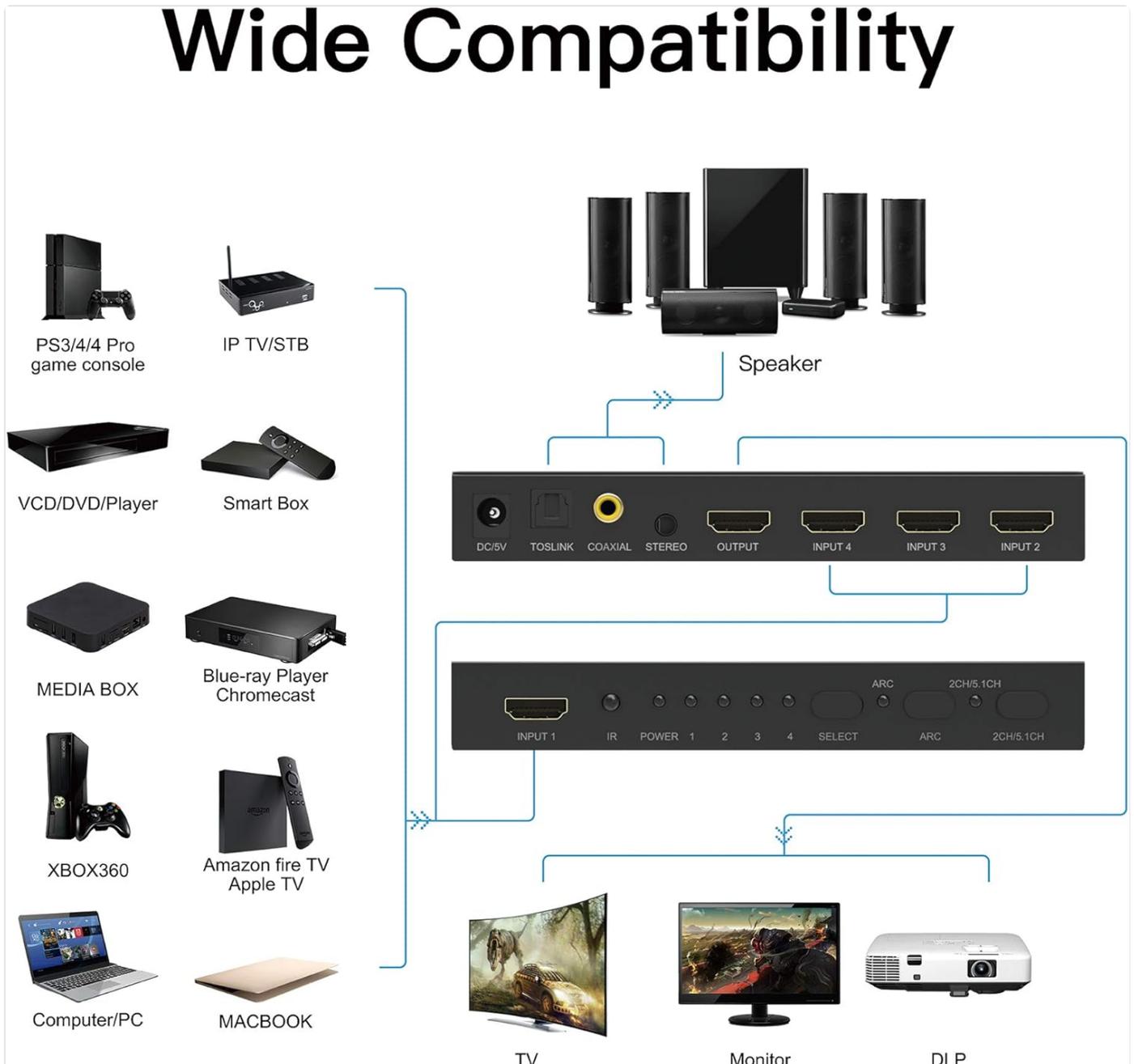


Diagram illustrating various connection scenarios for the Porta HDMI Switcher, including gaming consoles, media players, and computers connected to a TV, monitor, or projector.

1. **Power Off Devices:** Ensure all HDMI source devices (e.g., PS4, Xbox, Blu-ray player) and your display are powered off before making connections.
2. **Connect HDMI Sources:** Connect your HDMI source devices to the HDMI Input ports (INPUT 1, INPUT 2, INPUT 3, INPUT 4) on the Portta HDMI Switcher using high-quality HDMI 2.0 cables.
3. **Connect to Display:** Connect the HDMI Output port of the Portta HDMI Switcher to the HDMI input of your display (TV, monitor, projector) using an HDMI 2.0 cable.
4. **Connect Audio (Optional):** If you wish to extract audio, connect the TOSLINK or COAXIAL output of the switcher to your audio receiver, soundbar, or amplifier. For stereo audio, use the STEREO 3.5mm output.
5. **Connect Power:** Plug the included 5V DC Power Adaptor into the DC/5V In port on the switcher, then plug the adaptor into a power outlet. The POWER LED on the front panel will illuminate.
6. **Power On Devices:** Power on your display first, then power on your HDMI source devices.

OPERATING INSTRUCTIONS

Learn how to use your Portta HDMI Switcher for seamless operation.

Switching Inputs

- **Manual Switching:** Press the **SELECT** button on the front panel to cycle through the connected HDMI input sources (1, 2, 3, 4). The corresponding LED will light up to indicate the active input.
- **Remote Control Switching:** Use the numbered buttons (1, 2, 3, 4) on the remote control to directly select the desired HDMI input.
- **Automatic Switching:** The switcher has a pre-programmed automatic switch function. It will automatically switch to the next active input source when the current one is powered off. It also switches to the last selected source input upon restart. To disable this feature, press and hold the "SELECT" button on the product for 5 seconds.

Audio Features (ARC & Separation)

Support Audio Extractor and Audio Return Channel



Illustration of the Portta HDMI Switcher's audio extraction capabilities, showing how audio can be routed to external speakers or sound systems via TOSLINK or Coaxial outputs.

- **Audio Return Channel (ARC):** If your display supports ARC, connect its ARC-enabled HDMI port to the HDMI Output of the switcher. Press the **ARC** button on the front panel or remote to enable/disable ARC. When enabled, audio from your TV's built-in tuner or smart apps can be sent back to the switcher and then output via the TOSLINK or Coaxial ports to your audio system.
- **Audio Separation:** The switcher can extract audio from the HDMI signal and output it simultaneously via the TOSLINK, Coaxial, or STEREO ports. This allows you to connect your audio system independently of your display.
- **Audio Mode Selection:** Use the **2CH/5.1CH** button on the front panel or remote to select between 2-channel stereo audio or 5.1 channel surround sound output for the extracted audio. Ensure your source content and audio system support the selected mode.

MAINTENANCE

To ensure the longevity and optimal performance of your Portta HDMI Switcher, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosol sprays, as they may damage the unit.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any

ventilation openings.

- **Environment:** Keep the device away from direct sunlight, heat sources, excessive humidity, and dust.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Power:** Always use the provided 5V DC power adaptor. Disconnect power during lightning storms or when unused for long periods.

TROUBLESHOOTING

If you encounter issues with your Portta HDMI Switcher, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No picture or distorted picture on display.	Loose cable connections; Incorrect input selection; Incompatible resolution/refresh rate; HDCP handshake issue; Low quality HDMI cables.	<ul style="list-style-type: none">• Check all HDMI cables are securely connected.• Ensure the correct input is selected on the switcher and your display.• Try a different HDMI input on your display.• Power cycle all devices (switcher, source, display).• Use certified high-speed HDMI 2.0 cables, especially for 4K@60Hz.• Temporarily lower the resolution or refresh rate of the source device.
No audio or distorted audio.	Incorrect audio settings; Loose audio cable; Incompatible audio format; ARC not enabled/configured.	<ul style="list-style-type: none">• Verify audio cables (TOSLINK, Coaxial, Stereo) are connected correctly.• Ensure the audio output mode (2CH/5.1CH) on the switcher matches your audio system's capabilities and source content.• Check audio settings on your source device and display.• If using ARC, ensure it's enabled on both the switcher and your TV.
Remote control not working.	Dead battery; Obstruction; IR receiver blocked.	<ul style="list-style-type: none">• Replace the battery in the remote control.• Ensure there are no obstructions between the remote and the switcher's IR receiver.• Point the remote directly at the IR receiver on the front panel.

Problem	Possible Cause	Solution
Automatic switching not working as expected.	Feature disabled; Source device not fully powering off.	<ul style="list-style-type: none"> • Ensure the automatic switching feature is enabled (not held for 5 seconds). • Some source devices may not fully power off, keeping the HDMI signal active. Manually switch in such cases.

SPECIFICATIONS

Detailed technical specifications for the Portta 4-Port HDMI Switcher Box v2.0.



Image showing the dimensions of the Portta HDMI Switcher (154mm x 69mm x 23mm) and highlighting the 5-year warranty.

Feature	Detail
Model	N2SW4PT

Feature	Detail
HDMI Version	HDMI 2.0
HDCP Version	HDCP 2.2
Max Resolution	4K@60Hz
Color Depth	12-bit per channel (36-bit all channels) Deep Color
Bandwidth	600MHz/6Gbps per channel (18Gbps all channels)
3D Support	Yes
HDR Support	Yes
Audio Return Channel (ARC)	Yes
Audio Outputs	Optical (TOSLINK), Coaxial, 3.5mm Stereo
Supported Audio Formats	DTS, Dolby Digital (including DTS-HD Master Audio and Dolby TrueHD), LPCM 7.1
Power Supply	5V DC Power Adaptor (included)
Dimensions (L x W x H)	15.4 x 6.9 x 2.3 cm (approx. 6.06 x 2.72 x 0.91 inches)
Weight	286 grams (approx. 0.63 lbs)
Compatible Devices	Television, DVD Player, PS3/4/4 PRO, Xbox One, Roku, Apple TV, Fire TV, PC/Notebook, Macbook, STB, Blu-ray Player, Chromecast

WARRANTY AND SUPPORT

Portta provides comprehensive support for its products.

Warranty Information

This Portta HDMI Switcher comes with a **5-Year Worry-Free Warranty**. Please refer to the included Warranty Card for detailed terms and conditions. Retain your proof of purchase for warranty claims.

Customer Support

If you have any questions, require technical assistance, or experience issues not covered in this manual, please contact Portta customer support. Contact information can typically be found on the Portta website or on the Warranty Card included with your product.

