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› OREI BK-401 8K 4x1 HDMI 2.1 Switch User Manual

OREI BK-401

OREI BK-401 8K 4x1 HDMI 2.1 Switch User Manual

Model: BK-401

1. Introduction

The OREI BK-401 is an advanced 8K 4x1 HDMI 2.1 Switch designed to connect up to four HDMI source devices to a single HDMI display. This switcher supports high-resolution video up to 8K@60Hz and 4K@120Hz, ensuring optimal performance for modern entertainment systems and gaming consoles. It is compliant with HDMI 2.1 and HDCP 2.3/2.2/1.4 standards, and supports various advanced video features including HDR10+, HDR10, Dolby Vision, HLG, Variable Refresh Rate (VRR), Auto Low-Latency Mode (ALLM), and Fast VActive (FVA) function with a 48Gbps video bandwidth.
This manual provides detailed instructions for setting up, operating, and maintaining your OREI BK-401 HDMI Switch.

2. Package Contents

Please verify that all items are included in your package:

- 1x OREI BK-401 HDMI Switcher Unit
- 1x 5V/1A Power Supply
- 1x IR Remote Control
- 1x User Manual (this document)

Note: HDMI cables are not included and must be purchased separately. For optimal performance with resolutions like 8K@60Hz or 4K@120Hz, ensure you use certified Ultra High Speed HDMI cables.

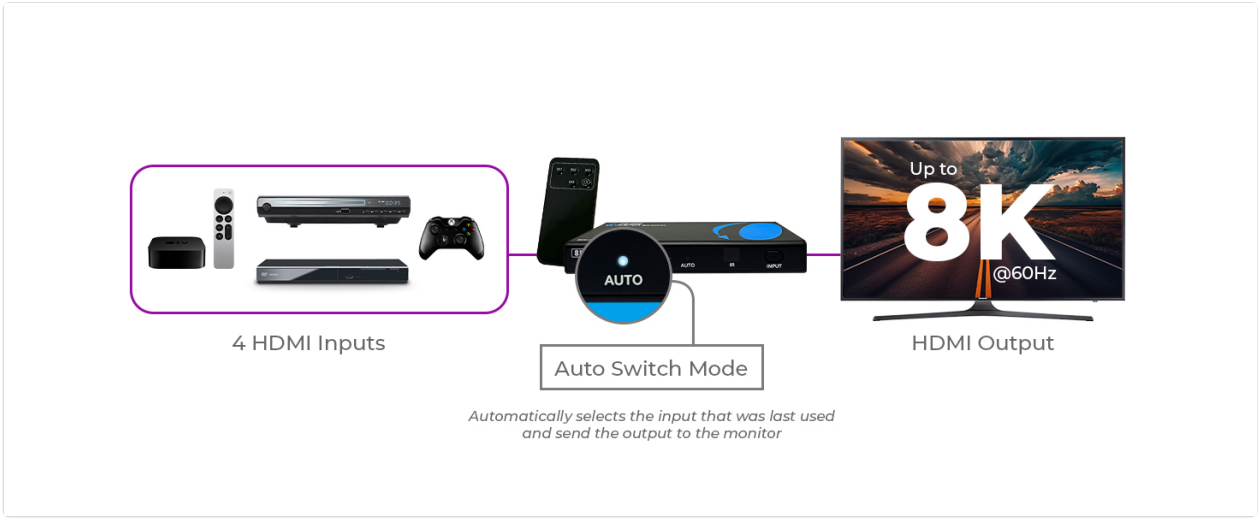

Figure 2.1: Package Contents. The image displays the BK-401 switch, its power adapter, the remote control, and a user manual icon, indicating what is included in the product package.

3. Product Overview

Figure 3.1: OREI BK-401 HDMI Switch and Remote Control. This image provides a general overview of the device and its included remote.

3.1 Front Panel

Figure 3.2: Front Panel of the BK-401 Switch. This image highlights the power button, LED indicators for inputs 1-4 and Auto mode, the IR receiver window, and the manual input select button.

- **Power Button:** Press to turn the unit on or off.
- **Input Indicators (1-4, AUTO):** LEDs illuminate to show the currently selected HDMI input or if Auto-switching is active.
- **IR Receiver:** Receives signals from the included IR remote control. Ensure a clear line of sight.
- **INPUT Button:** Press to manually cycle through the HDMI input sources.

3.2 Rear Panel

Figure 3.3: Rear Panel of the BK-401 Switch. This image shows the DC 5V power input port and the four HDMI input ports labeled INPUT 1 through INPUT 4.

- **DC 5V:** Power input port. Connect the included 5V/1A power adapter here.
- **INPUT 1-4:** HDMI input ports. Connect your HDMI source devices (e.g., PS5, Xbox, Blu-ray player) to these ports.

3.3 Side Panel (HDMI Output)

The HDMI output port is located on one of the side panels of the device.

- **HDMI OUT:** Connect this port to your HDMI display (e.g., TV, projector, monitor).

3.4 IR Remote Control

Figure 3.4: IR Remote Control. The remote features buttons for direct input selection (IN1, IN2, IN3, IN4) and a cycle button to switch between inputs sequentially.

- **IN1, IN2, IN3, IN4 Buttons:** Press to directly select the corresponding HDMI input source.
- **Cycle Button:** Press to switch to the next available HDMI input sequentially.

4. Setup Instructions

Follow these steps to connect your OREI BK-401 HDMI Switch:

1. **Power Off Devices:** Ensure all HDMI source devices (e.g., gaming consoles, Blu-ray players) and your display (TV, monitor) are powered off before making any connections.
2. **Connect HDMI Sources:** Connect up to four HDMI source devices to the HDMI INPUT 1, INPUT 2, INPUT 3, and INPUT 4 ports on the rear panel of the BK-401 switch using high-quality HDMI cables.
3. **Connect to Display:** Connect one end of an HDMI cable to the HDMI OUT port on the side of the BK-401 switch and the other end to an HDMI input port on your display.
4. **Connect Power:** Plug the included 5V/1A power adapter into the DC 5V port on the rear panel of the BK-401 switch, then plug the adapter into a power outlet. The power LED on the front panel should illuminate.

5. **Power On Devices:** Power on your HDMI display, then power on your HDMI source devices.

Figure 4.1: Connection Diagram. This diagram illustrates connecting multiple HDMI input devices (Xbox, Apple TV, Blu-ray player) to the BK-401 switch, which then connects to a single HDMI output display.

For cable lengths exceeding 25 feet, OREI recommends using fiber optic HDMI cables to maintain signal integrity and performance, especially for 8K resolutions.

5. Operating Instructions

The OREI BK-401 HDMI Switch offers both manual and automatic switching options.

5.1 Manual Switching

- **Using the Front Panel Button:** Press the "INPUT" button on the front panel of the BK-401 switch to cycle through the connected HDMI input sources (Input 1 → Input 2 → Input 3 → Input 4 → Input 1...). The corresponding LED indicator will light up.
- **Using the IR Remote Control:**
  - Press the specific input button (IN1, IN2, IN3, or IN4) on the remote control to directly select the desired HDMI source.
  - Alternatively, press the "Cycle" button on the remote to switch to the next active input.

5.2 Automatic Switching

The BK-401 switch supports automatic input detection. When a new HDMI source device is powered on or connected, the switch will automatically detect the signal and switch to that input. If the currently active source is powered off, the switch will attempt to find the next active input.

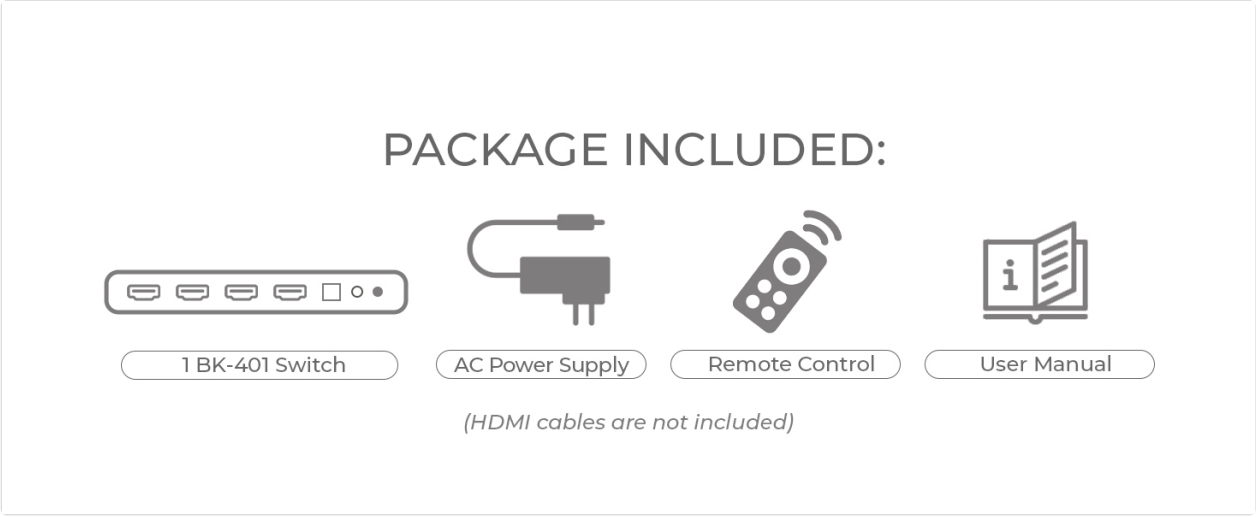

Figure 5.1: Auto Switch Mode. This diagram shows how the switch automatically selects an input when a new source becomes active, sending the signal to the display.

The auto-switching feature may vary in responsiveness depending on the connected source devices and their power-on/off behavior.

6. Troubleshooting

If you encounter issues with your OREI BK-401 HDMI Switch, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No picture or distorted image on display.	◦ Loose HDMI cable connections. ◦ Incorrect input selected. ◦ Incompatible HDMI cable (not 2.1 certified for high resolutions). ◦ Power issue with the switch or source/display.	◦ Ensure all HDMI cables are securely connected. ◦ Manually select the correct input using the front panel button or remote. ◦ Replace HDMI cables with certified Ultra High Speed HDMI 2.1 cables, especially for 8K/4K@120Hz. ◦ Verify the power adapter is correctly connected and the switch is powered on. Try power cycling all devices.
No audio.	◦ Audio settings on source or display. ◦ HDMI cable issue.	◦ Check audio output settings on your source device and input settings on your display. ◦ Ensure HDMI cables are fully seated.
Remote control not working.	◦ Battery depleted. ◦ Obstruction between remote and switch. ◦ Remote not pointed correctly.	◦ Replace the remote control battery. ◦ Ensure a clear line of sight between the remote and the IR receiver on the switch. ◦ Point the remote directly at the switch's IR receiver.
Auto-switching is inconsistent.	◦ Source device behavior. ◦ Multiple sources active simultaneously.	◦ Some devices may not send a consistent "active" signal. Try manually switching. ◦ Ensure only one source is active at a time for reliable auto-switching.

7. Specifications

Feature	Detail
Model	BK-401
HDMI Version	HDMI 2.1
HDCP Compliance	HDCP 2.3/2.2/1.4
Video Bandwidth	48Gbps
Max Resolution	8K@60Hz, 4K@120Hz, 1080p@240Hz
Color Depth	8-bit, 10-bit, 12-bit
HDR Support	HDR10+, HDR10, Dolby Vision, HLG
Advanced Gaming Features	VRR (Variable Refresh Rate), ALLM (Auto Low-Latency Mode), FVA (Fast VActive)
Input Ports	4 x HDMI Type A
Output Ports	1 x HDMI Type A
Switching Method	Manual (Button), IR Remote, Auto-switching
Power Supply	DC 5V/1A
Product Dimensions (L x W x H)	4.75 x 2.5 x 0.5 inches (12.07 x 6.35 x 1.27 cm)
Item Weight	9.9 ounces (280.66 grams)
Enclosure Material	Heavy Duty Plastic
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

Figure 7.1: Technical Specifications and Dimensions. This image visually represents the compact size and weight of the BK-401 switch, along with its key technical features.

8. Maintenance

To ensure the longevity and optimal performance of your OREI BK-401 HDMI Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols, 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:** Avoid exposing the switch to extreme temperatures, humidity, dust, or direct sunlight.
- **Cable Management:** Keep HDMI cables organized and free from kinks or excessive bending to prevent signal degradation.
- **Power Disconnection:** Disconnect the power adapter from the wall outlet if the device will not be used for an extended period.

9. Warranty and Support

The OREI BK-401 HDMI Switch comes with a **1-Year Full Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures that your product functions as intended under normal use.

OREI also provides **Lifetime Technical Support** for this product. If you encounter any issues or have questions regarding the setup, operation, or troubleshooting of your device, please contact OREI customer support.
For warranty claims or technical assistance, please visit the official OREI website or refer to the contact information provided with your product packaging.

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Specifications are subject to change without notice.

Related Documents - BK-401

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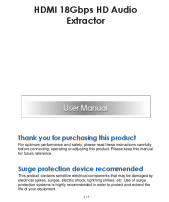
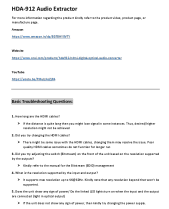
	OREI HDA-925 HDMI 18Gbps HD Audio Extractor User Manual Comprehensive user manual for the OREI HDA-925 HDMI 18Gbps HD Audio Extractor. Learn about its features, technical specifications, operation controls, and connection diagrams for extracting audio from 4K@60Hz, HDR content with support for ARC, CEC, SPDIF, and analog stereo outputs.
	HDA-912 Audio Extractor Troubleshooting Guide | OREI Comprehensive troubleshooting guide for the OREI HDA-912 Audio Extractor. Learn how to resolve common issues related to HDMI cables, audio channels, optical output, and compatibility.
	OREI HDA-939 User Manual: 4K 60Hz HDMI Scaler with 7.1 Audio Downmixing & eARC User manual for the OREI HDA-939 4K 60Hz In-line HDMI Scaler (VER 1.0). Details features, specifications, operation, and RS-232 commands for audio downmixing, eARC, HDR, and Dolby Vision.

	OREI HDS-401MV 4K HDMI 4x1 Quad Multi-viewer User Manual Comprehensive user manual for the OREI HDS-401MV 4K HDMI 4x1 Quad Multi-viewer. Details features, specifications, front/rear panel controls, display modes, remote operation, and application examples for seamless multi-display setups.
	18Gbps HDMI eARC Extractor User Manual - OREI HDA-927 Comprehensive user manual for the OREI HDA-927 18Gbps HDMI eARC Extractor. Learn about its features, technical specifications, operation controls, and setup examples for extracting audio from HDMI sources.

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BK-401S 8K 4 In 1 Out HDMI Switch DIMENSIONS WEIGHT: Length: 136.3mm/5.37in Width: 61.5mm/2.42in Height: 14.5mm/0.57in Weight: 173g/6.1oz The OREI **BK-401**S HDMI Switch enables seamless switching between 4 sources to one display. It supports maximum video resolutions of up to 8K 60Hz, 4K 120Hz, an...

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