

Ilano LL-HDMI2.1-SWITCH

Ilano HDMI 2.1 Switcher (LL-HDMI2.1-SWITCH) User Manual

Model: LL-HDMI2.1-SWITCH

1. OVERVIEW

The Ilano HDMI 2.1 Switcher is designed to expand the HDMI input capabilities of your display device. It allows you to connect up to four HDMI source devices to a single HDMI input on your television, monitor, or projector. This device supports advanced HDMI 2.1 features, including high resolutions and refresh rates, ensuring optimal performance for modern entertainment and gaming setups.



Image: The Ilano HDMI 2.1 Switcher, showing its compact design, multiple HDMI ports, and included remote control and USB power cable.

2. KEY FEATURES

- **HDMI 2.1 Compliance:** Supports the latest HDMI 2.1 standard for high-bandwidth data transmission.
- **High Resolution & Refresh Rate:** Capable of handling video resolutions up to 8K@60Hz and 4K@120Hz.
- **4-Input, 1-Output Configuration:** Connects up to four HDMI source devices to a single display.
- **Multiple Control Options:** Features manual button switching, IR remote control, and automatic switching via CEC.
- **Advanced Video Technologies:** Supports CEC (Consumer Electronics Control), HDCP2.3, 3D video, HDR10+ (High Dynamic Range), VRR (Variable Refresh Rate), and ALLM (Auto Low Latency Mode) for enhanced viewing and gaming experiences.
- **Audio Support:** Compatible with various audio formats including Dolby Atmos and PCM 7.1.

Up to 8K@60Hz high Resolution



HDMI 2.1 up to 8K 60Hz 48 Gbps

HDMI 2.0 up to 4K 60Hz 18 Gbps

HDMI 1.4 up to 4K 30Hz 10.2 Gbps

Image: Visual representation of HDMI 2.1's superior bandwidth and resolution capabilities, supporting up to 8K@60Hz.

4K@120Hz High refresh rate

Supports **VRR**, ALLM and QFT which minimizes input lag judder and frame tearing for smoother and more detailed gameplay.



Image: A gaming console connected through the switch to a display, emphasizing support for 4K@120Hz, VRR, and ALLM for smooth gameplay.

3. PRODUCT COMPONENTS

The Ilano HDMI 2.1 Switcher package includes the following items:

- Ilano HDMI 2.1 Switcher Unit
- IR Remote Control

- USB-C Power Cable (for power supply, adapter not included)
- User Manual (this document)

Your browser does not support the video tag.

Video: An official product video demonstrating the Ilano HDMI 2.1 Switcher's features, including its 8K intelligent chip, 48Gbps data transfer, ARC support, 4K 120Hz VRR, and various switching methods.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Ilano HDMI 2.1 Switcher:

1. **Power Connection:** Connect the provided USB-C power cable to the DC 5V port on the switch. Connect the other end of the USB-C cable to a suitable USB power adapter (e.g., a 5V/2A phone charger, not included). Ensure the switch receives stable power.
2. **Input Device Connection:** Connect your HDMI source devices (such as gaming consoles like PS5 or Xbox, Blu-ray players, PCs, or streaming devices) to the HDMI INPUT 1, INPUT 2, INPUT 3, and INPUT 4/ARC ports on the switch. Use high-quality HDMI 2.1 compatible cables for optimal performance.
3. **Output Display Connection:** Connect your television, monitor, or projector to the HDMI OUTPUT port on the switch. Again, use an HDMI 2.1 compatible cable.
4. **ARC Connection (Optional):** If you intend to use the Audio Return Channel (ARC) feature, ensure your television and audio receiver both support ARC. Connect an HDMI cable from your TV's ARC-enabled HDMI port to the **INPUT 4/ARC** port on the switch. Note that only this specific input port supports ARC functionality.

Wide Compatibility

Supports

8K@60Hz

4K@120Hz

2K@144Hz

1080P@240Hz

IN PUT



DVD



Roku



Fire TV stick



laptop



PC



PS3/PS4/PS5/
Xbox/Switch

OUT PUT



HDTV



Projector



Monitor



Image: Illustration of wide compatibility, showing various input devices connecting to the switch and outputting to different display types.

5. OPERATING INSTRUCTIONS

The Ilano HDMI 2.1 Switcher offers multiple ways to select your desired input source:

- Manual Switching:** Press the 'SELECT' button located on the front panel of the switch to cycle through the connected HDMI input sources (Input 1, 2, 3, 4). The corresponding LED indicator will light up to show the active input.
- IR Remote Control:** Use the included IR remote control to directly select an input source. Press the '1', '2', '3', or '4' button on the remote to switch to the respective HDMI input. Ensure there is a clear line of sight between the remote and the IR receiver on the switch for proper operation.

- **Automatic Switching (CEC):** The switch supports Consumer Electronics Control (CEC). When a connected HDMI source device is powered on or begins playback, the switch may automatically detect the active signal and switch to that input. This functionality depends on the CEC compatibility and settings of your connected devices.
- **Indicator Lights:** Observe the LED indicators on the front panel to identify the currently active input source.



3 Ways Switching Input Sources



Automatic Switching



Remote Switching



Manual Switching

Image: Depiction of the three available input switching methods: automatic, remote, and manual button.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Ilano HDMI 2.1 Switcher, please observe the following

maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials, as these can damage the finish or internal components.
- **Environment:** Place the switch in a well-ventilated area, away from direct sunlight, heat sources, and excessive humidity. Ensure no objects block the ventilation openings.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts.
- **Power:** Disconnect the power adapter when the device is not in use for extended periods.

7. TROUBLESHOOTING

If you encounter issues with your llano HDMI 2.1 Switcher, refer to the following common troubleshooting steps:

- **No Video/Audio Output:**
 - Ensure all HDMI cables are securely connected to both the source devices, the switch, and the display.
 - Verify that the correct input source is selected on the switch (check LED indicators).
 - Confirm that the switch is receiving power from the USB-C power cable and adapter.
 - Test with different HDMI cables, especially high-quality HDMI 2.1 certified cables, as lower quality cables may not support high resolutions/refresh rates.
 - Bypass the switch and connect the source device directly to the display to confirm the source device and display are functioning correctly.
- **Flickering Screen or Intermittent Signal:**
 - This can often be caused by cable quality. Replace HDMI cables with certified HDMI 2.1 cables.
 - Ensure the power supply is stable and sufficient.
 - Reduce the resolution or refresh rate of the source device to see if the issue persists.
- **IR Remote Control Not Responding:**
 - Check and replace the battery in the remote control.
 - Ensure there are no obstructions between the remote and the IR receiver on the switch.
 - Note that the effective range of the remote control may be limited.
- **ARC (Audio Return Channel) Not Functioning:**
 - Confirm that both your TV and audio receiver are ARC-enabled and that ARC is activated in their respective settings.
 - Ensure the HDMI cable is connected to the **INPUT 4/ARC** port on the switch and the designated ARC HDMI port on your TV.
 - Some TV brands (e.g., Sony) may have specific ARC compatibility considerations with external switches. Consult your TV's manual.
- **Automatic Switching (CEC) Issues:**
 - CEC functionality can be inconsistent across different brands and devices. Ensure CEC is enabled on all connected devices.
 - Try disabling and re-enabling CEC on your devices and the switch (if applicable).

8. SPECIFICATIONS

Feature	Detail
Model Number	LL-HDMI2.1-SWITCH

HDMI Version	HDMI 2.1
Max Resolution	8K@60Hz, 4K@120Hz
Inputs	4 x HDMI
Outputs	1 x HDMI
ARC Support	Yes (on INPUT 4/ARC port)
HDCP Version	HDCP2.3
Supported Technologies	CEC, 3D, HDR10+, VRR, ALLM
Power Supply	DC 5V (via USB-C)
Item Weight	9.2 ounces
Package Dimensions	5.87 x 4.25 x 1.14 inches

9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the official Ilano website or contact their customer service department. Keep your purchase receipt for warranty claims.