



Kinivo 550BN **HDMI** Switch

User Manual


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Kinivo Product Support


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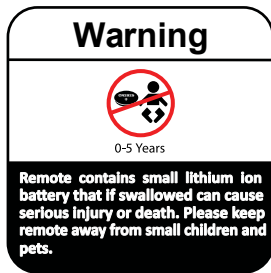
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Important Safety Instructions

Please read instructions carefully before operation

1. To prevent risk of electric shock, do not remove cover of the unit. Refer all servicing to qualified service personnel only.
2. Do not use the switch near water.
3. Clean only with dry cloth.
4. Do not install or place this unit in a bookcase, built-in cabinet or in any other confined Space. Ensure the unit is well ventilated.
5. To prevent risk of electric shock or fire hazard, do not block the unit's ventilation openings.
6. Do not install near any heat sources such as radiators, stoves, heat registers etc.
7. Unplug during lightning storms or when unused for a long period of time.
8. Protect power cord from being pinched, particularly near plug points.
9. Only use attachments/accessories specified by manufacturer.

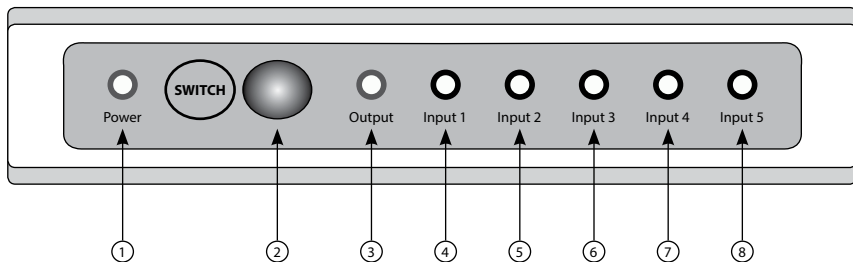


Introduction

The Kinivo 550BN 4K HDMI switch enables up to **three** HDMI source devices (Such as the DVD player, cable box, gaming console etc.) to be connected to a single HDMI input port on your HDTV or video projector. It can be used to expand the number of HDMI ports on a single input HDMI equipped audio/video receiver. It is an easy, convenient and inexpensive solution to expand your home theater setup.

Panel Description

Front and Side Panel Controls



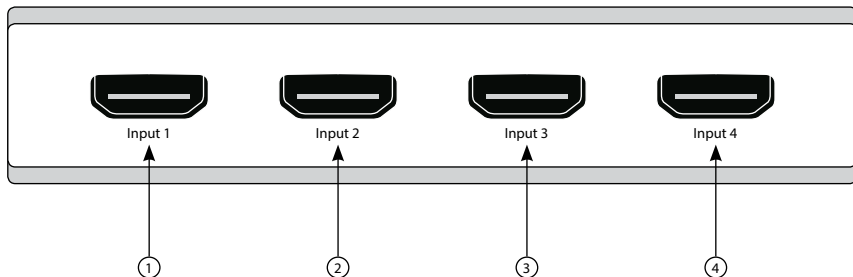
1) Power Indicator

2) IR Remote Sensor

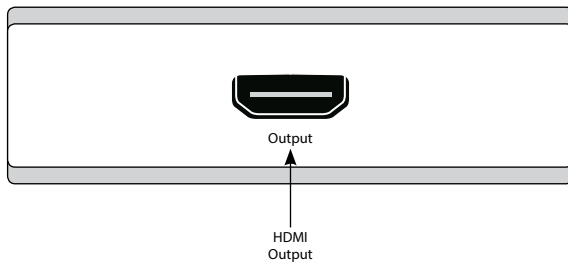
3) HDMI Output Indicator

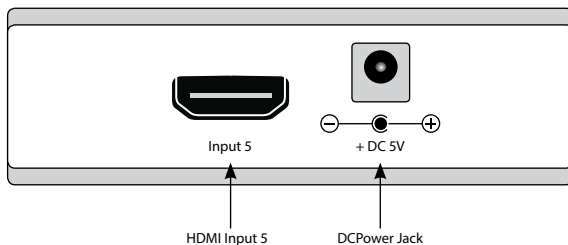
4) to 8) HDMI Input Indicator

Back and Side Panel Connectors

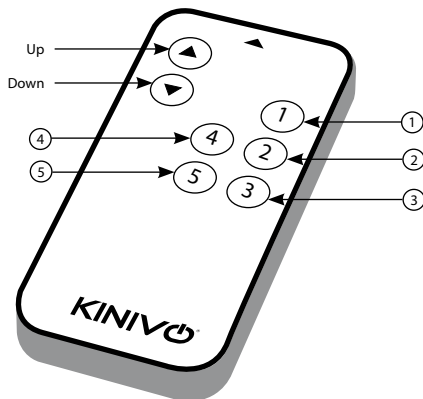


1) to 4) HDMI Inputs; 5th Input located on the side panel beside the DC Power Jack





Remote Control



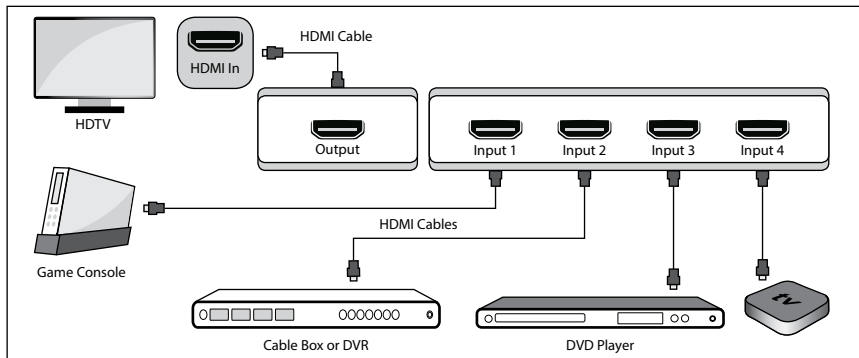
Functioning

1. Directly select a specific HDMI Input by choosing 1, 2, 3, 4 or 5
2. Press 'Up' or 'Down' buttons to select the previous or next input source.

Typical Setup

1. Take an HDMI cable and plug one end into the HDMI input port on your HDTV or projector. Plug the other end to the output port of the HDMI switch.
2. Take another HDMI cable and plug one end into the HDMI Output port on your Gaming Console. Plug the other end into the HDMI Input 1 port of the HDMI Switch.
3. Repeat the above step to connect your Cable Box, Digital Video Recorder (DVR), DVD Player etc.
4. Plug the +DC 5V output plug of the power adapter into the DC IN jack of the HDMI Switch (Shown under 'Side Panel Connector' on Page 2). Plug the power adapter into an AC power outlet. Your HDMI switch is now connected and ready for use.

Connection Diagram



Note: The remote control uses infrared light signal and requires direct line-of-sight to the IR Remote Sensor. Please make sure that the IR Remote Sensor is not blocked.

LED Indication

	Red	Blue	Green	No LED
Output LED	*N/A	Auto switching enabled (default)	Auto switching disabled (see section 8a.)	No signal
Input LED	Non active port	Active port	*N/A	No signal

***N/A: Not Applicable**

Specifications

Supported resolution	4Kx2K@60Hz/ 4Kx2K@30Hz/1920x1200@60Hz/1080P/1080i/720P/576P/576i/480P/480i
Supports deep color up to	36 bit, and for 8-bit, 10-bit, 12-bit deep color per channel
Supports	HDR
Supports	3D
Supports bandwidth up to	18Gbps and transfer bitrates up to 6 Gbps per channel
Compatible with	Standard HDMI devices
Supports TMDS clock frequency range	25~600Mhz

Supported audio format	LPCM/Dolby-AC3/DTS7.1/DSD/Dolby true HD/DTS-HD master audio Input video signal: 0.5 -1.5 Volts P-P
DC input volts	5 Volts P-P
Power Consumption	2.5W
Power supply	DC 5V
Max working current	500mA
HDMI input cable distance	≤10m(1080P)/ 5m (4K) AWG24 HDMI standard cable
HDMI output cable distance	≤10m(1080P)/ 5m (4K) AWG24 HDMI standard cable
Operating temperature range	0 to + 40°C (-41 to 95°F)
Operating humidity range	5 to 90% RH (No Condensation)
Storage Temperature	-15 to 55°C
Storage Humidity	5 ~95% RH (No Condensation)
Warranty	1 Year Warranty

FAQ Frequently Asked Questions

1. What do I do if I have a HDCP error?

HDCP errors are usually caused by syncing/handshake problems.

- Simply unplug all your devices from the switch
- Unplug switch from the power source
- Re-Plug all your devices and restart the entire set up again. This should help resolve the issue.

2. What do I do if my switch is not working or there is no audio? How do I diagnose the issue?

Steps to diagnose the device

- Ensure all HDMI cables are completely inserted into the switch. Loose connection can cause issues.
- Make sure that the HDMI cables are working. Try a different HDMI cable to check if cable is the issue
- Ensure your input devices are powered on.
- Test with just one input device to diagnose. Check if the input device works directly with the TV. This will also help verify the HDMI cable. Try pressing the input number on the remote corresponding to where the input is connected

3. What do I do if Automatic Switching is not working as advertised?

Refer to “**Automatic Input Selection**” section on page 13 to understand how auto-switching works.

Operation

HDML Input Indicators

The 550BN Switch has five HDMI Input indicator lights on its front panel. When the switch senses audio/video transmission on one of its HDMI Input ports, the corresponding HDMI Input Indicator is illuminated in Red color. When an HDMI Input is selected for use, the corresponding HDMI Input Indicator is illuminated in Blue. The HDMI Input Indicator is not lit when there is no input signal or no HDMI cable is connected.

Input Selection with the Front Panel Button

To select an HDMI input, press the **'SWITCH'** button on the front panel of the HDMI switch. Each press of the button progresses to the next active HDMI INPUT. Signal from the selected HDMI INPUT is sent to the OUTPUT port and its corresponding HDMI Input Indicator is illuminated in Blue.

Input Selection with the Remote Control

The Up and Down buttons on the remote control have the same function as the SWITCH button on the front panel. To select an HDMI input, press the Up or Down button on the remote of the HDMI switch. Pressing the 'Up' button will move to the next active HDMI Input. Pressing the 'Down' button will move to the previous active HDMI Input. Signal from the selected HDMI Input is sent to the Output port and its corresponding HDMI Input Indicator is illuminated in Blue.

There are also direct input selection buttons on the remote control (Buttons 1, 2, 3, 4 & 5). Pressing each button selects the corresponding HDMI INPUT port, no matter whether the port has active input signal or not.

Automatic Input Selection

When the 550BN 4K HDMI Switch is powered on for the first time, it senses input ports automatically and switches to the input port source automatically in the sequence 1 -> 2 -> 3 -> 4-> 5. It bypasses input ports without signal. When a new device is turned on, the switch automatically selects that input. For example, if you switch on your cable TV, the HDMI switch will automatically switch to the cable TV. Turn the currently selected device off and switch automatically selects the next higher numbered input that has an active signal (1 -> 2 -> 3 -> 4 ->5...)

Some source devices stay in a standby mode even when you think they are switched off and always maintain a connection with the switch. This non-compliant behavior does not allow the HDMI switch to perform its auto switching. You can test this by looking at the HDMI switch LEDs after switching off your inputs.

Note: The Apple TV, Roku and Amazon Fire TV are examples of non-compliant devices: Please verify all your input devices by looking at their LEDs when they are powered off. Powering off / powering on the apple TV will not make any difference. However, powering off/on other devices may allow auto switching. You will be able to switch out of Apple TV to a newly powered cable box or a Blu-ray player. You can switch back to apple TV by powering off the cable box or the Blu-ray player if the Apple TV falls next in the sequence 1 -> 2 -> 3 -> 4 ->5.

You can contact support@kinivo.com if you need help in deciding the best assignment of ports. As a first step, you will need to test your input devices (such as the cable box, Blu-ray player etc.) for the above mentioned non-compliant behavior of keeping their HDMI port active in powered-off state.

How to Enable or Disable Auto switching

Note: The 550BN auto switching function is enabled by default.

- a. When the auto switch function is enabled the Output LED will emit a blue light. To disable the auto switch function, press and hold the “switch” button on the front panel of the 550BN for approximately 8 seconds. The output LED will flash 4 times and turn green. Output LED will stay green when Auto switching is disabled.
- b. When enabling the auto switch function, press and hold the “switch” button on the front panel of the 550BN for approximately 8 seconds. The output light will flash 4 times and turn blue. Output LED will stay blue when Auto switching is enabled (default).

FCC Statement

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by

One or more of the following measures

- Reorient or relocate the receiving antenna.

- Move the equipment away from the receiver.
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for additional suggestions. You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. If the time arises to throw away your product, please recycle all the components possible. Batteries and rechargeable batteries are not to be disposed in your domestic waste! Please recycle them at your local recycling point. Together we can help to protect the environment.

Warranty

1 Year Limited Hardware Warranty.

Kinivo hereby warrants to the customer of record that this product is in good-working condition and free from defects in material or workmanship under normal use for a duration of 1 year after the date of purchase. The product has been tested to meet the highest quality standards in each testing category. In the unlikely event that the product proves to be defective, Kinivo will repair or replace the product free of charge. If replacement is required and if Kinivo then no longer carries the same product, then Kinivo reserves the right to substitute the product with a replacement product of like quality and size, suitable for the intended use.

This warranty is limited to repair or replacement of the mentioned product only, is non-transferable and does not extend to any product damaged by misuse, natural disasters or any other circumstances beyond Kinivo's control. The warranty does not cover or provide for the reimbursement or payment of incidental or

consequential damage resulting from breach of the limited warranty described above. Except for the limited warranty described above we offer no other warranties expressed or implied, and other than limited warranty expressly contained herein, we hereby disclaim any and all warranties, including without limitation any implied warranties of merchantability, suitability or fitness for a particular purpose.

If your product is not functioning or you have any concerns please contact Kinivo Support before returning the product.

Online Support / Contact Us

Please visit us at support.kinivo.com or www.kinivo.com for support information, downloads and how-to's. You may also reach us via email or live chat (details below).

Kinivo Product Support

Toll Free Number: [1-855-454-6486](tel:1-855-454-6486)

Email : support@kinivo.com

Live chat : <http://support.kinivo.com>

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