

## TESmart HSW0401A1U

# TESmart 4x1 HDMI Switch HSW0401A1U Instruction Manual

Model: HSW0401A1U

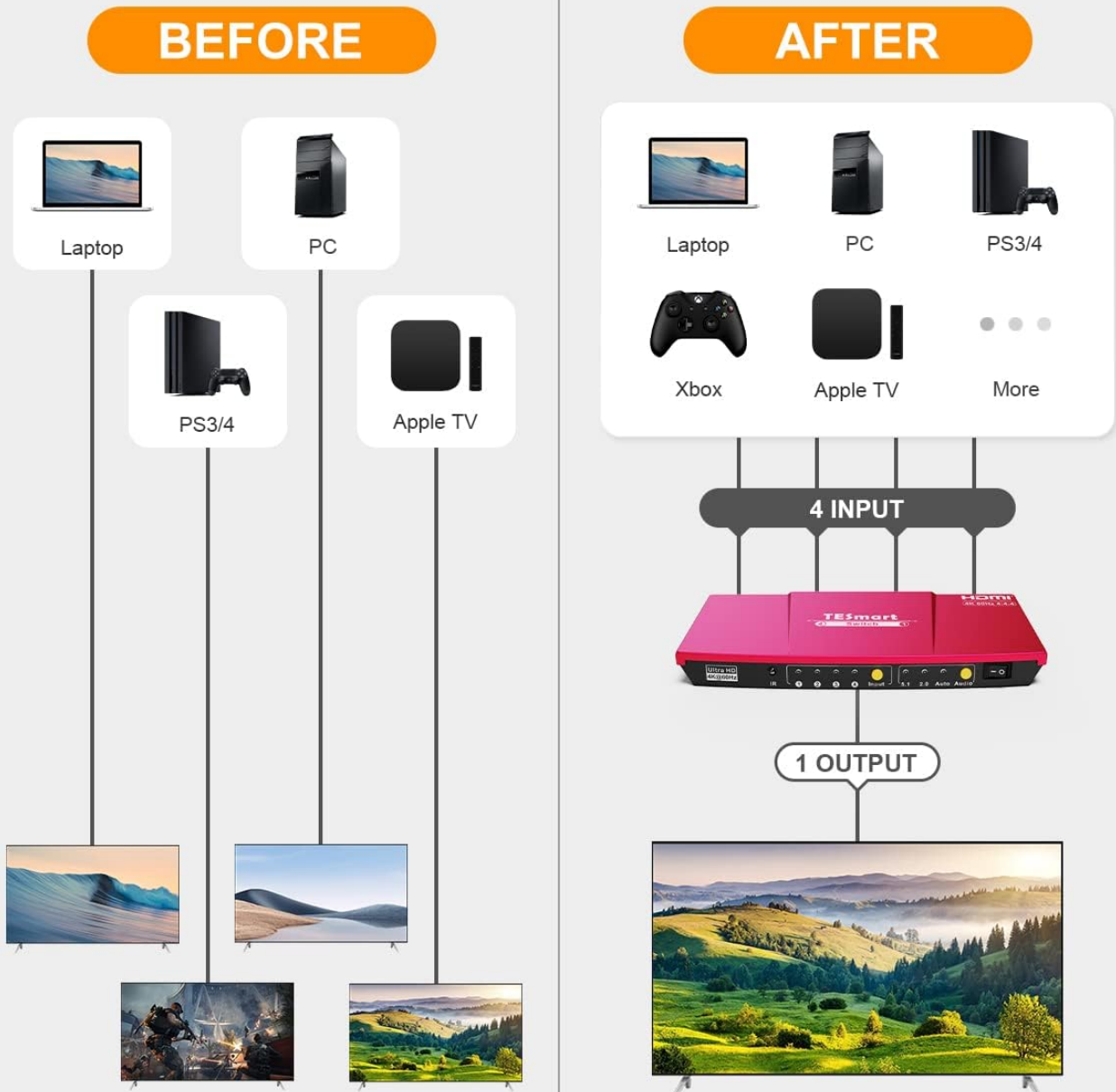
## INTRODUCTION

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The TESmart 4x1 HDMI Switch HSW0401A1U allows you to connect up to four HDMI source devices to a single HDMI display. This device supports 4K@60Hz resolution, HDR, HDCP 2.2, and 3D, providing high-quality video and audio. It also features optical S/PDIF and L/R audio outputs for enhanced audio flexibility. Control is available via front panel buttons or an IR remote control, with an optional automatic switching mode for convenience.

# Make Your Life Tidy and Convenient

Save Your Money and Space



**Figure 1:** The TESmart 4x1 HDMI Switch streamlines connections, allowing multiple input devices to share a single display, reducing cable clutter.

## KEY FEATURES

- **4x1 HDMI Switcher:** Connects up to four HDMI source devices to one HDMI display.
- **4K HDMI with Audio Output:** Supports 3840x2160@60Hz 4:4:4, HDR, HDCP 2.2, and 1080P 3D. Includes S/PDIF optical and L/R analog audio outputs.
- **Multiple Switching Methods:** Easily switch between sources using front panel buttons, IR remote control, or

automatic detection.

- **Wide Compatibility:** Compatible with various HDMI sources such as PlayStation, Xbox, Nintendo Switch, Blu-ray players, set-top boxes, Chromecast, Apple TV, and projectors.
- **Durable Construction:** Features an aluminum alloy casing for enhanced durability.

# Wide Compatibility

## INPUT



Laptop



PC



Apple TV



Xbox



PS3/PS4



More

## OUTPUT



Monitor



TV



Projector



More



**Figure 2:** The switch supports advanced video technologies including 4K@60Hz, HDCP 2.2, HDR 10, and 3D for a high-quality viewing experience.

# 4K@60hz Resolution

Enjoy Vivid Movie & Game



**Figure 3:** The switch offers broad compatibility with a range of input and output devices, making it versatile for different setups.

## PRODUCT OVERVIEW

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### Front and Rear Panels





Figure 4: Front and Rear Panel Layout of the TESmart 4x1 HDMI Switch.

#### Front Panel Features:

- **IR Receiver:** Receives signals from the IR remote control.
- **Input Selection Status LEDs (1-4):** Indicate the currently active HDMI input.
- **Input Selection Button:** Manually cycles through HDMI input sources.
- **Audio Mode Selection Status LEDs (5.1, 2.0, Auto):** Show the selected audio output mode.
- **Audio Mode Selection Button:** Toggles between 5.1 channel, 2.0 channel, and Auto audio output modes.
- **Power Switch:** Turns the device on or off.

#### Rear Panel Features:

- **DC 5V Power Input:** Connects to the provided 5V DC power adapter.

- **HDMI Input Ports (1-4):** Connect your HDMI source devices.
- **HDMI Output Port:** Connects to your HDMI display.
- **S/PDIF Optical Audio Output:** Connects to an optical audio receiver or soundbar.
- **AUX L/R Audio Output:** Connects to an analog audio system via a 3.5mm jack.

## SETUP INSTRUCTIONS

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1. **Connect HDMI Sources:** Connect up to four HDMI source devices (e.g., gaming consoles, Blu-ray players, PCs) to the HDMI Input ports (1-4) on the rear panel of the switch using high-quality HDMI cables.
2. **Connect HDMI Display:** Connect your HDMI display (TV, monitor, projector) to the HDMI Output port on the rear panel of the switch using a high-quality HDMI cable.
3. **Connect Audio Output (Optional):**
  - For optical audio, connect an S/PDIF optical cable from the switch's S/PDIF port to your audio receiver or soundbar.
  - For analog audio, connect a 3.5mm audio cable from the switch's L/R port to your audio system.
4. **Connect Power:** Plug the provided 5V DC power adapter into the DC 5V input port on the switch, then plug the adapter into a power outlet.
5. **Power On:** Turn on the HDMI switch using the power switch on the front panel. The LED indicators will illuminate.

## OPERATING INSTRUCTIONS

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### Switching HDMI Inputs



Figure 5: Multiple methods for switching between HDMI sources.

- **Manual Switching (Front Panel):** Press the "Input" button on the front panel to cycle sequentially through the connected HDMI sources (Input 1 → Input 2 → Input 3 → Input 4). The corresponding LED indicator will light up.
- **IR Remote Control:** Use the provided IR remote control to directly select the desired input by pressing the corresponding number button (1, 2, 3, or 4). Ensure the remote is pointed towards the IR receiver on the front panel.
- **Automatic Switching:** The switch supports automatic detection. When a new input device is attached or powered on, the HDMI switch will automatically switch to this newly plugged-in source. If a connected input source is removed, the HDMI switch will switch to the first valid input source automatically. If the HDMI switch is connected to a non-signal input port, it will switch to the next valid port automatically in a few seconds.

### Audio Mode Selection

- Press the "Audio" button on the front panel or the corresponding button on the IR remote to select the desired audio output mode: 5.1 channel, 2.0 channel, or Auto. This allows you to match the audio output to your sound system's

capabilities.

**Video 1:** This video demonstrates how to enable or disable the automatic detection switch mode on the TESmart 4x1 HDMI Switch, showing the button presses and LED indicator responses.

## SPECIFICATIONS

Feature	Specification
Model Number	HSW0401A1U
Product Dimensions	7.72 x 3.15 x 1.1 inches
Item Weight	1.2 pounds (500g)
HDCP Compliance	2.2
Data Rate	18 Gbps
Max Resolution	3840x2160@60Hz 4:4:4
Audio Support	Surround sound (up to 7.1ch) or stereo digital audio
ESD Protection	Human body model - ±8KV (Air-gap discharge)
Input	4* HDMI Type A
Output	1* HDMI Type A, 1* AUX (for L/R audio out), 1* S/PDIF audio out
Chasing Material	Aluminum alloy
Power Supply	DC 5V 1A
Operating/Storage Temperature	0 to 70 degree / -40 to 85 degree Celsius
Operating Humidity	10 to 90% RH
Remote Battery Type	CR2025 (not included)

## TROUBLESHOOTING

- **No Signal or Flickering Display:**
  - Ensure all HDMI cables are securely connected.
  - Use certified high-speed 18Gbps HDMI cables, especially for 4K@60Hz content, to prevent signal loss or flickering.
  - Verify the correct input source is selected on the switch and your display.
  - Try restarting the switch and connected devices.
- **Audio Issues (No Sound or Incorrect Format):**
  - Check that your audio system is properly connected to the S/PDIF or L/R output ports.
  - Ensure the audio mode on the switch (5.1, 2.0, Auto) matches the capabilities of your audio receiver or soundbar.
  - Confirm that the audio settings on your source device are correctly configured for the desired output.
- **IR Remote Control Not Responding:**
  - Ensure a CR2025 battery is correctly installed in the remote (battery not included).

- Point the remote directly at the IR receiver on the front panel of the switch.
- Remove any obstructions between the remote and the switch.
- **Device Overheating:**
  - Ensure the switch is placed in a well-ventilated area and not covered, allowing for proper heat dissipation.

## WARRANTY AND SUPPORT

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The TESmart 4x1 HDMI Switch HSW0401A1U comes with a 1-year warranty from the date of order. Free technical support is available for any issues or questions you may have. For assistance, please contact TESmart support through the vendor's official channels.