

**TE**Smert **TE**Smart

# User **4x1 HDMI Switch** Manual **4K S/PDIF AUTO**

HSW0401A1U

To Enjoy Smart

HSW0401A1U

English



## **Preface**

It's our great honor that you have chosen the HDMI Switch produced by our company, Tesla Elec Technology Co.,Ltd. In this user manual, you will learn how to operate and use this product. Please read this user manual comprehensively before use. If you have any questions, comments or suggestions, please contact us via the following email:

tech@tesmart.com.

## **Copyright Notice**

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## **Address of Manufacture**









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Xiawei Industrial Zone, Zhangkengjing Road,  
Guanlan Street,  
Longhua District, Shenzhen City,  
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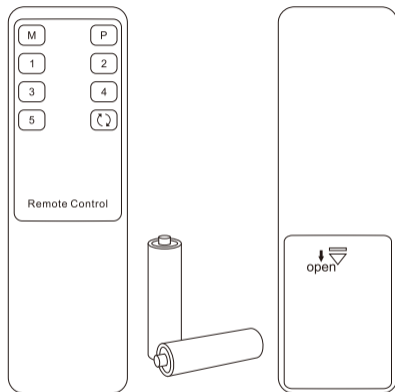
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## 1. Safety Tips and Warnings

**Tips:** Read the safety tips and warnings for HDMI Switch comprehensively before use. Use this produce in accordance with its instructions, safety tips and warnings to prevent unnecessary damage to the product and potential dangers to users.

-  Keep the product away from water.
-  Clean the product with dry cloth.
-  Use the product in accordance with its instructions and do not block its vents.
-  Keep the product away from ignition sources, such as heat sinks, heat accumulators, stovepipe and other heat production settings (including audio amplifiers).
-  Do not touch the product and the power cord with wet hands so as to lower the risk of electric shock and damage to the product. Do not let the product get wet or become damp.
-  Unplug the power supply of this product in thunderstorm days or when it has been not used for a long time.
-  Do not expose this product and its battery to open fire or overheating environment. Dispose the waste battery in accordance with instructions.
-  Users shall not remove and repair the product without authorization.

## 2. Battery Description



**Tips:** By default, the remote control is not equipped with batteries, due to the safety requirements of some express companies. Install AAA dry cells before use.

**Caution:** Improper disposal of the lithium battery may cause an explosion. Do not throw the battery into fire. Keep the battery away from children. Dispose the waste battery in accordance with local regulations.



### 3. Warranty Information

We warrant this product as free of defects in material and workmanship for a period of one (1) year from the date of shipment. If during the period of warranty this product proves defective under normal use, we will repair or replace this product, provided that this product has not been subjected to mechanical, electrical, or other abuse or modifications. If it fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for six (6) months from the day of reshipment to the buyer.

## 4. Preface

Dear Users:

HDMI Switch can greatly facilitate your management of audio and video devices. If you have a home theater or entertainment setup with multiple sources and display devices like game consoles, streaming boxes, and set-top boxes, it can be hard to manage in terms of cables and switching devices. Our HDMI Switch can help you add more inputs to your TV or AV receiver if you have too many devices to manage. With this HDMI Switch, you can also get original digital audio through S/PDIF optical audio port.

**Tips:** If you need to control more devices or conduct more complex and professional switching, you can also choose other products of our company. For more details, please visit our official website: [www.tesmart.com](http://www.tesmart.com).



## 5. Features

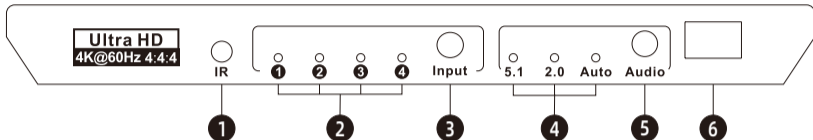
- With 4 HDMI inputs and 1 HDMI output
- Support resolution up to 4K@60Hz 4:4:4
- HDCP 2.2 compliant
- Support auto input detection
- Support audio output via S/PDIF optical and L/R AUX interface
- Support 3 modes of audio output
- Support Dolby TrueHD, DTS-HD Master Audio, Dolby Digital and AC-3 audio transmission
- Easy to switch input source with IR remote control and panel button
- Support HDR 10 and Dolby Vision

## 6. Packing List

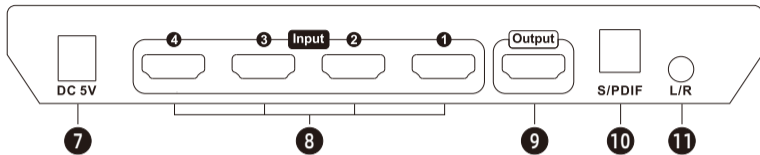
- 1 \* 4x1 HDMI Switch
- 1 \* IR Remote Control
- 1 \* DC 5V Power Adapter
- 1 \* User Manual

**Tips:** After receipt of the product, please check the packing list carefully to make sure that no components have been lost and no damage to the product has been caused during transportation. If you have any problem, please contact us at any time.

## 7. Panel Description



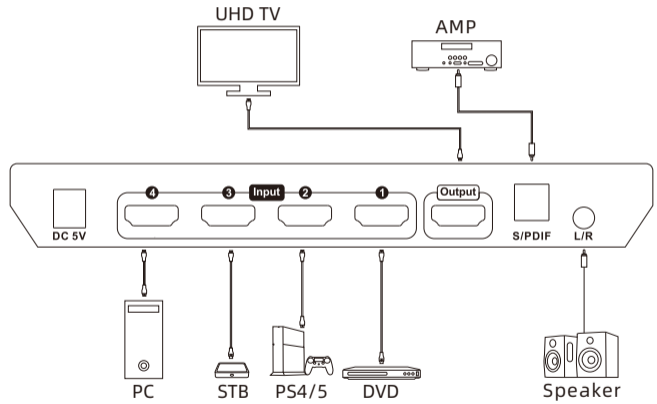
ID	Name	Description	ID	Name	Description
1	IR receiver	Receive IR signal.	4	Audio mode selection status	Indicates the currently selected audio mode.
2	Input selection status	The LED will be lit if the corresponding input source is selected.	5	Audio mode selection button	Select audio output mode.
3	Input selection button	Select input port.	6	Power switch	Turn on or off power supply.



ID	Name	Description
7	DC 5V	DC 5V power supply.
8	HDMI input ports	Connect to HDMI source devices.
9	HDMI output port	Connect to HDMI display.
10	S/PDIF optical audio output	Connect to amplifier, soundbars by a Toslink cable.
11	AUX L/R audio output	Connect to analog L/R audio speaker.

## 8. Connection Description

### 8.1 Connection Diagram



## 8.2 Connection Steps

1. Connect the input devices to the input ports using 4 HDMI cables.
2. Connect the output port to the display device using 1 HDMI cable.
3. Connect the amplifier or soundbar to the S/PDIF port using Toslink cable.
4. Connect speaker to the AUX L/R audio output.

**Tips:** You can choose S/PDIF audio output or L/R audio output depending on your needs.



5. Connect the power cable to the HDMI Switch's DC 5V port and plug it to a power socket.



6. By now, the connection has been completed. Turn on the power supply and the HDMI Switch will begin to work.

**Tips:** If you get no sound from L/R audio out, please change the audio format to "2.0"(refer to Chapter 10), as the L/R audio out only support 2.0 channel and the switch would not convert the audio format.

## 9. Switch Modes Description

Press the button 'Input' until all of the indicators flash once, the switch enters Auto Switch mode or Manual Switch mode. The default is Manual Switch mode.

### 9.1 Manual Switch Mode

In this mode, use panel button or IR remote control to switch input port.

### 9.2 Auto Switch Mode

In this mode:

1. When attaching a new input device to the switch, the HDMI switch will switch to this just plugged in source automatically.
2. When removing a connected input source, the HDMI switch will switch to the first valid input source automatically.

**Tips:** Also you can use panel button or IR remote control to switch input port.



## 10. Audio Modes Description

The Switch supports the high channel audio mode. You can select the audio output of the corresponding channels by pressing the audio mode selection button 'Audio' on the front panel or the key 'P' on the remote control.



5.1 : In this mode, the input device can select up to 5.1 Channel audio regardless of whether the display supports 5.1 Channel or not.

2.0 : In this mode, the input device can select up to 2.0 Channel audio regardless of whether the display supports 2.0 Channel or not.

Auto: In this mode, the supported audio format is depended on the connected display.

- Tips:**
1. The L/R audio output port cannot support more than 2.0 Channels audio. If Multi channels is played, the L/R audio will not output correctly.
  2. Change audio mode on switch will not convert the audio format from input source, but may change the preferred audio setting of the input source device.

## 11. CEC Function Description

Consumer Electronics Control (CEC) is a feature of HDMI designed to control HDMI connected devices by using only one remote controller; So, individual CEC enabled devices can command and control each other without user intervention, for up to 15 devices.

If your input devices and output device support CEC command, you can use below function:

### **One Touch Play:**

Allows devices to switch the TV to use it as the active source when playback starts.

### **System Standby:**

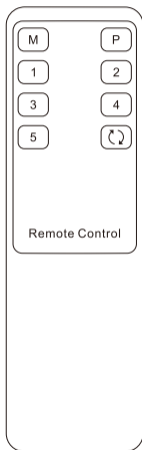
Enables users to switch multiple devices to standby mode with the press of one button.

**Tips:** The function on this switch acts like: when you turn off the TV which is connected to the switch, all the input devices will be turned off.

### **Remote Control Pass Through:**

Allows remote control commands to be passed through to other devices within the system.

## 12. IR Remote Control



- M — Switch to next input port
- P — Switch audio mode
- 1 — Switch to input 1
- 2 — Switch to input 2
- 3 — Switch to input 3
- 4 — Switch to input 4

**Tips:** Unspecified buttons at above are non-functional.

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