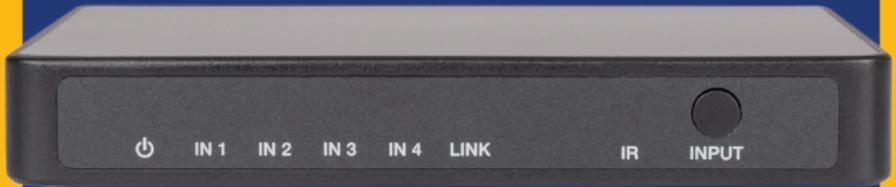# CONCORD

CS4WH20B4KS-A

HDMI 4 Way Switcher

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction

The product can switch any of these 4 HDMI 2.0 sources to an HDMI 2.0 display. It supports 10bits HDR (High Dynamic Range) pass through and resolution up to 4K2K@50/60Hz 4:4:4. An optical output is supported. The product is built-in WiFi function, so it supports voice control through connecting an amazon voice product and APP control. Furthermore, the product can also be controlled by on-panel button andn IR remote control.

2. Features

☆ HDMI 2.0, HDCP 2.2 compliant
☆ Support 18Gbps bandwidth
☆ Resolution up to 4K2K@50/60Hz YCbCr 4:4:4
☆ 10bits HDR pass through supported
☆ Support an optical output
☆ Support connecting an amazon voice control
   (Please check "6. Echo Connection and Operation" detail description)
☆ Support "Smart switch" APP control
   (Please check "6.2 To set Switcher and use APP control")
☆ IR remote and on-panel button control
☆ 4 HDMI inputs and 1 HDMI output
☆ Compact design for easy and flexible installation

3. Package Contents

① 1× 18Gbps HDMI 4×1 Switcher
② 1× 5V/1A DC Power Adapter
③ 1× IR Remote
④ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 / HDCP 1.4

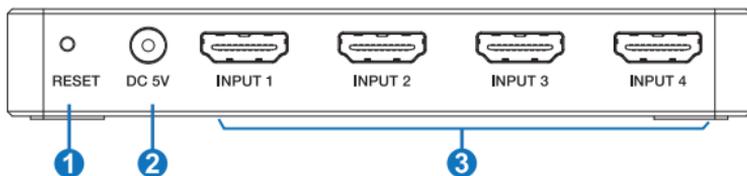|	
Video Bandwidth	594MHz/18Gbps
Video Resolution	480i ~1080p50/60Hz, 4Kx2K@24/30Hz, 4k2k@60Hz
Color Depth	8/10/12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)] 8-bit [4K60Hz 4:4:4]
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Optical Audio Formats	PCM2.0, Dolby Digital / Plus, DD+, DTS
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Input Ports	4×HDMI Type A (19-pin female) 1×IR Receive Window
Output Ports	1×HDMI Type A (19-pin female) 1×OPTICAL audio out (S/PDIF)
Mechanical	
Housing	Plastic Enclosure
Silkscreen Color	Black
Dimensions	122mm (W) × 64mm (D) × 19mm (H)
Weight	230g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A
Power Consumption	1.45W
Operation Temperature	-10°C ~ 50°C / 14°F ~ 122°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

5. Operation Controls and Functions

5.1 Front Panel
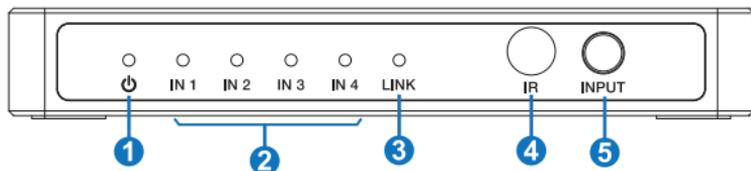
Number	Name	Function description
1	POWER LED	The LED will illuminate in red when the device is connected to power supply.
2	IN 1/2/3/4 LED	The LED will illuminate in green when HDMI OUT port is selected an input source.
3	LINK	Network connection LED. The LED will illuminate when the device connects network signal.
4	IR IN	IR receiver window. It receives the IR remote control from this product only.
5	INPUT button	Pressing this button will select IN1/IN2/IN3/IN4 input source to OUTPUT port.

5.2 Rear Panel

Number	Name	Function description
1	RESET button	Network connection and firmware upgrade button. ▪ The product will enter network setting status when the button is pressed up to 3s. ▪ The product will enter firmware upgrade status when the button is pressed less 0.2s. (The FOTA to upgrade.)
2	DC 5V	Plug the DC 5V/1A power supply into the unit and connect the adapter to an AC outlet.
3	INPUT 1/2/3/4	Connect to HDMI source devices such as DVD player or set-top box with an HDMI cable.

5.3 Side Panel
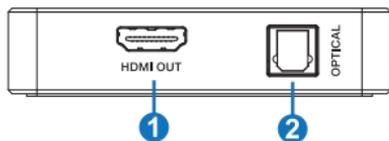
Number	Name	Function description
1	HDMI OUTPUT	Connect to one HDMI display device such as TV or Monitor with an HDMI cable.
2	OPTICAL port	Connect to audio output device such as amplifier with an optical wire.

6. Echo connection and operation

## 6.1 To set Voice Box and to connect Amazon Account

There are two ways to enter amazon alexa login page.

a. You can input the "https://alexa.amazon.com" web site to your PC/loptop/mobile Internet Explorer and click "Search" to enter amazon alexa page.
b. You can download and install the app "amazon alexa". Open this app "amazon alexa" to enter amazon alexa page.
The login page of the amazon alexa is shown as below:

You need to fill in some information to creat an account. You can enter the login page when the account creates successfully. The page is show as below:
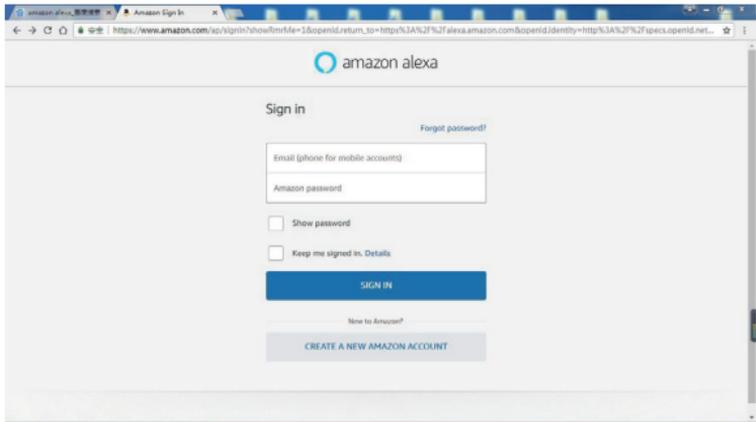

Sign in the account successfully, you will enter the following page. You need to setup a new device on the "Settings" page.
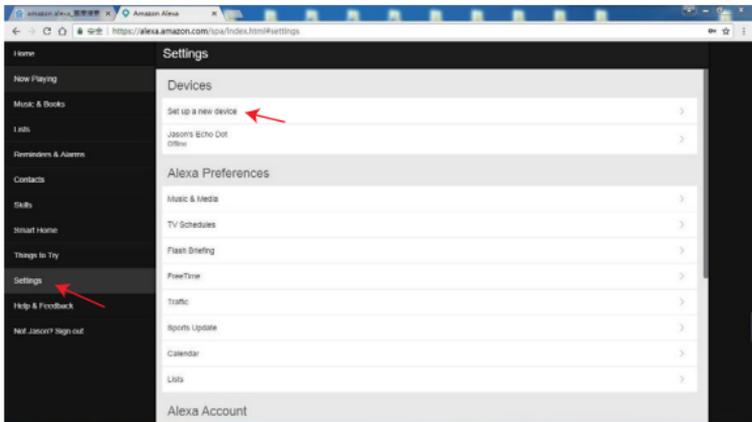
At this time, according to your speaker box to select one product. Our company uses the product about "Echo Dot", and clicking the "Echo Dot" icon will setup the product at the following steps.
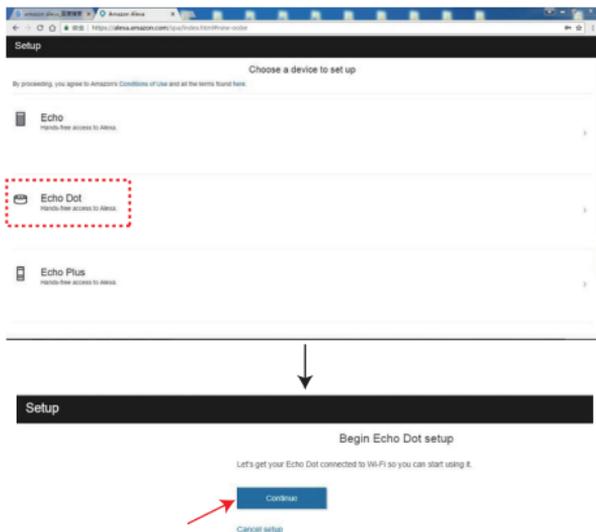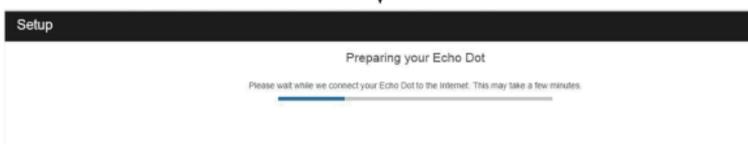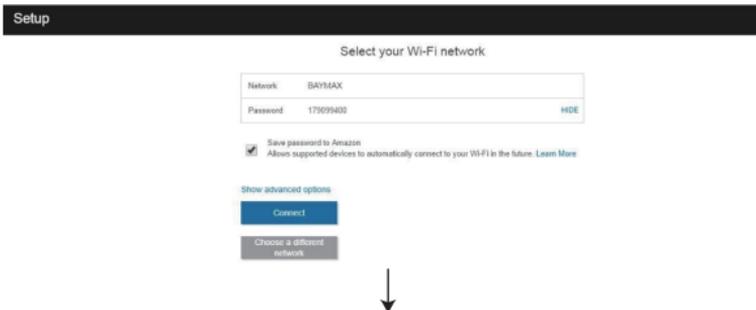

At this step, you need to power on your Echo Dot. When the blue horse race lamp is off, you need to press the 'round dot' button (the button on the right) until it appears yellow horse race lamp. Click the 'Continue' button. The page is show as below:
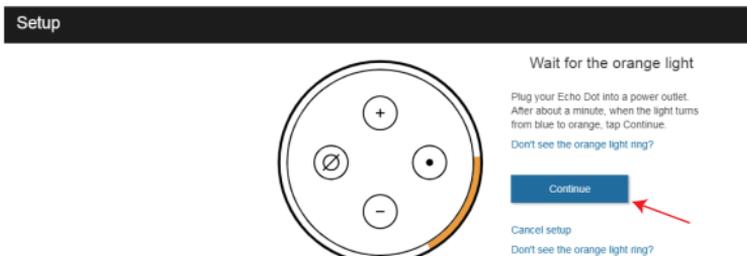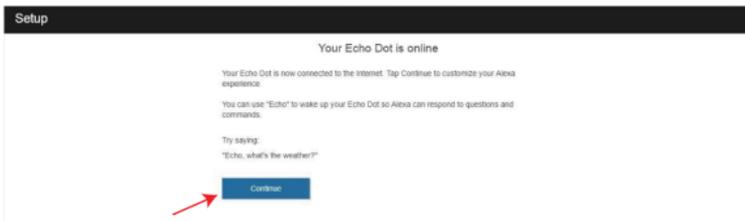
At this step, go to your Wi-Fi setting on this computer and select the network of the format 'Amazon-XXX' to connect it. After connecting to 'Amazon-XXX', you can continue setup. These page are show as below:
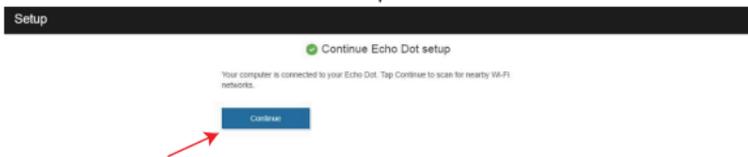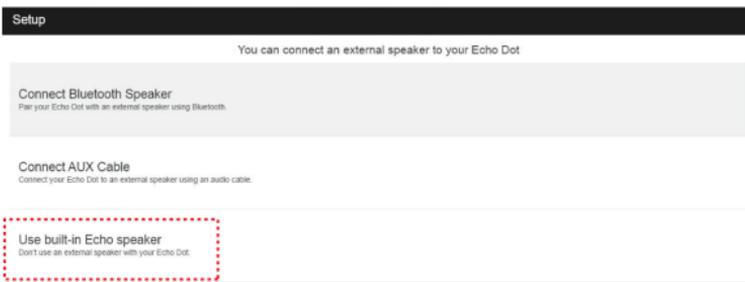

At this step, you need to select one available Wi-Fi network on this computer and connect it.
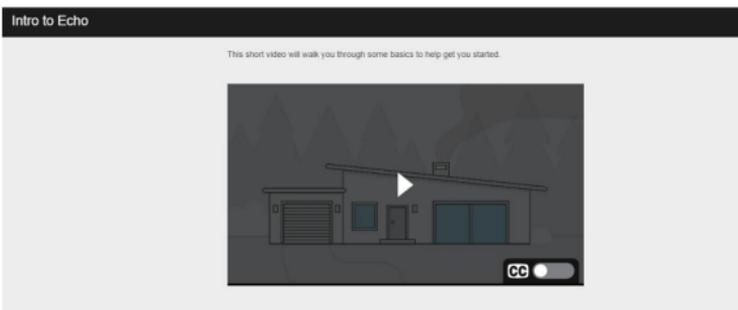
You can connect an external speaker to your Echo Dot. Our company does not an external speaker to connect the Echo Dot, so I will select 'Use built-in Echo speaker'. The page is show as below:

At this step, all settings about the Echo Dot has been finished.

6.2 To set Switcher and use APP control

Please download a "Smart switcher" APP on your iOS device.

Smart switcher

Click this APP icon, if you registered before, click "SIGN IN" to login, but if you have not register, please click "Registered". Then you will see the following register page.

Step1: Fill in these information and click "Creat my account". Then to enter login page.

Note: You need to input a real e-mail address if you want to change the password. In addition, the e-mail need to be used when connected the voice box.

Step2: Please enter the email and password before you have registered, and then click the "Sign in" to login.

Step 3: Click the "+" sign

Step4: Press and hold the "RESET" button for 3 seconds, then click the "Next" button.

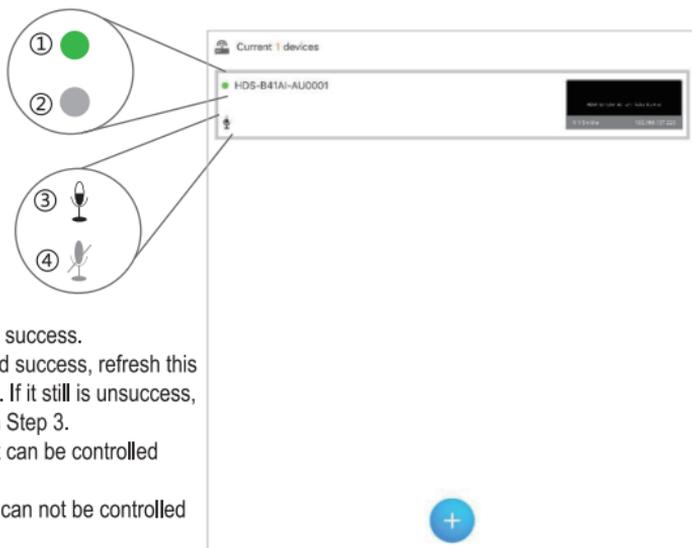Step5: Input has recognized the Wifi password and then click the "Next" button.

Step6: When you see this page, the Wifi has connected success, click "OK" button and then click "Set" button to enter the following page. At this time, the LINK LED is always light.
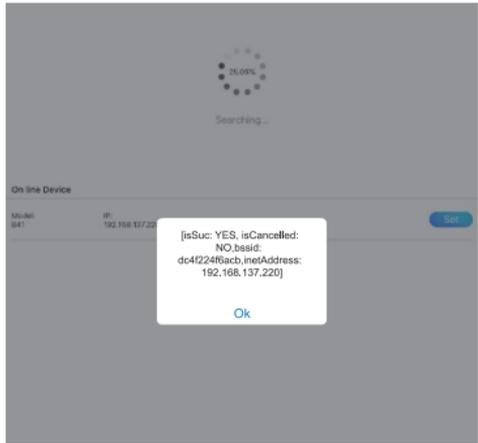
Step7: Input the name of device and connecting source, click Submit. Then select Home to return for main page.
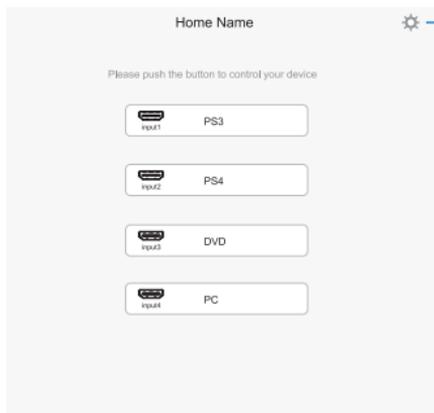
① Green means connected success.
② Gray means unconnected success, refresh this page and wait for a moment. If it still is unsuccess, please connect it again from Step 3.
③ Black means the product can be controlled by voice box.
④ Gray means the product can not be controlled by voice box.

If the product is connected success, click it to enter control page.

Push the corresponding button to control your device.

Click it to enter setting page, you can modify Sink name and Source name again. Click "Show me", the LINK LED will flash and "Show me" change to "Hide me". If you click it again to return to "Show me" and the LINK LED stops flash. This function is to find the corresponding device.
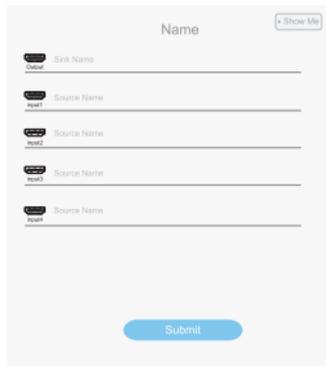
6.3 To activate Skills and connect product

At the Amazon Alexa page, You need to select "Skills" option and input "smart switcher" and click "search" button to enter the next step.
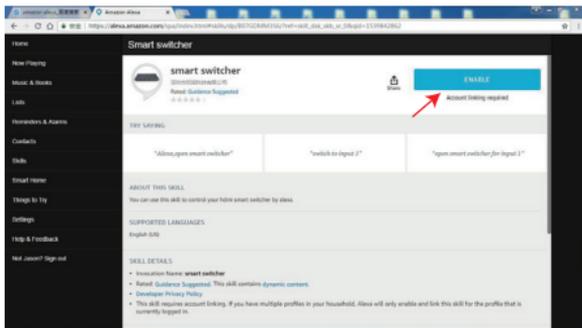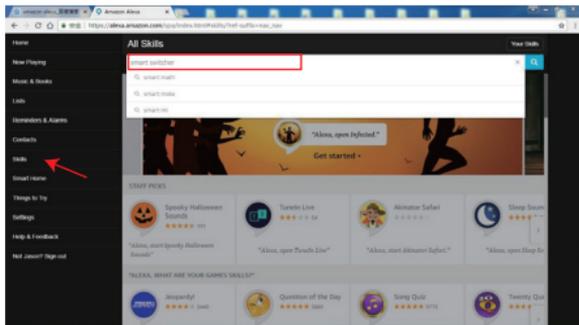
I have registered the Email address and Password at the front and fill in it at this page.

At this step, the smart switcher has been successfully linked. You can use the Echo Dot product to switch the switcher input source.

6.4 Echo voice command list
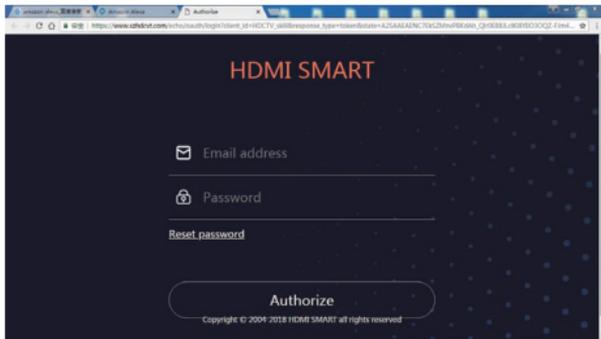
Function	Voice command
Wake up product	open smart switcher
switch to input channel	• open smart switcher for input {input number} • switch to next input • switch to previous input • You can set custom input source name and speak the custom input source name to switch input channel. For example: switch to 'apple tv'. (Please check "6.2 To set Switcher product" description.)

6.5 Automatic switch features

① The product has power off memory function. After power off, and these input signal sources have not been pulled out. The output device will display the input source of the last power down when the product is powered on again.
② The product is powering on. The output device will display the next input channel signal when you pull out current input signal source. The priority order is 1->2->3->4->1...etc.
③ The product is power off. If you pull down current input signal source. The output device will display the next input channel signal when the product is powered on again. The priority order is 1->2->3->4->1...etc.

7. IR Remote

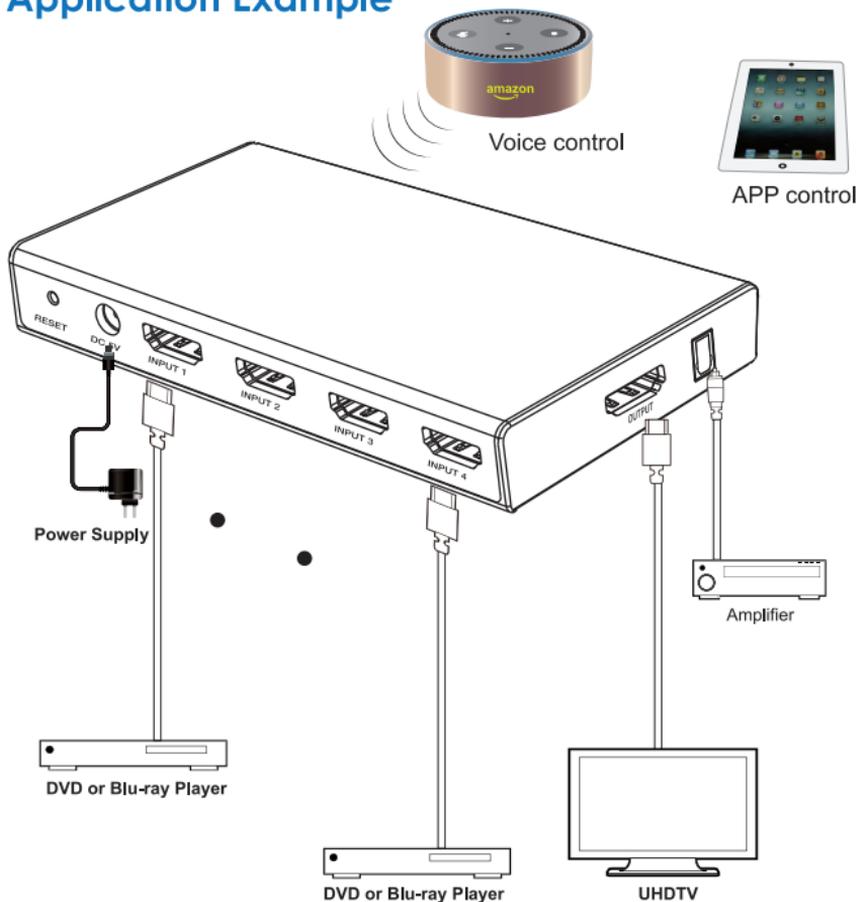**IN1/IN2/IN3/IN4:** Select IN1/IN2/IN3/IN4 input source to output display.

↻: Loop select input source to output display.

8. FAQ

1. **Q:** Does this product require an HDMI line length for the connection interface?
A: According to HDMI line length test, HDMI input / output with 4K2K@24Hz 8bit or 4K2K@60Hz YCbCr 4:4:4 is the longest line length up to 16.4ft / 5m.

The use of "Premium High Speed HDMI" cable is highly recommended.

9. Application Example

Voice control

APP control

Power Supply

Amplifier

DVD or Blu-ray Player

DVD or Blu-ray Player

UHDTV

WARNING – KEEP BUTTON BATTERIES OUT OF REACH OF CHILDREN

- If swallowed a lithium button battery may to lead to serious or fatal injury in as little as 2 hours, due to chemical burns and potential perforation of the oesophagus
- All button batteries must be kept away from children regardless if they are new or used.
- If you suspect your child has swallowed or inserted a button battery immediately call the 24-hour Poisons Information Centre on 13 11 26 (Australia) or 0800 764 766 (New Zealand) for fast, expert advise.
- If your child is having difficulty breathing contact 000 (Australia) or 111 (New Zealand).
- Dispose of used button batteries immediately and safely out of the reach of children. A battery can still be dangerous even when it can no longer operate the device.
- As soon as you have finished using a button battery, put sticky tape around both sides of it. This will make it harder for children to swallow the button battery and avoid the risk of the battery catching fire.
- Immediately dispose of button batteries immediately out of reach of children, or recycle using a child resistant container and take used cells to your local battery collection centre.