



CONCORD HDMI 4 Way Switcher User Manual

[Home](#) » [CONCORD](#) » CONCORD HDMI 4 Way Switcher User Manual 

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Contents

- 1 Introduction
- 2 Features
- 3 Package Contents
- 4 Specifications
- 5 Operation Controls and Functions
 - 5.1 Front Panel
 - 5.2 Rear Panel
 - 5.3 Side Panel
- 6 Echo connection and operation
 - 6.1 To set Voice Box and to connect Amazon Account
 - 6.2 To set Switcher and use APP control
 - 6.3 To activate Skills and connect product
 - 6.4 Echo voice command list
 - 6.5 Automatic switch features
- 7 IR Remote
- 8 FAQ
- 9 Application Example
- 10 Documents / Resources
 - 10.1 References
- 11 Related Posts

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 and n IR remote control.

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

Package Contents

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

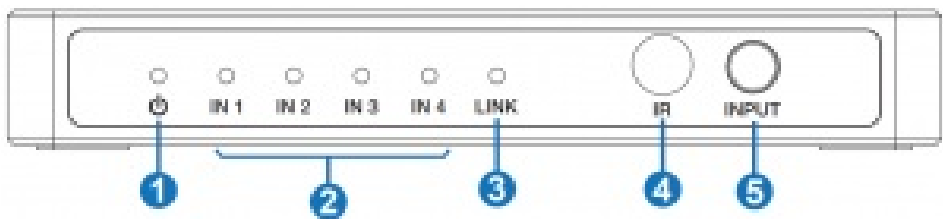
Specifications

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)

Operation Controls and Functions

Front Panel



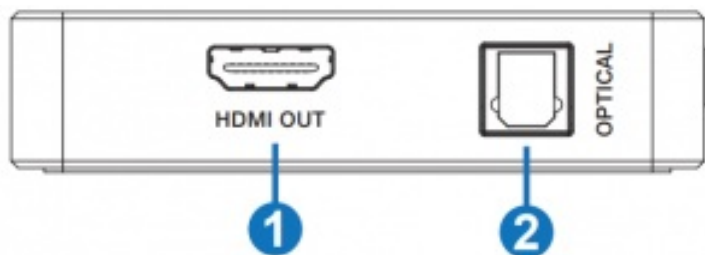
Number	Name	Function description
1	POWER LED	The LED will illuminate in red when the device is connected to power supply.
2	IN 1/2/3/4 LED	The LED will illuminate in green when HDMI OUT port is selected an input source.
3	LINK	Network connection LED. The LED will illuminate when the device connects network 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.

Rear Panel



Number	Name	Function description
1	RESET button	<p>Network connection and firmware upgrade button.</p> <ul style="list-style-type: none"> 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.

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.

Echo connection and operation

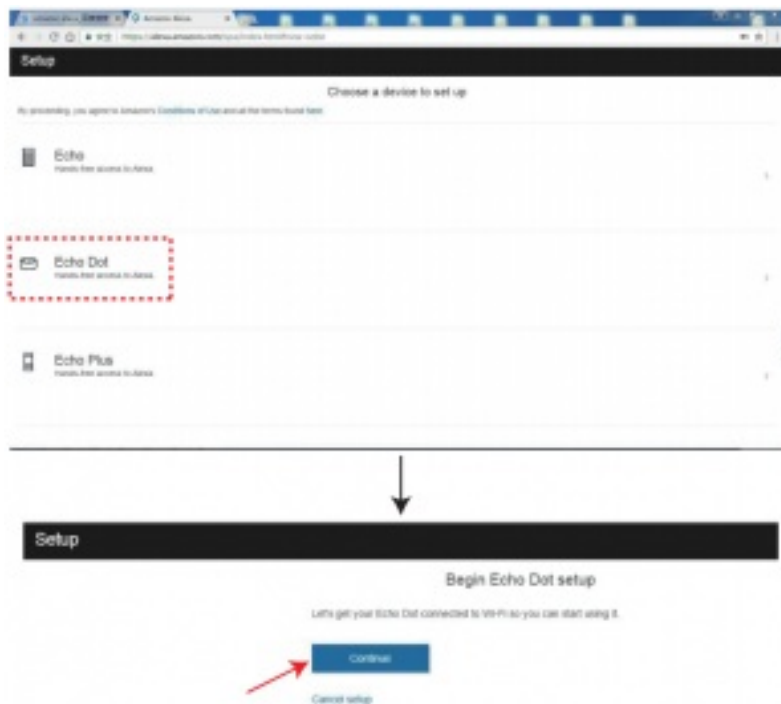
To set Voice Box and to connect Amazon Account

There are two ways to enter amazon Alexa login page.

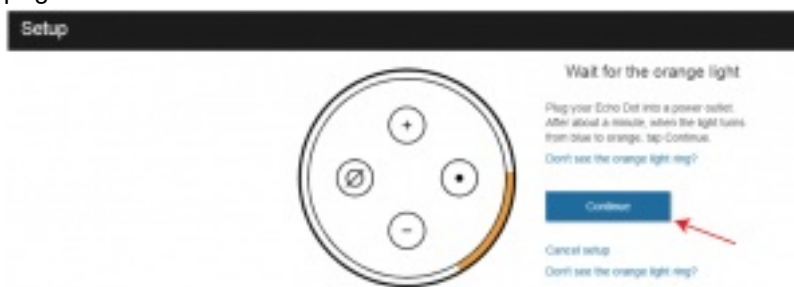
a. You can input the “<https://alexa.amazon.com>” web site to your PC/laptop/ mobile Internet Explorer and click “Search” to enter amazon Alexa page.

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:



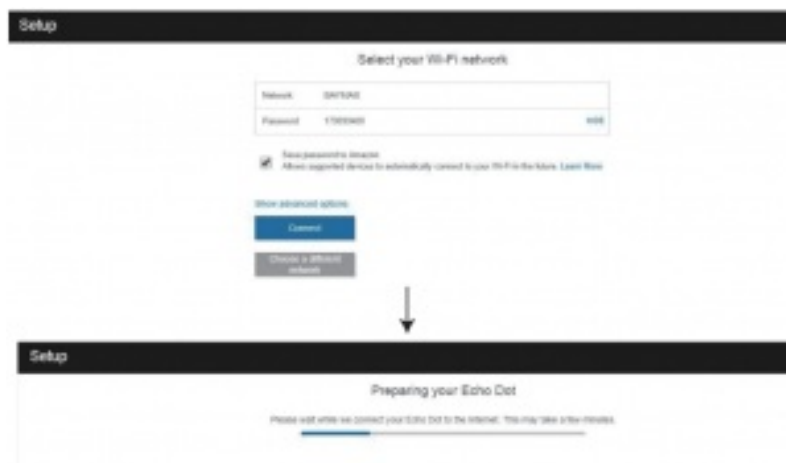
At this step, you need to power on your Echo Dot. When the blue horse race lamp is off, you need to press the 'round dot' button (the button on the right) until it appears yellow horse race lamp. Click the 'Continue' button. The page is show as below:



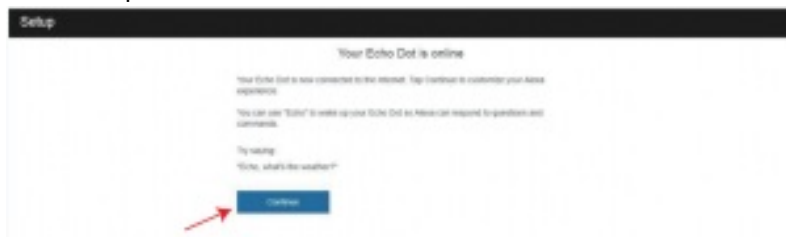
At this step, go to your Wi-Fi setting on this computer and select the network of the format 'Amazon-XXX' to connect it. After connecting to 'Amazon XXX', you can continue setup. These page are show as below:



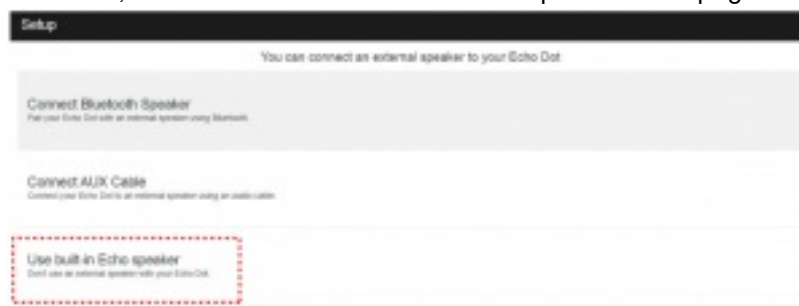
At this step, you need to select one available Wi-Fi network on this computer and connect it.



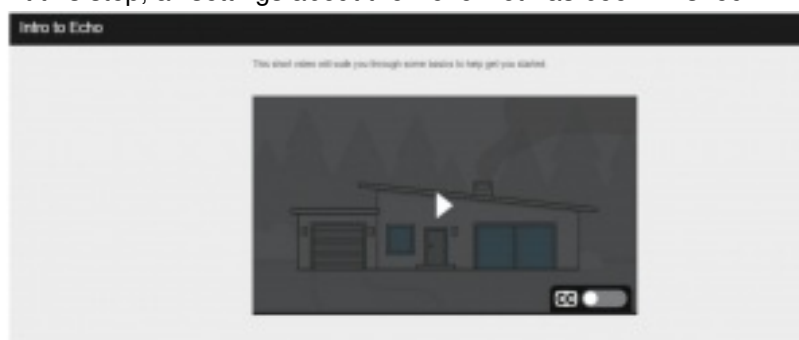
At this step, the Echo Dot is connected to the Internet. Click the 'Continue' button. The page is show as below:



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.



To set Switcher and use APP control

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



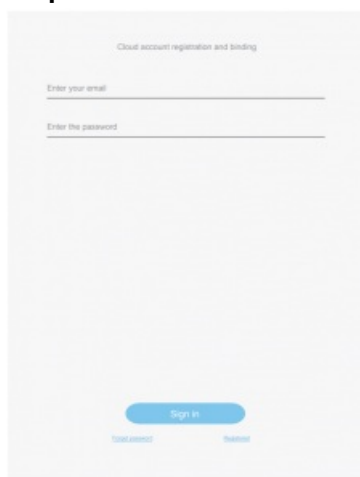
Click this APP icon, if you registered before, click “SIGN IN” to login, but if you have not register, please click “Registered”. Then you will see the following register page.

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

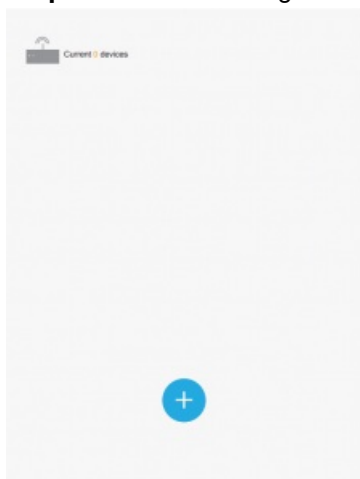
Step 1: Fill in these information and click “Create my account”. Then to enter login page.

A registration form titled "Cloud account registration and binding". It contains four input fields: "Email address", "Password", "Confirm password", and "Input verification code". The "Input verification code" field has a "2500x" label next to it. At the bottom, there is a blue button labeled "Create my account" and a link "Sign in with an existing account" below it.

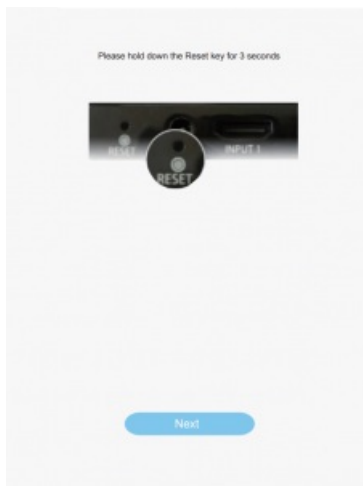
Step 2: Please enter the email and password before you have registered, and then click the “Sign in” to login.

A login form titled "Cloud account registration and binding". It contains two input fields: "Enter your email" and "Enter the password". At the bottom, there is a blue button labeled "Sign in" and two links, "Forgot password" and "Feedback", below it.

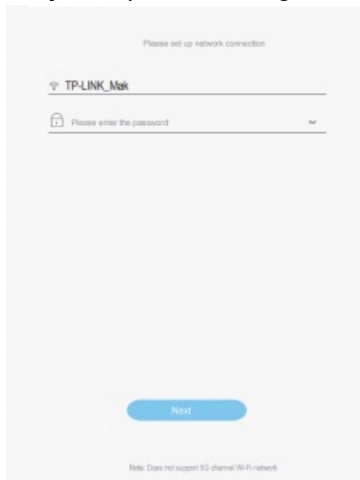
Step 3: Click the “+” sign

A screen titled "Current devices" with a plus sign icon in a blue circle at the bottom center. The screen is mostly blank, suggesting a list of devices that is currently empty.

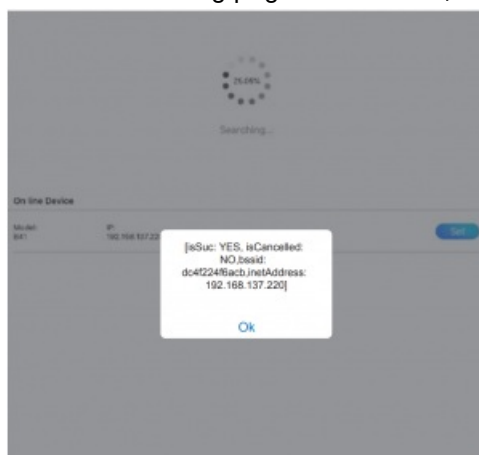
Step 4: Press and hold the “RESET” button for 3 seconds, then click the “Next” button.



Step 5: Input has recognized the Wifi password and then click the “Next” button.



Step 6: 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.



Step 7: Input the name of device and connecting source, click Submit. Then select Home to return for main page.

Name

Output Sink Name

Input Source Name

Input2 Source Name

Input3 Source Name

Input4 Source Name

Submit

- 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.



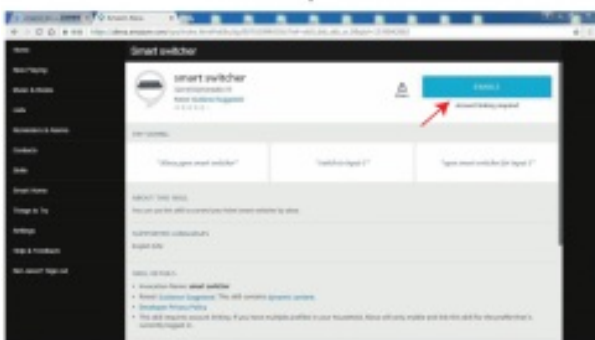
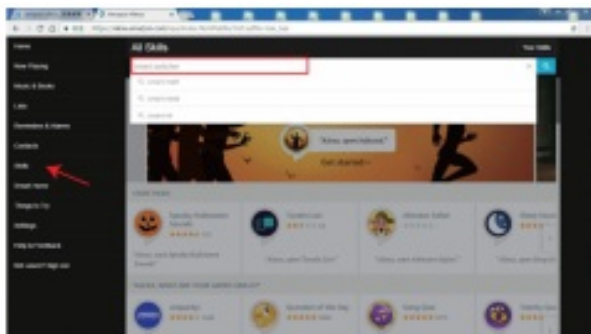
Click it to enter setting page, you can modify Sink name and Source name again. Click "Show me", the LINK LED will flash and "Show me" change to "Hide me". If you click it again to return to "Show me" and the LINK LED stops flash. This function is to find the corresponding device.



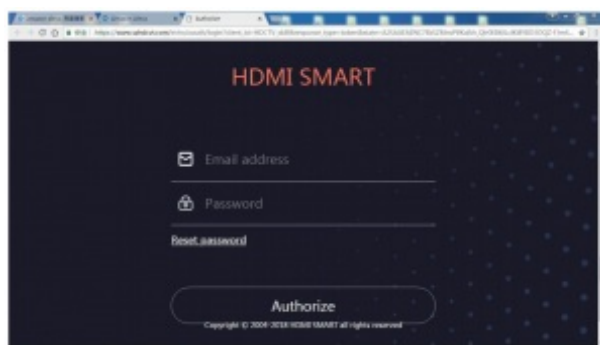
Push the corresponding button to control your device.

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.

Echo voice command list

Function	Voice command
Wake up product	open smart switcher
switch to input channel	<ul style="list-style-type: none"> • 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.)

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.

IR Remote



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



: Loop select input source to output display.

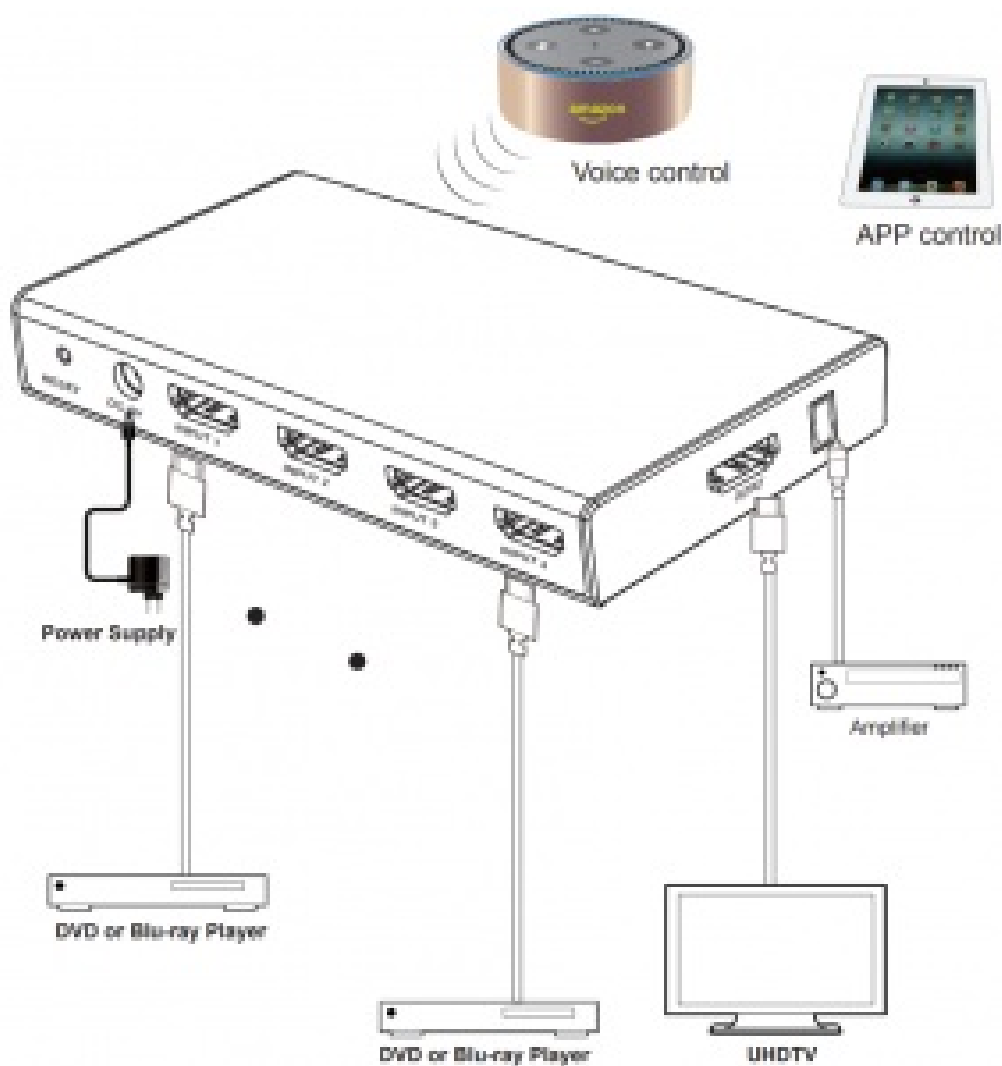
FAQ

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.

Application Example



Documents / Resources



[CONCORD HDMI 4 Way Switcher](#) [pdf] User Manual
HDMI 4 Way Switcher, CS4WH20B4KS-A

References

- [Amazon Sign-In](#)

Manuals+.