



Model : **ON-B41AI**

HDMI Switcher 4x1 with Voice/APP Control



User Manual

VER 1.0

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.

1. Introduction

This 18G HDMI switcher can switch any of these 4 HDMI 2.0 inputs to 1 HDMI 2.0 output. Each input and output supports up to 4K60 444 resolution and 10bits HDR (High Dynamic Range) pass through. 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 IR remote control.

2. Features

- ☆ HDMI 2.0, HDCP 2.2 / HDCP 1.4 compliant
- ☆ Support 18Gbps bandwidth
- ☆ Four 18G HDMI 2.0 video inputs support up to 4K60 444 resolution
- ☆ One 18G HDMI 2.0 video output supports up to 4K60 444 resolution
- ☆ Support 10bits HDR pass through
- ☆ Support connecting an amazon voice control (Please check “7. Voice Box Connection and Operation” detail description)
- ☆ Support “Smart switcher” APP control (Please check “7.2 Setting the Switcher and Using APP control”)
- ☆ Four methods of control: Front panel, IR remote, Voice Box and APP control
- ☆ Compact design for easy and flexible installation
- ☆ 5V 1A DC PSU

3. Package Contents

- ① 1x 18Gbps HDMI Switcher 4x1
- ② 1x 5V/1A DC Power Adapter
- ③ 1x Remote Control
- ④ 1x User Manual

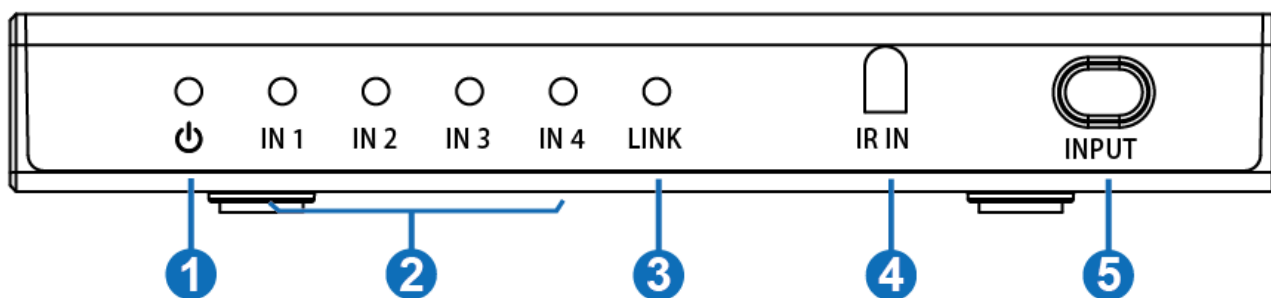
4. Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Bandwidth	594MHz/18Gbps
Video Resolutions	4K2K 50/60Hz 4:4:4 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All HDMI 3D TV formats

	All PC resolutions including 1920 x 1200, 3840 x 2160
Color Depth	8/10/12-bit (1080P60Hz, 4K30&4K60 YCbCr 4:2:0) 8-bit (4K60Hz YCbCr 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
ESD Protection	Human-body Model : ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Connections	
Input Ports	4×HDMI Type A (19-pin female)
Output Ports	1×HDMI Type A (19-pin female)
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	122mm (W) x 64mm (D) x 19mm (H)
Weight	230g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	1.45W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

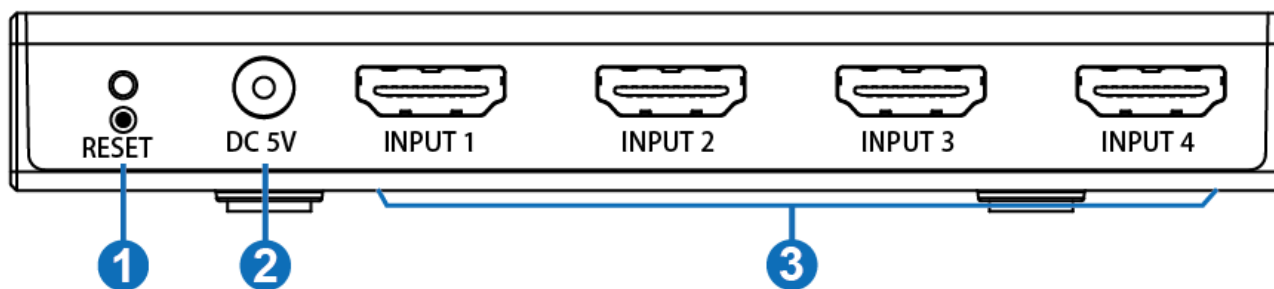
5. Operation Controls and Functions

5.1 Front Panel



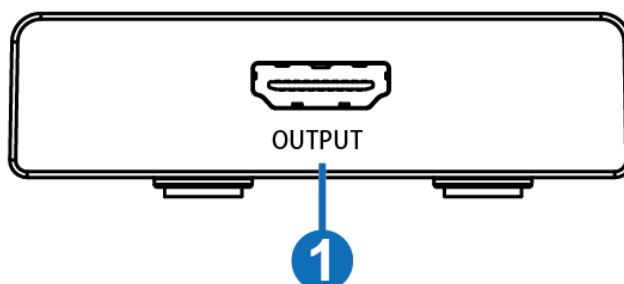
Number	Name	Function descriptions
1	POWER LED	The LED will illuminate when the device is connected power supply.
2	IN LED	These LEDs will illuminate when HDMI IN port are connected an active source device.
3	LINK	Network connection LED. The LED will illuminate when the device connects network signal.
4	IR IN	IR receiver window. It receives IR remote control from the product only.
5	INPUT button	Pressing this button will select IN1/IN2/IN3 input source to OUTPUT port.

5.2 Rear Panel



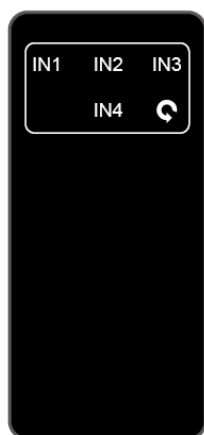
Number	Name	Function descriptions
1	RESET button	Network connection and firmware upgrade button. <ul style="list-style-type: none"> ▪ The product will enter network setting status when the button is pressed up to 3s. ▪ The product will enter firmware upgrade status when the button is pressed less 0.2s. (The FOTA to upgrade.)
2	DC 5V	Plug the DC 5V/1A power supply into the unit and connect the adaptor 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 descriptions
1	HDMI OUTPUT	Connect to one HDMI display device such as TV or Monitor with an HDMI cable.

6. IR Remote



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

 : Loop select input source to output display.

7. Voice Box connection and operation

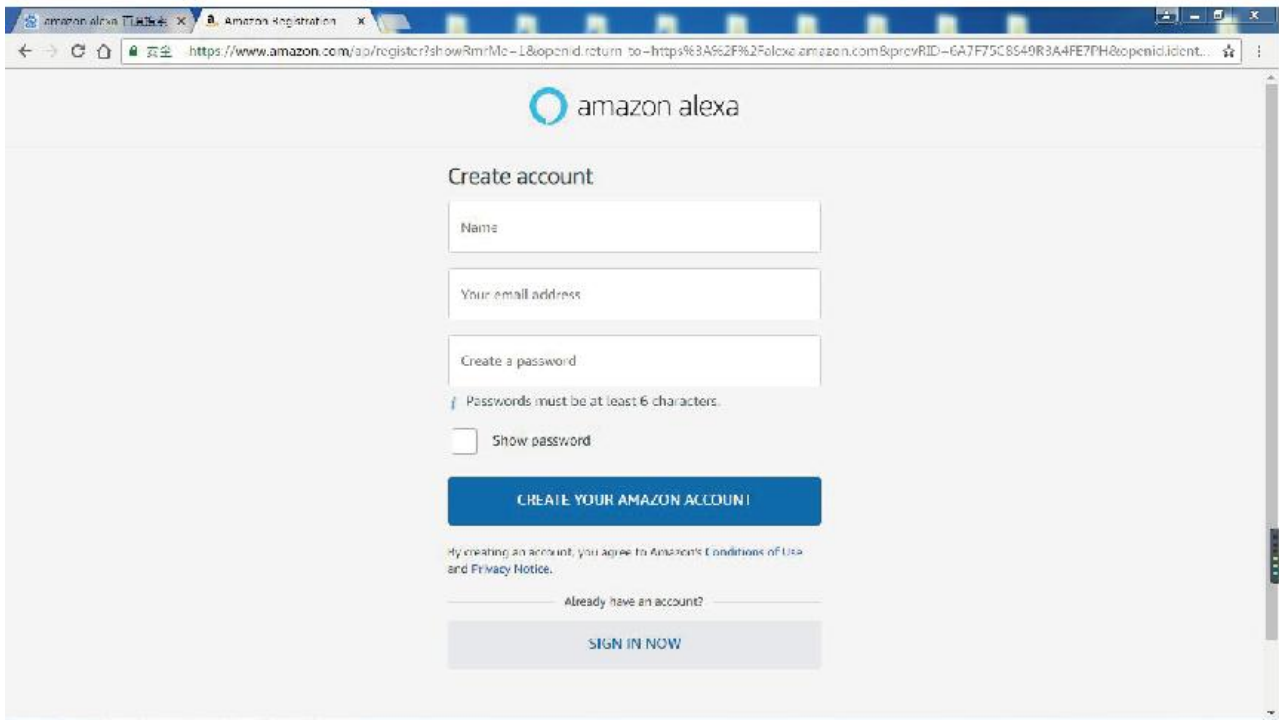
7.1 Setting the Voice Box

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.

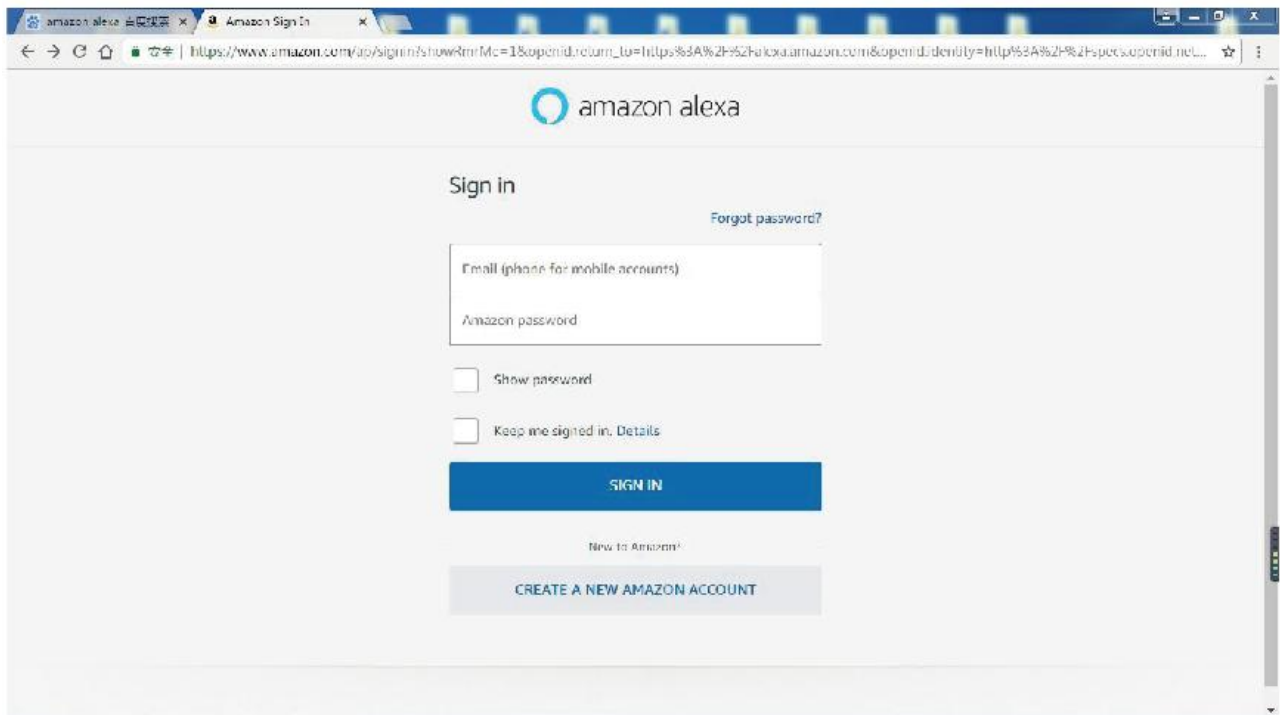
b. You can download and install the app “amazon alexa”. Turn on the app “amazon alexa” to enter amazon alexa page.

The login page of the amazon alexa is show as below:



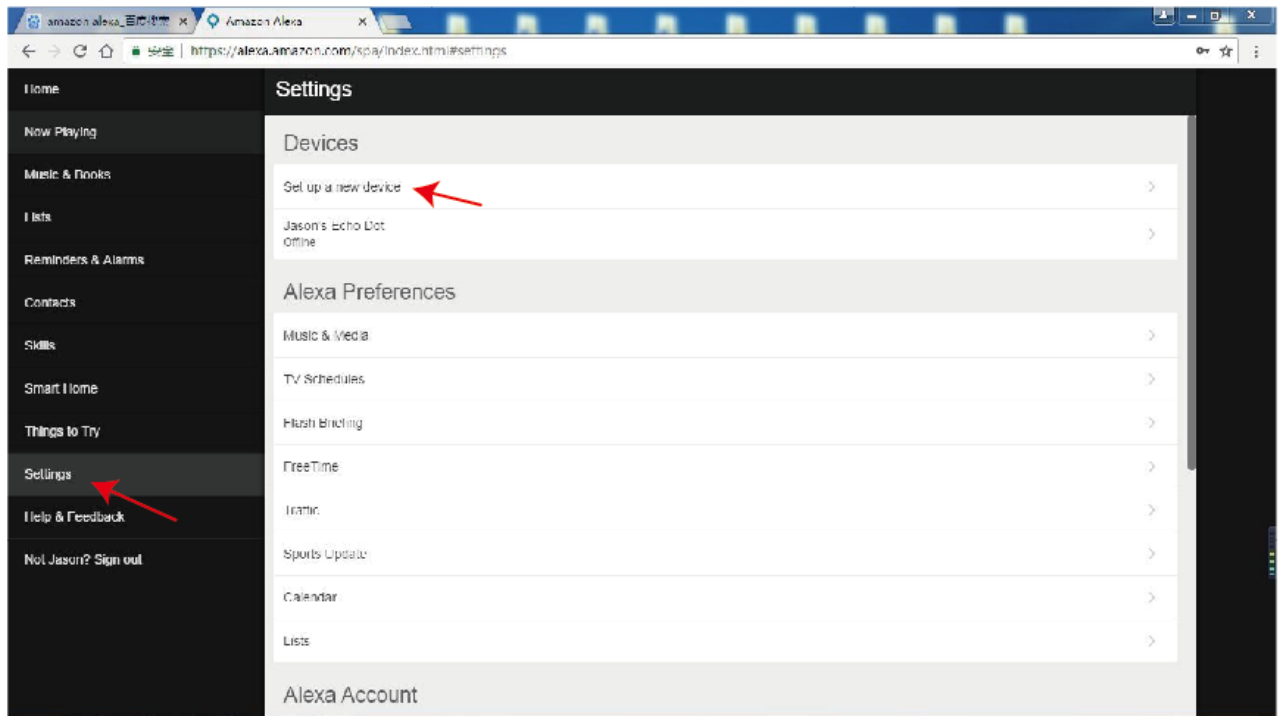
The screenshot shows the Amazon Alexa registration page. At the top, there is the Amazon Alexa logo. Below it, the heading "Create account" is displayed. The form contains three input fields: "Name", "Your email address", and "Create a password". Below the password field, there is a note: "Passwords must be at least 6 characters." and a checkbox labeled "Show password". A blue button labeled "CREATE YOUR AMAZON ACCOUNT" is positioned below the form. Underneath the button, there is a link: "By creating an account, you agree to Amazon's Conditions of Use and Privacy Notice." At the bottom of the form, there is a link "Already have an account?" and a grey button labeled "SIGN IN NOW".

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

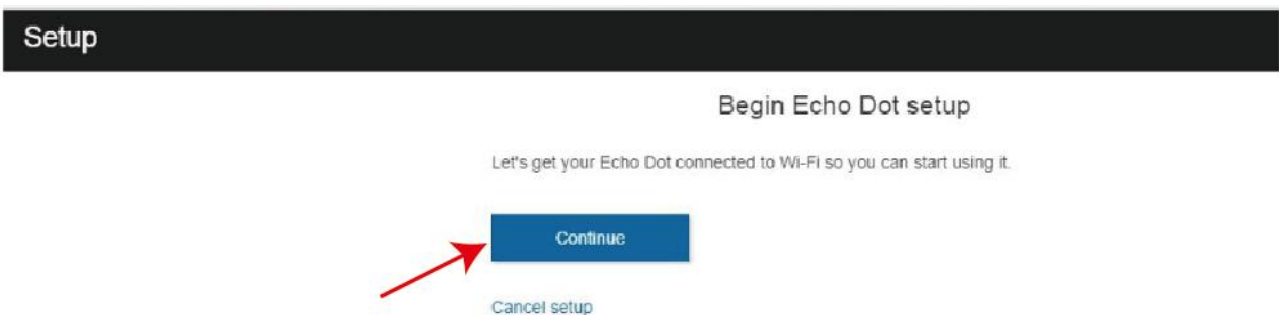
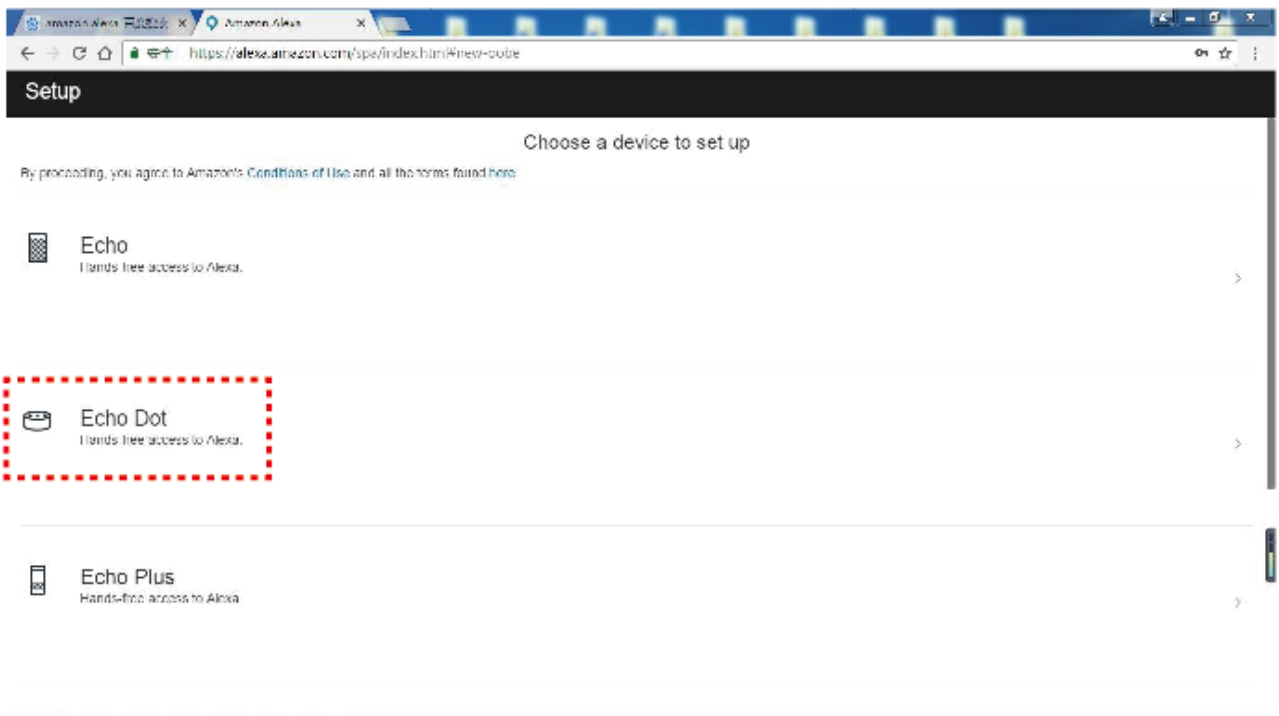


The screenshot shows the Amazon Alexa sign-in page. At the top, there is the Amazon Alexa logo. Below it, the heading "Sign in" is displayed. To the right of the heading, there is a link "Forgot password?". The form contains two input fields: "Email (phone for mobile accounts)" and "Amazon password". Below the password field, there is a checkbox labeled "Show password" and another checkbox labeled "Keep me signed in. Details". A blue button labeled "SIGN IN" is positioned below the form. At the bottom of the form, there is a link "New to Amazon?" and a grey button labeled "CREATE A NEW AMAZON ACCOUNT".

Sign in the account successfully, you will enter the following page. You need to setup a new device on the “Settings” page.

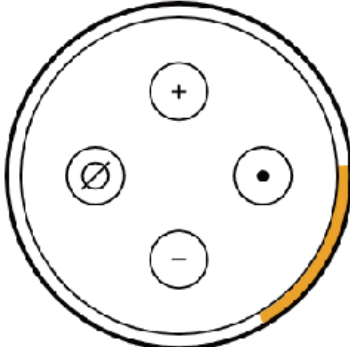


At this time, according to your speaker box to select one product. Our company uses the product about “Echo Dot”, and clicking the “Echo Dot” icon will setup the product at the next step.



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:

Setup



Wait for the orange light

Plug your Echo Dot into a power outlet. After about a minute, when the light turns from blue to orange, tap Continue.

[Don't see the orange light ring?](#)


Continue

[Cancel setup](#)

[Don't see the orange light ring?](#)

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 to setup. These page are show as below:

Setup



Connect your computer to your Echo Dot

Go to your Wi-Fi settings on this computer and select the network of the format Amazon-XXX. It may take up to a minute to display. After connecting to Amazon-XXX, you can continue setup.

[Cancel setup](#)

[Don't see the orange light ring?](#)

Setup

Continue Echo Dot setup

Your computer is connected to your Echo Dot. Tap Continue to scan for nearby Wi-Fi networks.

Continue

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

Select your Wi-Fi network

Network	BAYMAX
Password	179059400 HIDE

Save password to Amazon
Allows supported devices to automatically connect to your Wi-Fi in the future. [Learn More](#)

Show advanced options

Connect

Choose a different network



Preparing your Echo Dot

Please wait while we connect your Echo Dot to the Internet. This may take a few minutes.



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

Your Echo Dot is online

Your Echo Dot is now connected to the Internet. Tap Continue to customize your Alexa experience.

You can use "Echo" to wake up your Echo Dot so Alexa can respond to questions and commands.

Try saying:

"Echo, what's the weather?"

Continue



You can connect an external speaker to your Echo Dot. Our company does not use an external speaker to connect the Echo Dot, so I will select 'Use built-in Echo speaker'. The page is show as below:

You can connect an external speaker to your Echo Dot

Connect Bluetooth Speaker

Pair your Echo Dot with an external speaker using Bluetooth.

Connect AUX Cable

Connect your Echo Dot to an external speaker using an audio cable.

Use built-in Echo speaker

Don't use an external speaker with your Echo Dot.

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

This short video will walk you through some basics to help get you started.



7.2 Setting the Switcher and Using APP control

Please download a “Switch switcher” APP on you mobile phone, PC or iPad, etc.



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.

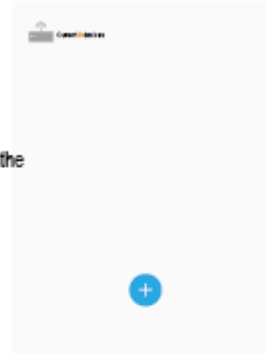
Step1: Fill in these information and click “Creat my account”. Then to enter login page.

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



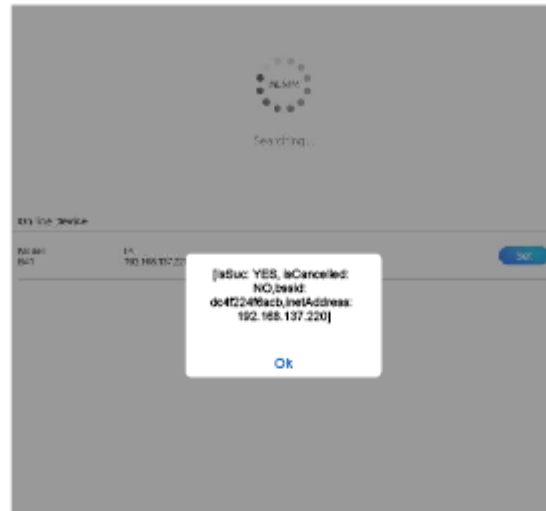
Step4: Press and hold the "RESET" button (on the rear panel of the switcher) for 3 seconds, then click the "Next" button.



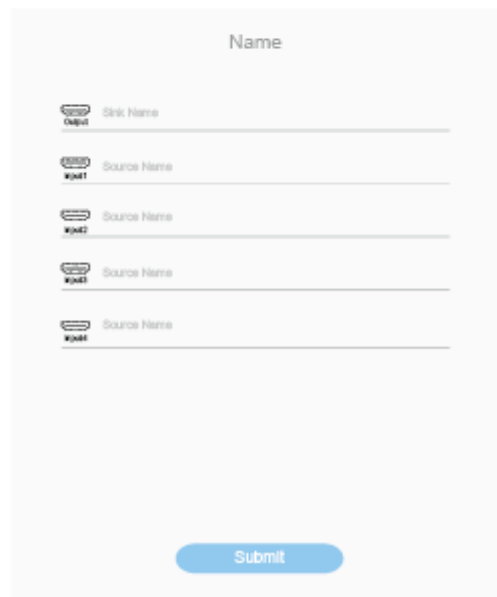
Step5: Input has recognized the Wifi password and then click the "Next" button.

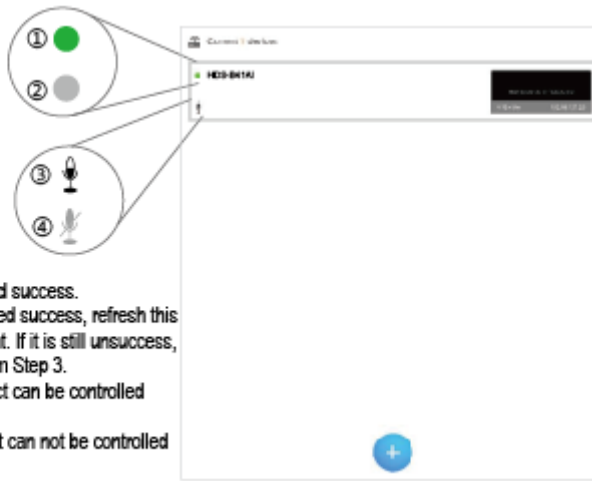


Step6: When you see this page, the Wifi has connected success, click "OK" button and then click "Set" button to enter the following page. At this time, the LINK LED is always light.



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 is still 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.



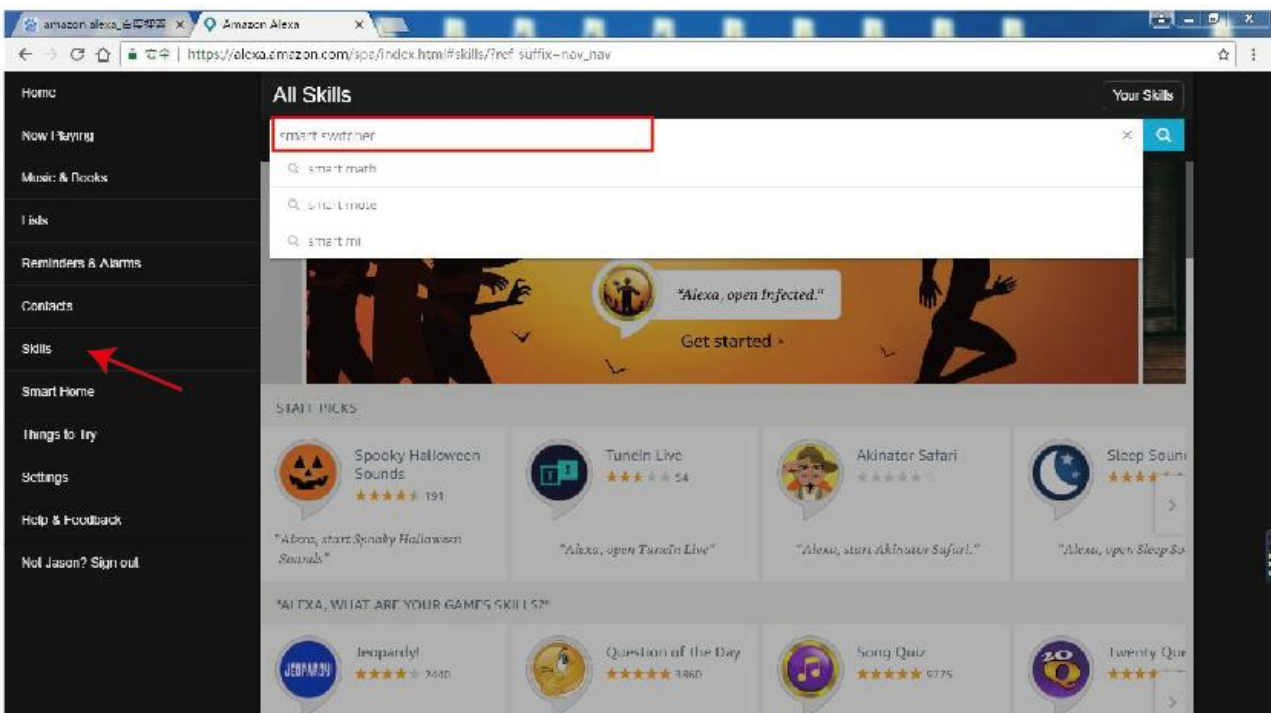
Push the corresponding button to control your device.

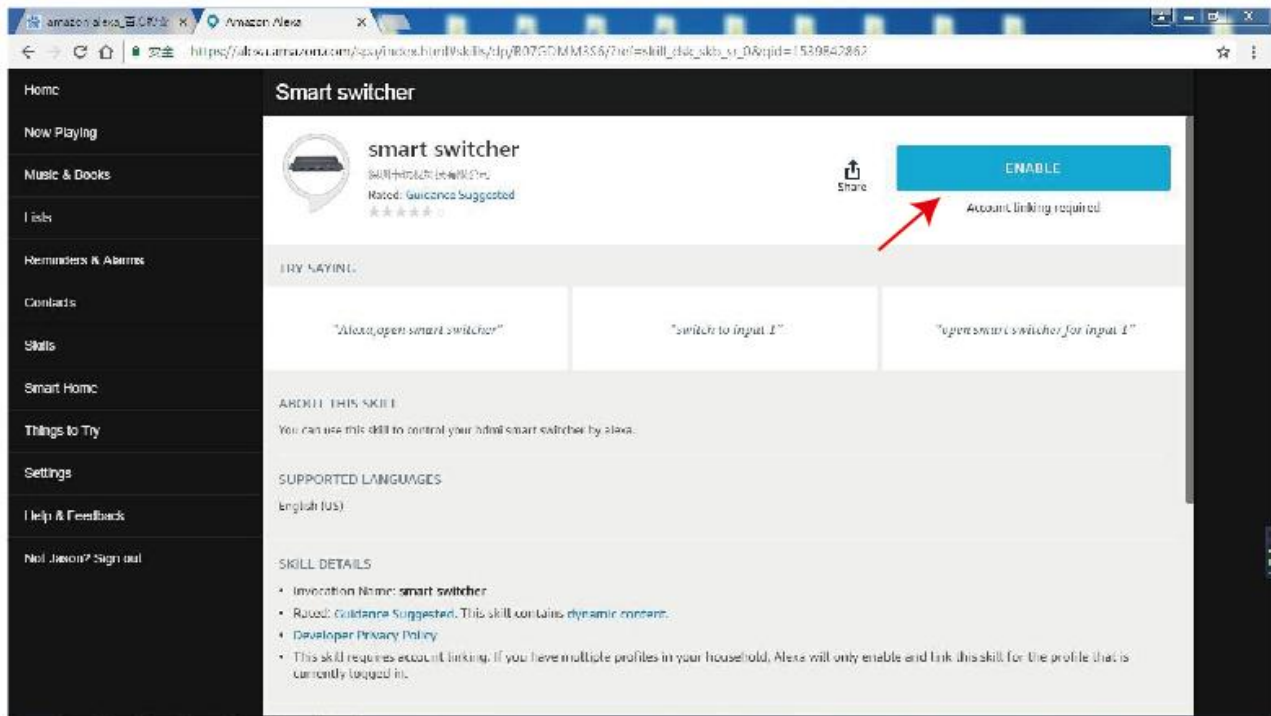
Click it to enter setting page, you can modify Sink name and Source name again. Click "Show me", the LINK LED will flash and "Show me" change to "Hide me". If you click it again to return to "Show me" and the LINK LED stops flash. This function is to find the corresponding device.



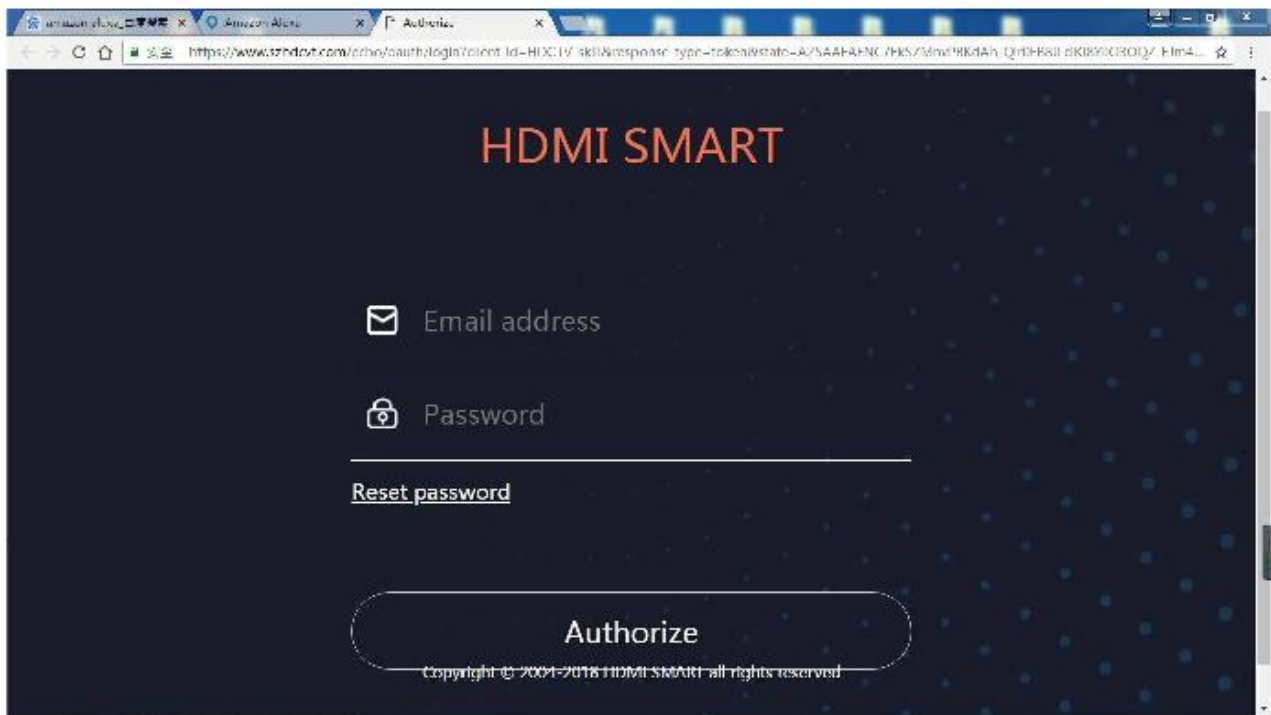
7.3 Activating the Skills

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.



7.4 Echo voice command list

Function	Voice command
Wake up device	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 the corresponding device name and speak it to switch input channel. For example: switch to 'apple tv'. (Please check "7.2 Setting the Switcher and Using APP control (Step 7)" description.)

7.5 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.

8. Application Example

