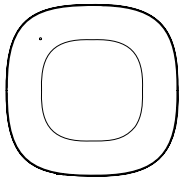


IR Transceiver User Manual

HKWL-IR02W

Note: If you have any questions about the APP or device, please click Profile ->Feedback to fill your feedback to us in APP.

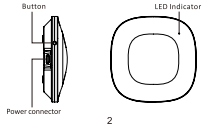
1. PRODUCT OVERVIEW

HKWL-IR02W is a Wi-Fi based IR Blaster. By adding or DIY learning the IR codes to the APP, It can remotely control any IR based home appliances like TV, airconditioner etc. anywhere anytime.

2.PRODUCT FEATURES

- Compatible with Amazon Alexa and Google Assistant
- Working in 802.11 b/g/n 2.4GHz wireless network (no hub required)
- Wi-Fi network configuration with EZ (Smart Config) and AP(Access Point) mode
- Remote control all your IR appliances through APP
- A full list of IR brands saved in IR codes cloud library
- DIY IR codes learning, control whatever appliance through your mobile
- Input: 5V 1A Micro USB
- CE, FCC, RoHS certified

3. PRODUCT STRUCTURE



Button activities and LED indicator:

(1) **Power connector:** 5V 1A Micro USB

(2) **Button:** Press and hold the button for 5 seconds to enter into Wi-Fi connection (or configuration). The LED indicator will blink rapidly (EZ mode) or slowly (AP mode). EZ mode connection is set as default in Wi-Fi configuration. Press and hold the button for 5 seconds will enable the device switch between EZ mode and AP mode.

(3) **LED indicator:** indicate the device working state
EZ/AP Mode: Indicator flash rapidly / flash slowly
Network connected, normal working state: Indicator keeps on
Network connected, sending data: Indicator flashes one time
Enter learning mode: Indicator turns off
Receive Learning IR code command: Indicator turns on

4. SPECIFICATIONS

Input voltage range	5V
Operating Current	110mA
Battery	Micro USB power adapter with 5V/1A
IR Emitting Wavelength	940nm
IR Distances	8M
IR Learning Distances	3CM
IR Angle	360°
IR receiving frequency	38 KHz
Radio Frequency	2.412-2.484GHz
WIFI standard	IEEE802.11b/g/n (channel 1-14)
Data transmission rate	11b:1,2,5.5,11(Mbps) 11g:6,9,12,18,24,36,48,54(Mbps) 11n:HT20 MCS0-7
Operating temperature	-10℃ ~ 40℃
Storage temperature	-20℃ ~ 60℃
Relative humidity	8% ~ 80%

5. INSTALL APP AND REGISTER AN ACCOUNT

5.1 Scanning the following QR code to download APP for Android and IOS System. Or you can download the APP named as "Smart Life" from Apple store and Google Play.

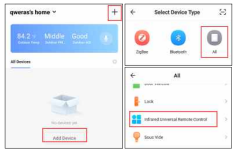
5.2 Launch the APP and register an account with your email address then login;

1) Download APP and install **2) Register the APP**

Android & IOS

6. ADD AND REMOVE DEVICE IN YOUR APP ACCOUNT

6.1 Launch the APP and login, Click ADD DEVICES -> All -> Infrared Universal Remote Control to start the device adding.

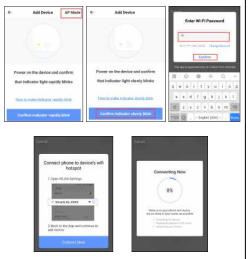


6.2 TWO WAYS TO ADD DEVICES

- EZ mode

Smart IR will blink fast in red when powered on in EZ mode. Input the password of the designated Wi-Fi network to include the device to Cloud. Waiting for around 30 seconds before the device inclusion process is complete.

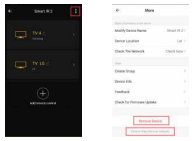
- AP mode
- Smart IR will blink fast in red when powered on. Press and hold the button for 5 seconds and then release. The LED indicator will blink slowly in red. Choose AP Mode, select the Wi-Fi network your mobile is connected to and enter the Wi-Fi password. Select the Device AP name with SmartLife-xxxx in Wi-Fi list then back to App to finish the device adding.



6.3 Users can re-name or share the device after Wi-Fi connection is finished.
Make sure the device is working in EZ/AP mode, if the APP works in EZ/AP mode.

6.4 Remove device

(1) Click "⋮" to enter into next interface as shown in picture below, Click "Remove Device" to delete this device from APP; click "Restore manufacturer Defaults" to remove the device from APP.

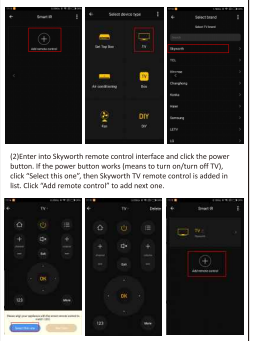


(2) After remove device or Restore manufacturer defaults from the APP, repeating the Wi-Fi network inclusion steps to include the device to a new Wi-Fi network.

7.SEARCH AND ADD IR CODES

7.1 Adding IR Codes from existing brand list

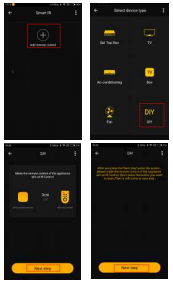
1)Enter into Device user interface after network inclusion, then press "⊕" and you can search and add the IR remote controller of Set-Top Box (STB), TV or air conditioner etc. from the existing brand list in the APP, here are Skyworth TV as example.



(2)Enter into Skyworth remote control interface and click the power button. If the power button works (means to turn on/turn off TV), click "Select this one", then Skyworth TV remote control is added in list. Click "Add remote control" to add next one.

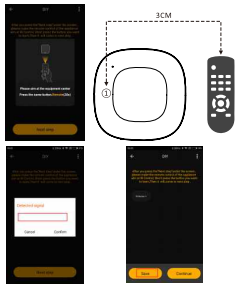
7.2 Add IR codes by DIY learning

(1)Click "DIY", then click "Next step" to enter into DIY learning mode.

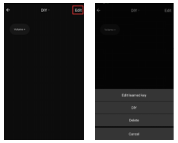


(2)On DIY learning, place remote controller at position ① on the smar t IR blaster (shown as below picture) within 3 CM so that the IR codes could be completely learned. Then short press the button that you wa nt to learn on remote controller. It will come into next step after DIY le arning is finished. Name this button and save it.

Note: Short press means press the button in IR remote controller shortly (Press then release in 0.5 to 1 second)



(3)Click "Edit" on upper right corner of DIY interface to make changes.



8. QUICK GUIDE OF USING AMAZON ECHO TO CONTROL SMART DEVICES

8.1 What you need to get started

Before using Echo to control your smart devices, please make sure that the following conditions are met:

- Stable Wi-Fi network which could access to Amazon server.
- An Echo device, such as Echo, Echo Tap, or Echo Dot.
- A valid Amazon Alexa account.
- Smart life APP and a registered account.
- At least one device under your Smart life account.

8.2 Add devices in Smart life app (Refer to App Instruction)

You can skip this part if you've already added some devices to your Smart life account.

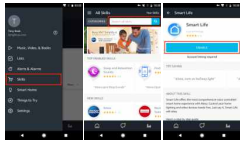
- **Download Smart life app(Refer to App Instruction)**

Search "Smart life" in App Store or Google Play to install the app.
iOS version download: **App Store**
Android version download: **Google Play**

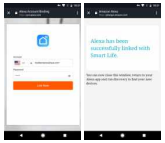
- **Register a Smart Life account and sign in the app (Refer to App Instruction)**
- **Add device and re-name the device (Refer to App Instruction)**

8.3 Link Smart life account to Echo

1) Tap "Skills" in the hamburger menu, then search "Smart Life".
Select "Smart Life" and tap "ENABLE" to enable the Skill.



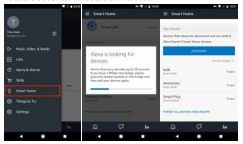
(2)You will be re-directed to the account link page. Type in your Smart life account and password, don't forget to select the country/region where your account belongs to. Then tap "Link Now" to link your Smart life account. The country/region, the account, and the password must Match exactly/be the same with the Smart life account.Close the window when "Alexa has been successfully linked with Smart Life" notice is prompted out.



8.4 Control your smart devices through Echo

- **Discover devices**

Echo needs to discover your smart devices for voice control. You can say "Alexa, discover devices" to Echo. Echo will discover devices which have already been added in the Smart life app.
You can also tap "DISCOVER" to discover the smart devices. Discovered devices will be shown in the list.



Note:

- ★ Echo needs to go through "Discover" again after the device is re-named on Smart life APP.
- ★ If the Echo cannot find the devices added in Smart life APP, please disable the Smart Life skill first and go through the Smart Life skill "ENABLE", APP account login and device discover again to make Echo voice control work.

- Voice control your devices

Now you can control your smart devices through Echo. Here below is an example of how to voice control the device "TV"with Echo:

- ★ Alexa, turn on/off TV
- ★ Alexa, channel up/down on TV
- ★ Alexa, volume up/down TV

9. QUICK GUIDE OF USING GOOGLE HOME TO CONTROL SMART DEVICES

9.1 Control your smart devices through Google Home

Before using Google Home to control your devices, make sure the following conditions are met:

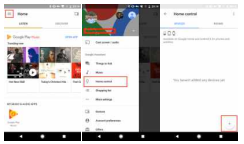
- A Google Home device, or Android phone with Google Assistant.
- Latest Google Home app.
- Latest Google app (Android only)
- A Google account.
- The device display language must be set to English US.
- Smart life app and a related account.
- Smart devices.

9.2 Add devices in Smart life app (Refer to App Instruction)

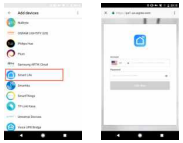
You can skip this part if you've already added some devices to your Smart life account. And refer to 8.2 Add devices in Smart life app for adding devices in Smart life APP.

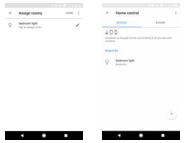
9.3 Link Smart life account in Home Control

(1)Tap "Home Control" in the hamburger menu on the Google Home app's home page, then tap "+".



(2)Find "Smart Life" in the list. In the new window, select your Smart life account's region, type your Smart life account and password, then tap "Link Now". After you assign rooms for devices, your devices will be listed in the Home Control page.





9.4 Control your smart devices through Google Home

Now you can control your smart devices through Google Home. Here below is an example of how to voice control the device "TV" with Google Assistant:

- ★ Ok Google, turn on TV
- ★ Ok Google, turn off TV

10.FCC NOTICE (for USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference
(2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

11. FAQ

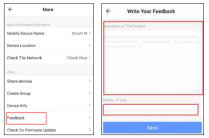
Q: The device fails to be added in account?
A: 1. Make sure the Wi-Fi network is 802.11 b/g/n 2.4GHz;
2. Make sure the device works with APP in same Wi-Fi Configuration mode: EZ or AP;
3. Make sure the input SSID and password of the Wi-Fi network are correct;
4. Make sure Wi-Fi internet connection is working fine;
5. Make sure the device is powered on;

Q: The device can't control remote control devices
A: 1.Make sure the device is in your Main Device List in APP;
2.Make sure the brand of IR code you added in the APP matches the actual brand of remote controller well.
3. Make sure the device is powered on;
4. Make sure the Wi-Fi internet is work fine;
5. Make sure the Mobile phone internet connection is available;

Q: The device does not work with Alexa or Google Home?
A: 1. Make sure the device is added in your Device APP;
2. Make sure your device is linked to Alexa or Google Home account;
3. Make sure your Alexa devices or Google Home devices are working fine;
4. Make sure the device is working fine in Device APP;

Q: Why I can use Google action successfully before but now is failed?
A: Claimed by Google policy that Google can't provide Google action service to Chinese account, therefore Chinese account is unsupported to use Google action. Chinese account will receive according message during account authorization. If customer in China mainland want to use action service, please use non-Chinese account.

If you have any questions about the APP or device, please click Profile -> Feedback to fill your feedback to us in APP



Or Check the Profile -> FAQ to find some answers