TATA POWER EZ HOME

The Tata Power Company Limited

SMART INFRARED (IR) BLASTER

ITEM： SI02-1-2

ITEM DESCRIPTION: SMART INFRARED (IR) BLASTER SI02-1-2 (INBUILT UART WIFI MODULE GWF-KM26)

VERSION：V1.0

DATE：2025-05-13

1. Product Instruction

1.1 Product Overview

The smart IR blaster should be used in conjunction with “Tata Power EZ HOME” APP. The device allows you to control your home appliances anytime and anywhere, making your home more secure and more convenient. You can schedule the smart IR blaster device to automatically control IR based appliances as needed, like switch ON AC at night & switch OFF AC at sunrise & temperature/speed control of appliances. Amazon Echo or Google Home lets you control devices connected to the smart IR blaster using just your voice.

You can configure remote on your EZ Home mobile app with support of smart IR blaster for controlling TV, Fan, Set-top Box and Air Conditioner

1.2 Product Appearance

SI02-1-2 Smart IR Blaster appearance:

Fig 1

1.3 Product Function

- Infrared remote control, support IR controlled air conditioners, Fan, TV & Set-top box

- Work with Amazon Alexa and the Google Home, control your devices via voice.
- Advanced Wi-Fi access technology, users configure network one step intelligently by APP
- Control home appliances from anywhere by APP with Wi-Fi access (Local and Remote)
- Device interaction
- Multiple users control
- User-define scenes- Group control
- Support STA and AP work mode
- Support 2.4GHz Wi-Fi
- Cloud IR code match for air conditioners, Fan, TV & Set-top box

1.4 Universal Remote Control

The smart IR blaster enables you to control all Infrared (IR) enabled models of air conditioner, Fan, TV, Set-top box by single smart phone in the home.

After setup, the SI02-1-2 will act as a universal remote control to extend IR remote control functions support for air conditioners, Fan, TV and Set-top box and improve application scenarios, which makes life more convenient and comfortable.

- Most of the IR enabled air conditioners, Fan, TV and Set-top box can be controlled remotely from your smart phone
- Add Home Appliances through Brand or Easy Custom Learning

1.4 Works with Alexa and the Google assistant

The smart IR blaster works with Amazon Alexa and the Google Home, you can manage your devices through voice control like turn ON/OFF or temperature/speed change. Assign a name to each IR enabled home appliance and communicate with smart IR blaster by name when making a voice command.

2. Mechanical Structure Information

2.1 Product Appearance

SI02-1-2 Smart IR Blaster appearance:

Fig 2

2.2 Product Specification

Parameters	Details
ON/OFF control	App
Wireless Connection	Wi-Fi 2.4GHz
RF Module	GWF-KM26
Rated Voltage	5VDC
Rated Current	1A
IR Blaster Input	Micro USB Type B
Standard	India
Material	PC flame retarding
Fire Rating	UL 94
Shell Dimension	65mm (diameter) * 20mm (height)
Operating Temperature	-10ºC~ +50ºC
Operating Humidity	20%~85% (No condensing)
WiFi Range	30 meters indoor, 45 meters outdoors
APP Support	Support Android6.0 and iOS11.0 or above

3. Operation Instruction

3.1 Operation Instruction

Power ON the Smart IR Appliance by 5V/1A DC input Power Supply through Micro USB Type B Cable

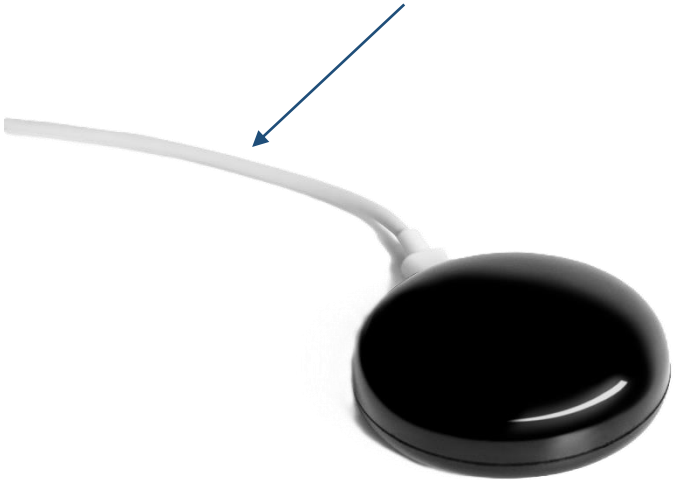


Fig 3

No.	Function	Details
1	Manual control button	1. Click the button to power ON or power OFF 2. Restore factory settings: Press button 5 seconds till Wi-Fi indicator flashes fast.
2	Wi-Fi indicator (Blue)	1. Wi-Fi indicator keeps ON stable when Wi-Fi connected successfully. 2. Wi-Fi indicator flashes when Wi-Fi connection failed or connected abnormal.

3.2 APP Information

The APP is compatible with Android6.0 and iOS11.0 or above system. iOS users could search the APP in App Store. Android users could search the APP in Google Play.

APP English name: "Tata Power EZ HOME".

Tata Power EZ HOME

(QR code TATA Power EZ Home for both Play Store & App Store)

3.3 Wi-Fi Configuration

Once connection successfully, the device will work in two work mode.

Work Mode	Wi-Fi Control	Direct Control
APP local control	Yes	Yes
APP remote control	Yes	N/A
Alexa/the Google assistant	Yes	N/A

*After connection successfully, users can set work mode in APP.

3.3.1 Add device in Easy mode

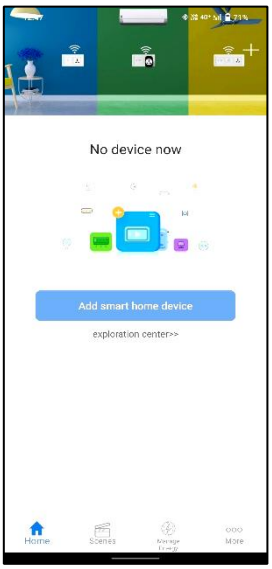
Wi-Fi networking configuration for smart IR blaster is convenient and rapid, mobile could be connected to the designated router quickly, and the whole process is generally less than 15 seconds.

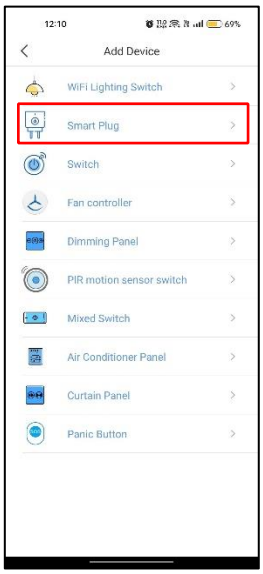
Make sure smart IR blaster is powered on. (The Smart Blaster only supports 2.4 GHz Wi-Fi router)

Configuration process:

Step 1, power ON the smart IR blaster, search in App store/Google Play or scan QR code to install APP, connect mobile phone to 2.4GHz Wi-Fi.

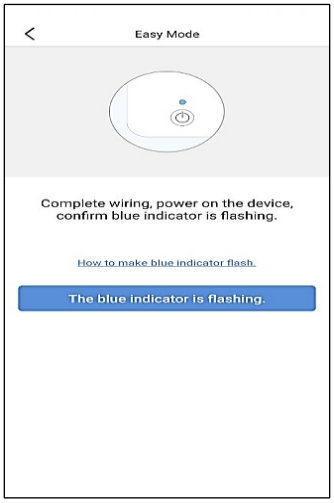
Step 2, open APP to click “+” to select device, select “Smart Plug".



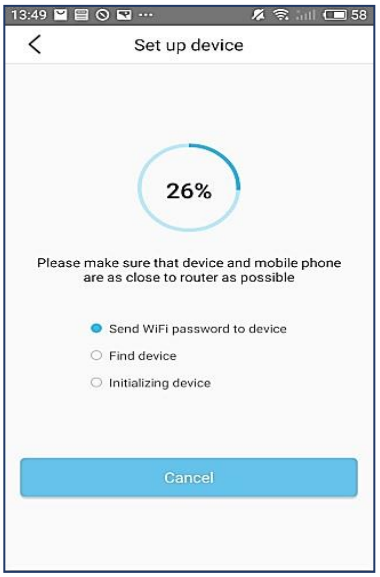


Step 3, enter “Networking” interface, input current Wi-Fi SSID & password, click “Configure signal”.

Step 4, once the smart IR blaster is powered ON, if blue indicator flashes quickly, please confirm directly. If not, please reset device: long press ON/OFF button 5 seconds until blue indicator flashes quickly. If yes, please confirm and process next step “Blue indicator is flashing”.



Step 5. Configuration of Smart Blaster is in progress



3.3.2 Add device in AP mode

Remark: This configuration is a supplementary configuration way, if you failed configuration in Easy mode, please try AP mode to add device.

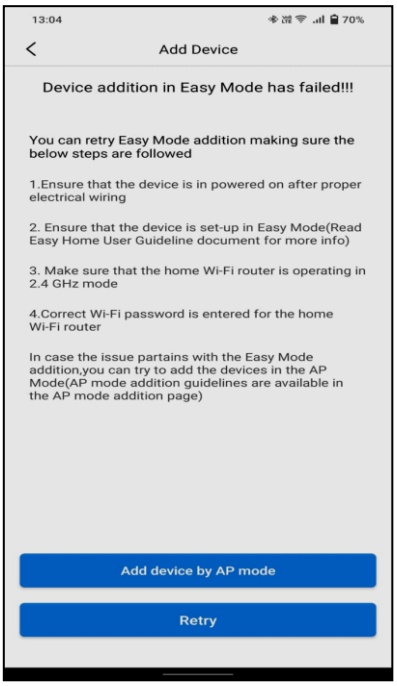
Step1. If the configuration in easy mode failed, you will find following page, Click “Add device by AP mode” button to add device. Please confirm the blue indicator starts flashing slowly before that.

Step2. According to page prompt, go to WLAN setting in your smart phone and click to “Connect to device Wi-Fi” and then select the “TAPlug_XXXX (last 4 characters are 4 digit numerical Device ID number)”, no need to input password.

Step3. Once you select the “TAPlug_XXXX”, go back to app, click to select Wi-Fi and input password, click “Next Step” to start connection. Once devices configured successfully, you will find it in device list.

Remark:

1. If there is no WiFi around smart device, you can click select ”direct control”, and the smart switch will work in direct control work mode, in this mode, APP can only local control for the smart switch.

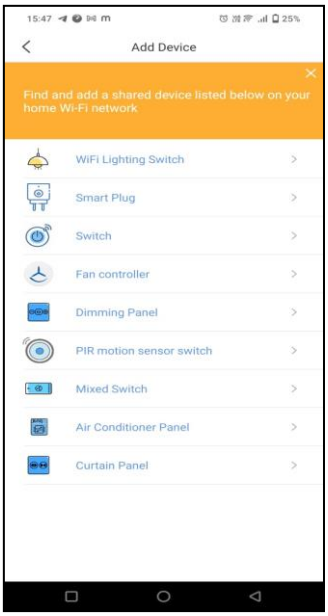


3.3.3 Shortcut Configuration

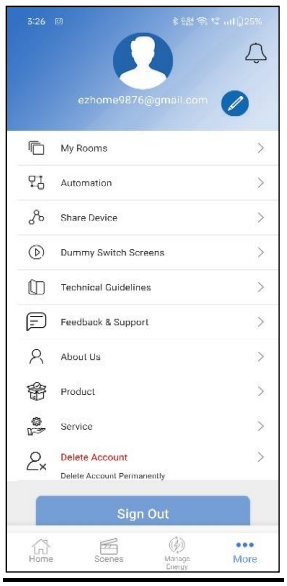
If the device has been configured and work in Wi-Fi control mode, users who want to control the smart IR blaster just connect the mobile to Wi-Fi, the device connected, then open the APP, click “+” then enter to click orange prompt message to add device, after configuration, users can local control and remote control the smart IR blaster. Subject to “Share Device” mode enabled for Smart Blaster.

Remark:

1. Only administrator can turn ON sharing mode, administrator is the first user account who connected smart switch.
2. Sharing mode is enabled by default, if the administrator closes the sharing mode in setting, the users can't find device via this configuration.
3. Sharing mode only work in Wi-Fi control work mode, sharing mode focus on account in the same Wi-Fi, if administrative open sharing mode, other users also could search smart IR blaster in the same Wi-Fi without restoring factory settings.



3.3.4 Share Configuration



If the device has been configured in STA mode, administrator can share the device to users to help their configure device, the users who configure switch just need to keep mobile in Wi-Fi 2.4GHz network.

Remark:

1. Only administrator can share device with other account
2. The users who is shared with smart IR blaster will receive prompt message in APP but do not have permission to share others again.
3. The user who is shared with modular smart Wi-Fi switch could local or remote control the smart light.

3.4 Wi-Fi Work Mode

Smart IR blaster Wi-Fi work mode is Wi-Fi control/Direct control.

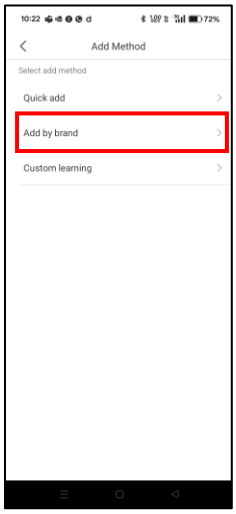
If there is Wi-Fi network in the usage scenario, the smart IR blaster supports two work mode.

Wi-Fi control work mode: connect mobile phone to home Wi-Fi router firstly, users need to input correct Wi-Fi password in " EZ HOME" APP, when the device receive the router broadcast, it connect to network automatically, which support local control and remote control. Smart IR blaster works in Wi-Fi control work mode for default. In this work mode, there must be good Wi-Fi network coverage around the smart IR blaster; mobile phone can connect to Wi-Fi or 4G.

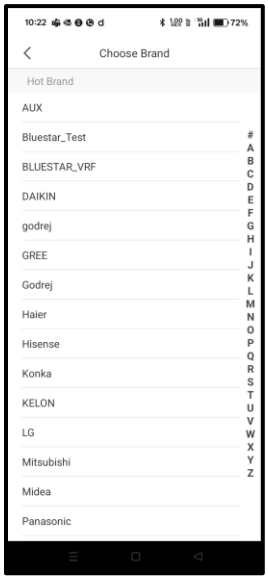
Direct control work mode: when there is no Wi-Fi around the smart IR blaster, mobile phone is connected to smart IR blaster Wi-Fi directly. Mobile phone connects to the smart IR blaster signal "TAPlug_XXXX", then choose "direct control" in networking page.

3.5.1 Add by brand

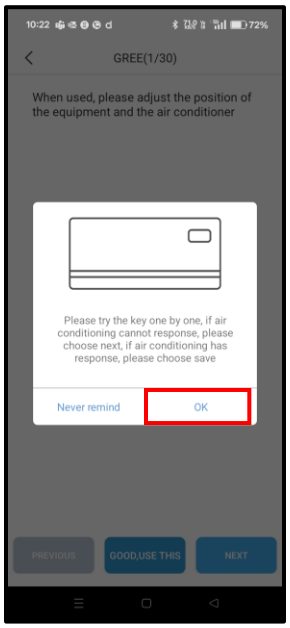
1. Click Add by brand



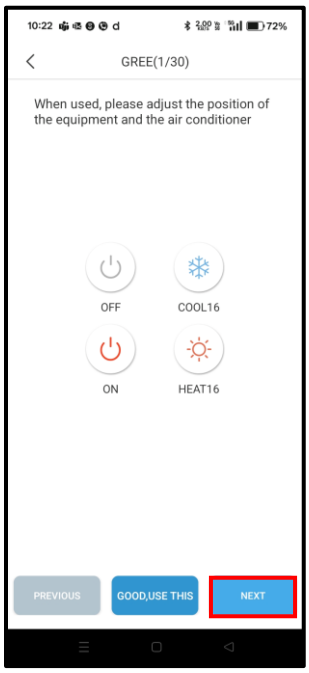
2. Select the brand



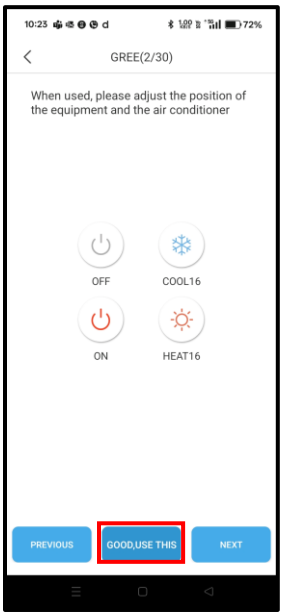
3. After selecting the brand, a pop up will appear to choose correct remote for controlling operation. Press OK"



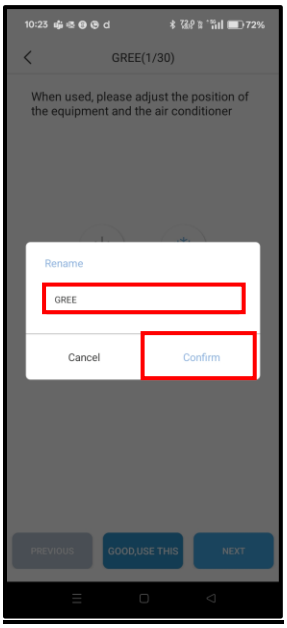
4. Click every button to verify the operation, if not working for the current UI, please select the option "NEXT"



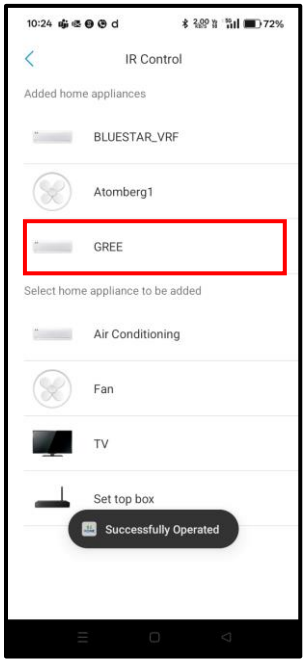
5. A new UI will appear, repeat the step 4 until the operation is performed. Upon successful operation, click "GOOD, USE THIS" to select.



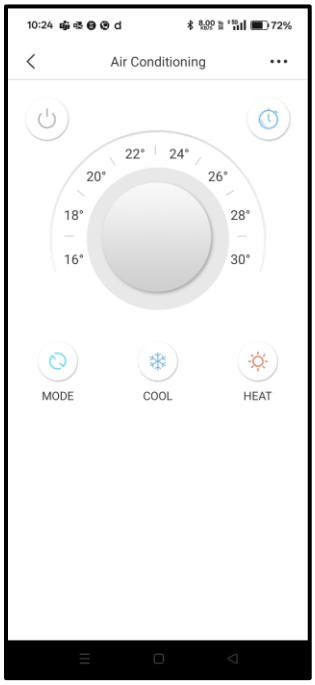
6. Rename the IR remote, then click "Confirm"



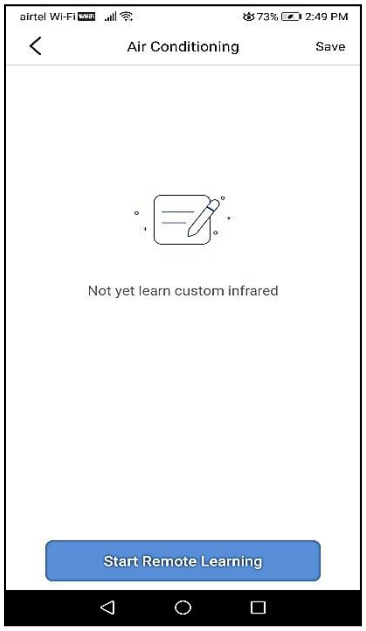
7. The updated UI will be displayed in "Added home appliances" based on step 6. Select it to control the relevant IR enabled appliance.



8. After selection, the relevant UI will be displayed & can be used to control the IR enabled appliance



3.5.2 Custom Learning add (most preferred)



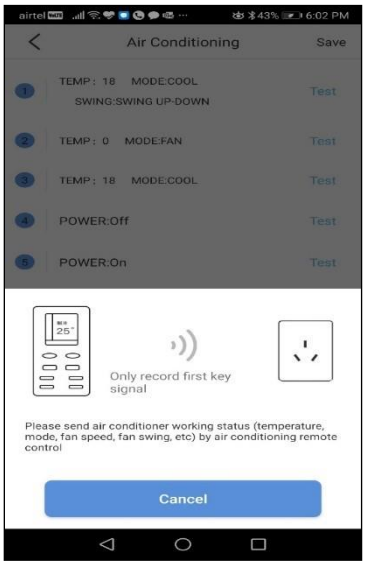
1. Click “Start Remote learning”

2. According to page prompts: Please send the status of air conditioner you want (such as temperature, mode, air flow, wind direction, etc.,) to the smart IR blaster by using the remote control.

Notes:

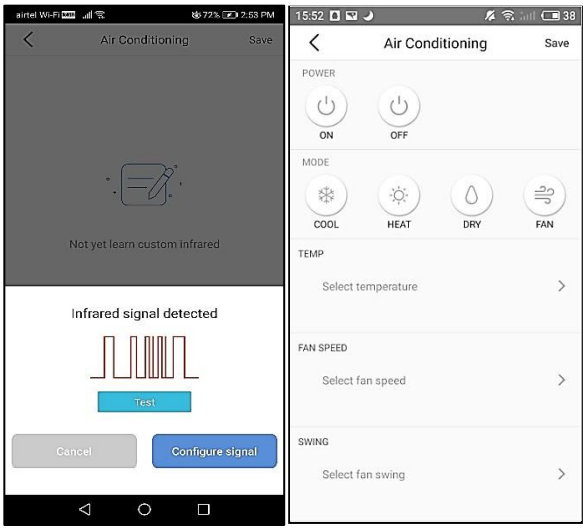
* The first time you press the button on the air conditioner remote control, the status displayed on the remote control is what the smart IR blaster receives at that time.

* The smart IR blaster can only receive the current status (including temperature, mode, air volume, wind direction) displayed on the physical remote control device after the user presses the button for the first time, that is, if the user then keeps pressing for many times, it only receives the same status as the first time unless saved in app interface.

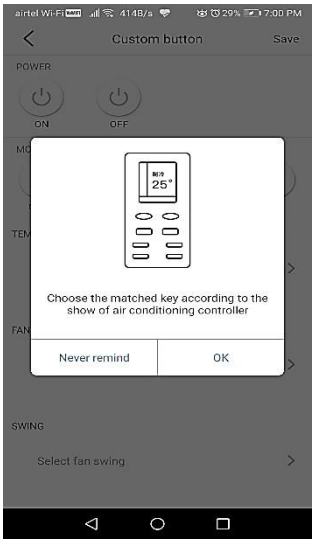


* If the current status of the air conditioner remote control is 25 ℃, but users hope the smart IR blaster to receive the signal of 22 ℃, please block the infrared transmitter of the remote control and adjust the status of the air conditioner remote control to 23 ℃, and then stop blocking it. Turn the air conditioner remote control toward the infrared socket, and finally send 22 ℃ air conditioning status signal from the air conditioner remote control to the smart IR blaster.

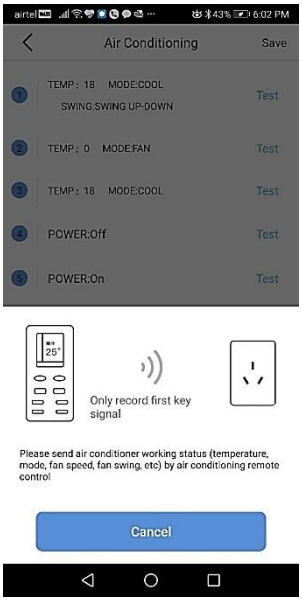
3. When Smart Blaster receiving or detecting the signal from physical remote device, then press “Configure Signal”, the app interface jumps to the remote interface page.



4. Please select the remote air conditioner button/status (such as temperature, mode, wind, wind direction, etc.) on the following interface page, that is, the button/status of the air conditioner learned by the smart socket, click “Save”, after that the app interface jumps to the test interface If you press "Test" in the app, the air conditioner doesn't respond, and then return to the previous screen to continue learning; if the air conditioner's response is the same as the remote control status, then press "Configure Signal."

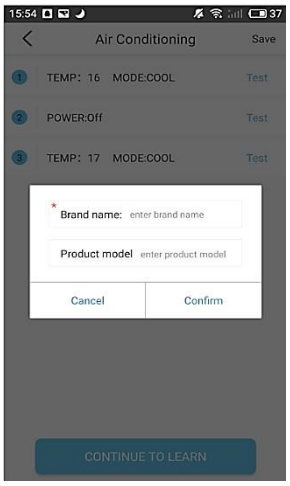


5. Continue to learn according to all buttons/steps of remote until all required controllable states (temperature, mode, wind, wind direction) of the air conditioner are learned. If you do not need to continue learning, click "Cancel" in the following page.

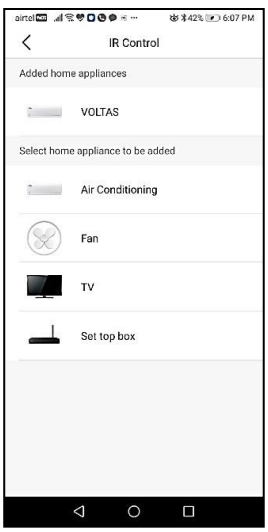


6. The air conditioner states you have learned will appear in list. Click “Test” you can test again, click “Continue to learn” to learn again. If you have learned all the states you need to control. Click “Save”.

7. Enter brand name and model, then confirm (brand name is required).

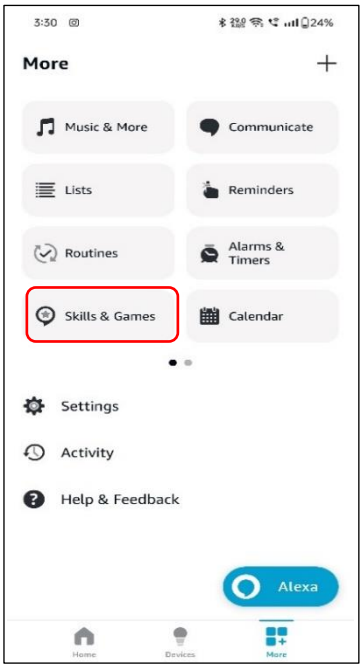


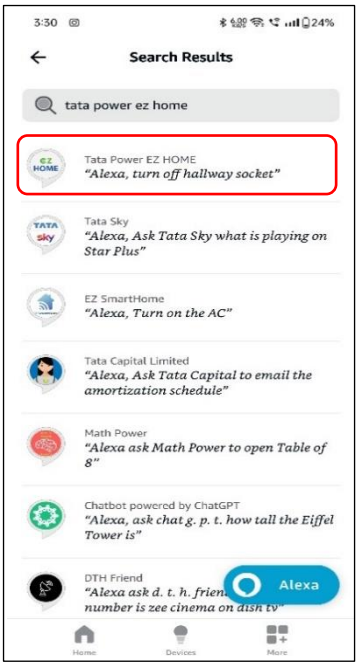
8. Click appliance in Infrared remote appliance list, then you can control your air conditioner by APP.



4.1 Set "Alexa" App

1. Once user installs the Alexa APP, the APP will ask you to register, select language and enter your email, input verification code and create a password. If you could not see the verification code well, you can click the code button to refresh and input again.





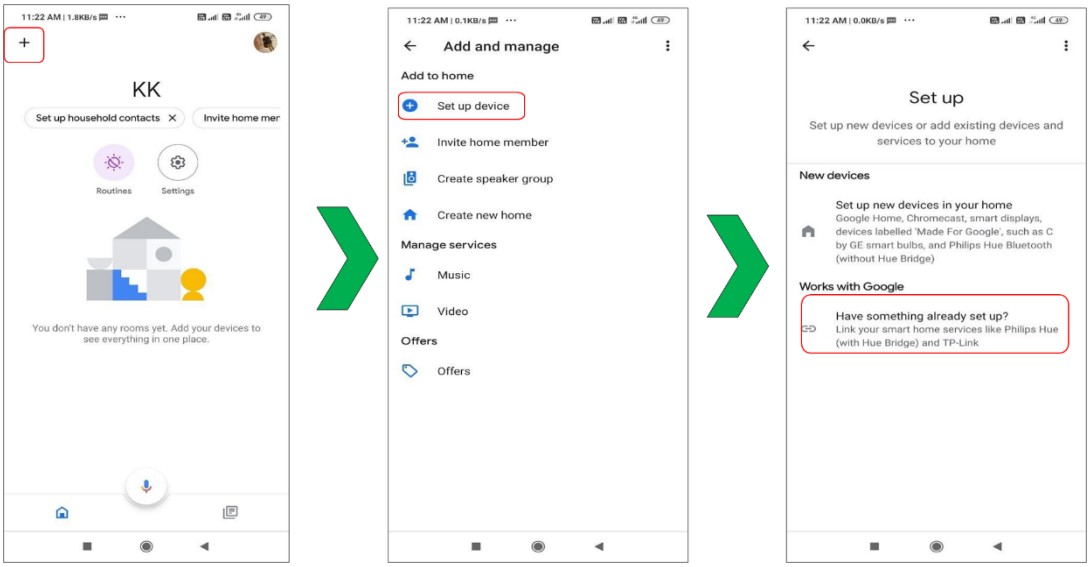
2. Once APP configuration is successful, long press corresponding device in APP device list to set a suitable name such as “COCO” for your device, without unique names, you will be difficult to control the device via your voice with Alexa.
3. Open “Alexa” APP, click “More ”
4. Click” Skills and Games”
5. Input “Tata Power EZ HOME” to search skills, click search
6. Click “EZ HOME ” and enter
7. Input your “EZ HOME” APP account and password which you have registered. (Attention: this is not the account and password of Alexa APP).

Click Authorization

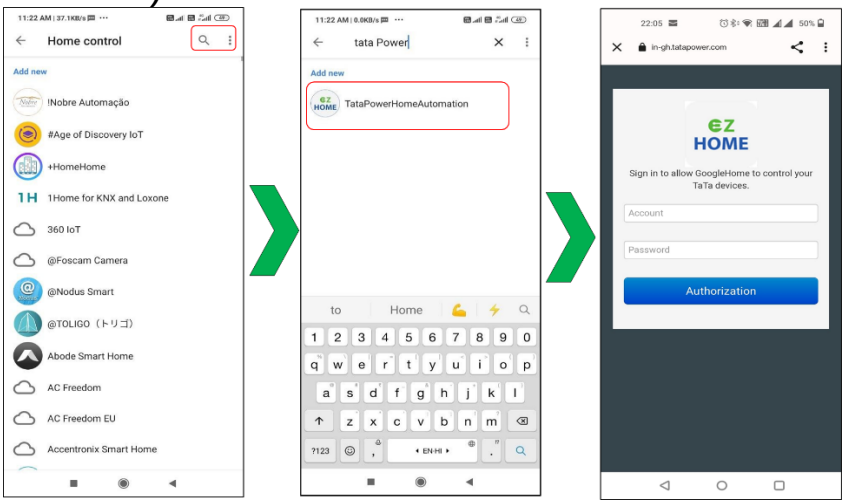
9. Close this window to discover smart devices you can control with Alexa
10. Click DISCOVER DEVICES, then looking for devices
11. If successful, you will find the device list, then you can voice control the smart touch switch with Alexa
12. If failed, please check FAQs to find out reasons, then discover devices again. Click “Add Device”, Alexa will help you discover devices again

4.2 Set "Google Home" App

1. Once user installs the Google Home APP, the APP will ask you to register & enter your email.
2. In the Home page, Select the “+” symbol
3. Select the “Set up device”
4. In the Works with Google section, select “Have something already set up”.



5. On the Search Tab, search for “TataPowerHomeAutomation”
6. Input your “Tata Power EZ HOME” APP account and password which you have registered. (Attention: this is not the account and password of Google Home APP). Click Authorization



7. Once the authorization is completed, Google Home will discover smart devices.

Remark: If you rename the smart switch name in APP, you need to search device again in Google Home to control the switch via voice commands.

4.3 Disclaimer

This specification is a detailed description of series products produced by the company, please read carefully and fully understand the detailed specification parameters of the product.

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