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› Tuya Smart USB IR + RF Transmitter User Manual

YSRSAI YSR-IR-RF

Tuya Smart USB IR + RF Transmitter User Manual

Model: YSR-IR-RF | Brand: YSRSAI

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Tuya Smart USB IR + RF Transmitter. This device acts as a universal remote control, enabling smart control of various infrared (IR) and radio frequency (RF) home appliances through a single application and voice commands. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

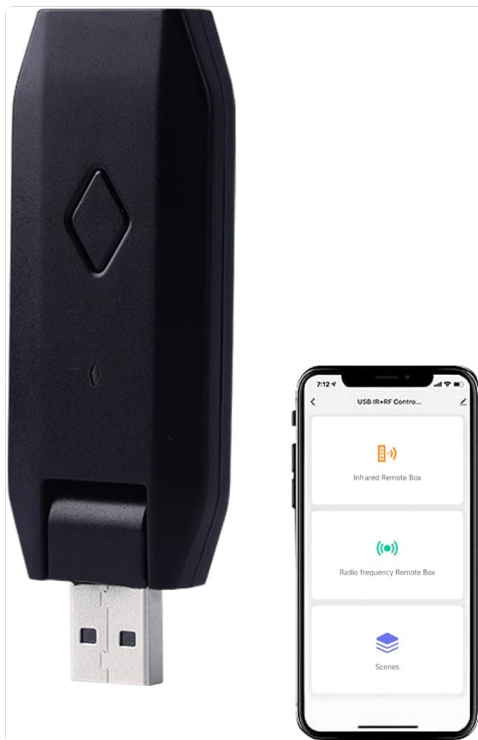


Image: The YSRSAI Tuya Smart USB IR + RF Transmitter, a compact black USB dongle designed for smart home control.

SETUP AND INSTALLATION

1. Device Placement

Place the USB IR + RF Transmitter in a central location within your home, ensuring it has a clear line of sight to infrared (IR) controlled devices (e.g., TV, AC) and is within range of radio frequency (RF) controlled devices (e.g., RF curtains, RF lights). The device features a 180-degree bendable USB connector for flexible placement in various USB ports or power adapters.

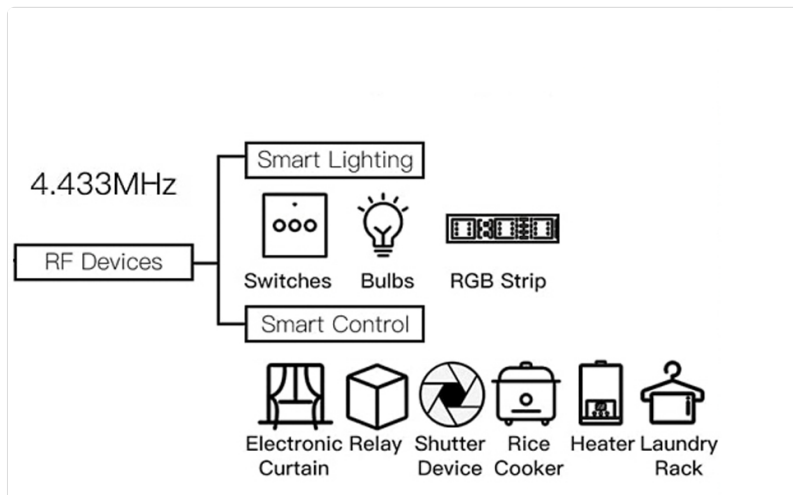


Image: The USB IR + RF Transmitter demonstrating its 180-degree bendable USB connector, allowing for versatile positioning.

2. Power Connection

Connect the USB transmitter to a standard USB power source (DC 5V/1A). This can be a USB wall adapter, a USB port on a smart TV, or a USB hub. The device's LED indicator will illuminate blue upon successful power connection.



Image: Examples of connecting the USB IR + RF Transmitter to different USB power sources, including a wall adapter and a USB hub.

3. App Installation and Pairing

The device operates with the Tuya Smart or Smart Life application. Download the "Tuya Smart" or "Smart Life" app from your mobile device's app store (available on iOS and Android).

1. Open the Tuya Smart or Smart Life app and register/log in.
2. Tap the "+" icon in the top right corner to add a device.
3. Select "Others" or "Universal Remote Control" from the device list.
4. Follow the on-screen instructions to connect the transmitter to your Wi-Fi network (2.4GHz IEEE 802.11 b/g/n). Ensure your mobile device is connected to the same 2.4GHz Wi-Fi network during pairing.
5. Once connected, the device will appear in your app.

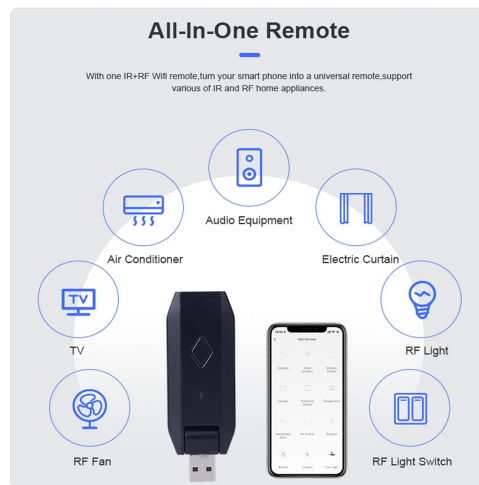


Image: A smartphone screen displaying the Tuya Smart app interface, showing options for Infrared Remote Box, Radio Frequency Remote Box, and Scenes.

OPERATING INSTRUCTIONS

1. Adding IR Devices

To control IR devices (e.g., TV, air conditioner, DVD player), use the "Infrared Remote Box" option in the app.

- **Pre-set Library:** The app contains a vast library of pre-set IR codes for various brands and device types. Search for your device's brand and model to quickly add it.
- **IR Learning Function:** If your device is not in the library, the transmitter can learn commands from your original IR remote control.
 - a. In the app, select the "DIY" or "Learn" option for the IR device.
 - b. Point your original remote control at the USB transmitter (within 1-3 cm) and press the desired button (e.g., Power On).
 - c. The app will indicate successful learning. Repeat for all necessary buttons.



Image: A diagram illustrating various IR devices such as TV, projector, screen, speaker, air conditioner, fan, and water heater, all controllable via the smart remote.

2. Adding RF Devices

For RF devices (e.g., 433MHz RF curtains, RF lights, RF switches), use the "Radio Frequency Remote Box" option.

- The process for adding RF devices is similar to IR learning. Follow the app's instructions to put the transmitter into RF learning mode and then activate the desired function on your original RF remote.

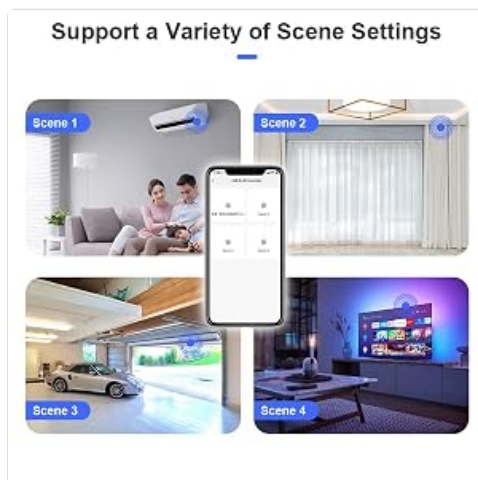


Image: A diagram illustrating various RF devices such as smart lighting, switches, bulbs, RGB strips, electronic relay curtains, shutters, rice cookers, heaters, and laundry racks, all controllable via the smart remote.

3. Voice Control Integration (Alexa/Google Home)

The Tuya Smart USB IR + RF Transmitter supports voice control via Amazon Alexa and Google Home. Ensure your smart speaker is set up and linked to your Tuya Smart/Smart Life account.

1. In the Tuya Smart/Smart Life app, navigate to the "Me" or "Profile" section.
2. Select "More Services" or "Third-Party Voice Services."
3. Choose "Alexa" or "Google Assistant" and follow the instructions to link your accounts.
4. Once linked, you can use voice commands such as:
 - "Alexa, turn on the TV."
 - "Hey Google, turn on the living room light."
 - "Alexa, set the AC to 24 degrees."

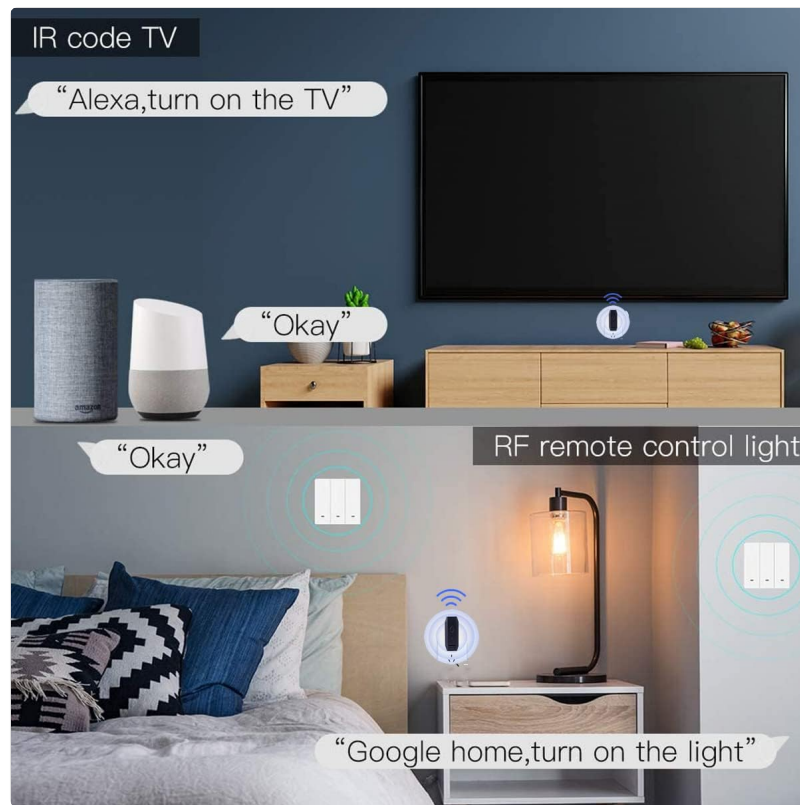


Image: An illustration showing a user interacting with Amazon Alexa and Google Home devices to control a TV and a light using voice commands, enabled by the smart remote.

4. Scene Settings and Automation

Create custom scenes and automations within the Tuya Smart/Smart Life app to control multiple devices with a single command or based on specific conditions.

- **Creating Scenes:** Combine actions for different devices into a single "scene" (e.g., "Movie Night" scene could turn on the TV, dim the lights, and close the curtains).
- **Automation:** Set up rules for devices to operate automatically based on time, temperature, or other smart home sensor triggers.

Support a Variety of Scene Settings

You can set a variety of scenarios on smart phone, execute it with one key or set up automation, and turn it on or off when it can reach what state



Image: Four distinct scenes (Scene 1: AC control, Scene 2: Curtain control, Scene 3: Garage door control, Scene 4: TV and lighting control) demonstrating the versatility of scene settings within the smart home app.

MAINTENANCE

The Tuya Smart USB IR + RF Transmitter requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Environment:** Keep the device away from direct sunlight, high temperatures, and excessive humidity.
- **Power:** Ensure a stable power supply (DC 5V/1A) to prevent operational issues.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on (no blue LED).	No power, incorrect power adapter, faulty USB port.	• Ensure the USB power source is active. • Try a different USB power adapter (DC 5V/1A) or USB port. • Check the USB cable (if applicable, though this is a dongle).
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password, 5GHz Wi-Fi network, device too far from router, network congestion.	• Verify Wi-Fi password. • Ensure you are connecting to a 2.4GHz Wi-Fi network. • Move the device closer to the Wi-Fi router during setup. • Restart your Wi-Fi router.

Problem	Possible Cause	Solution
IR learning function does not work.	Original remote too far, weak battery in original remote, interference.	• Ensure the original remote is pointed directly at the transmitter's IR receiver (usually the front/top) within 1-3 cm. • Replace batteries in the original remote. • Minimize ambient light or other IR sources during learning. • Try learning the command multiple times.
Device does not control appliances.	Incorrect IR/RF code, device out of range, obstruction, appliance not compatible.	• Verify the correct remote code was selected from the app's library or re-learn the commands. • Ensure the transmitter has a clear line of sight to IR devices. • Confirm the device is within effective range for both IR (up to 10 meters) and RF (433.92 MHz) signals. • Check if the appliance is indeed IR or 433MHz RF controlled.
Voice control not working.	Incorrect voice command, account not linked, internet connectivity issues.	• Ensure your Tuya Smart/Smart Life account is correctly linked to Alexa/Google Home. • Use precise voice commands as configured in the app. • Check internet connection for both the smart speaker and the transmitter.

SPECIFICATIONS

Feature	Detail
Product Name	USB Smart Controller
Model Number	YSR-IR-RF
Power Supply	USB DC5V/1A
LED Indicator	Blue
Operating Temperature	-10°C to 55°C (14°F to 131°F)
Infrared Frequency	38 KHz
Infrared Range	Up to 10 meters (33 feet)
Radio Frequency	433.92 MHz
Wi-Fi Frequency	2.4GHz IEEE 802.11 b/g/n
Housing Material	ABS

Feature	Detail
Dimensions (L×W×H)	104 × 66 × 15.5 mm (4.09 × 2.60 × 0.61 inches)
Item Weight	1.48 ounces (approx. 42 grams)
Compatible Devices	Air Conditioner, DVD/Blu-ray Player, Fan, Set Top Box, Television, VCR (IR); Various 433MHz RF devices (e.g., curtains, lights)



Image: A technical drawing of the USB IR + RF Transmitter, detailing its dimensions in millimeters.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the manufacturer's official website or contact their customer service directly. Contact details are typically provided on the product packaging or the manufacturer's official online channels.

Manufacturer: YSRSAI

For further assistance, you may visit the [YSRSAI Store on Amazon](#).

