

Tuya Light Bulb Research and Use

Light bulb:

https://www.amazon.com.br/Dimeriz%C3%A1vel-Colorida-Compat%C3%ADvel-Controle-Inteligente/dp/B0FFH7TBJY/ref=asc_df_B0FFH7TBJY?mcid=d6070563ea043f278fd6c23a6ee67f2e&tag=googleshopp00-20&linkCode=df0&hvadid=709968341179&hvpos=&hvnetw=g&hvrand=15249872038765600927&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcndl=&hvlocint=&hvlocphy=9100806&hvtargid=pla-2440436863347&language=pt_BR&gad_source=4&th=1

Platforms:

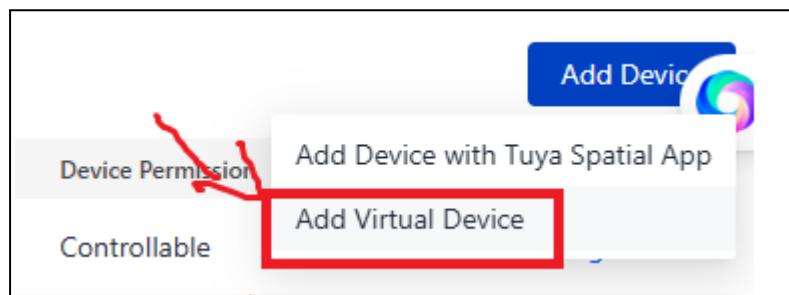
- Tuya Developer Platform ([link](#))
- Tuya Mobile App ([link](#))

Simulating bulb:

Since there is no physical version of the light bulb, we need to simulate a virtual one for debugging and development.

The screenshot shows the Tuya Developer Platform's device management interface. At the top, there are tabs for Overview, Authorization, Service API, Devices (which is selected), Message Service, and Project SaaS. Below the tabs, a message says "You can add devices to a project by using the Smart Device Management app, and can also link device resources of other apps." There are buttons for "View Device Linking Methods", "All Devices", "Link My App", "Link My WeChat Mini Program", "Link App Account", and "Link SaaS". A search bar and a "Reset" button are also present. The main area displays a table of devices. One row is highlighted with a red box and a red arrow pointing to it. The row contains the following information:

Device Name	Device ID	Product	Source	Online Status	Device Type	Activation Time	Device Permission	Operation
Zigbee Smart Bulb-vdevo	vdevo176253724992844	ZC-TD zigbee智能灯泡A60 9W	frannelefeury@gmail.com	Online	Virtual Device	2025-11-07 15:02:22	Controllable	Debug Device



Add Virtual Devices

Products on TuyaGo My Products

Electrical ▾ Lighting Source
Light Bulbs

Energy LED Filament Bulbs

IP Camera&Lock LED Candle Bulbs

Gateway Control GU10 Bulbs

Sensors PAR Light

Lighting

Home Appliances Tube Lights

Exercise & Health ▾ Ambient Lighting

Pets ▾ Indoor Lighting

Outdoor & Travel ▾ Outdoor Lighting

▪ Professional Lighting

▪ Lighting Accessories

ZigBee Smart LED Light Bulb E27 Dimmable RGB White Color Lamp 806Lm... Item Details Add Virtual Devices

MOES Bluetooth BEACON solution intelligent RGBCCT ... Item Details Add Virtual Devices

X

ZigBee Smart LED Light Bulb E27 Dimmable RGB White Color Lamp 806Lm X
MOES/Tuya Smart APP Remote Control Alexa Google

Add to Space Add to My App **Add to Tuya App Account** Add to Asset

1. Scan with SmartLife app to add virtual devices to your account.

2. Make sure your personal account is linked to the current project.[Learn More](#)

Product Specification: 

Open the SmartLife App, tap Me and then the Scan icon in the top-right corner of the page.

Scan de QR Code with your Tuya app and your virtual light bulb is ready to be tested! Try changing a few settings on your app to see the result.

Sending instructions from Tuya Developer Platform:

The screenshot shows the Tuya Developer Platform's Device Debugging section. On the left, there's an 'Instruction Set' panel with fields for 'switch_led' (checkbox), 'work_mode' (dropdown menu with options like 'Select', 'white', 'colour', 'scene', 'music'), 'bright_value_v2' (slider from 10 to 1000 with value 10), 'temp_value_v2' (slider from 0 to 1000 with value 0), 'colour_data_v2' (text input field), and 'scene_data_v2' (text input field). At the bottom are 'Reset' and 'Send Instruction' buttons. On the right, under 'Standard Instruction Set', is a table with columns 'Code', 'Type', and 'Values'. The table contains the following data:

Code	Type	Values
switch_led	Boolean	"{true,false}"
work_mode	Enum	{ "range": ["white", "colour", "scene", "music"] }
bright_value_v2	Integer	{ "min": 10, "max": 1000, "scale": 0, "step": 1 }
temp_value_v2	Integer	{ "min": 0, "max": 1000, "scale": 0, "step": 1 }
		{ "h": { "r": 255, "b": 0, "g": 0 } }

Sending instruction from an external application

There is a github repository with a python class that provides an interface for sending http requests to Tuya API.

repository: <https://github.com/Octoober/tuya-bulb-control>