

Tuya Light Bulb Research and Use

Light bulb:

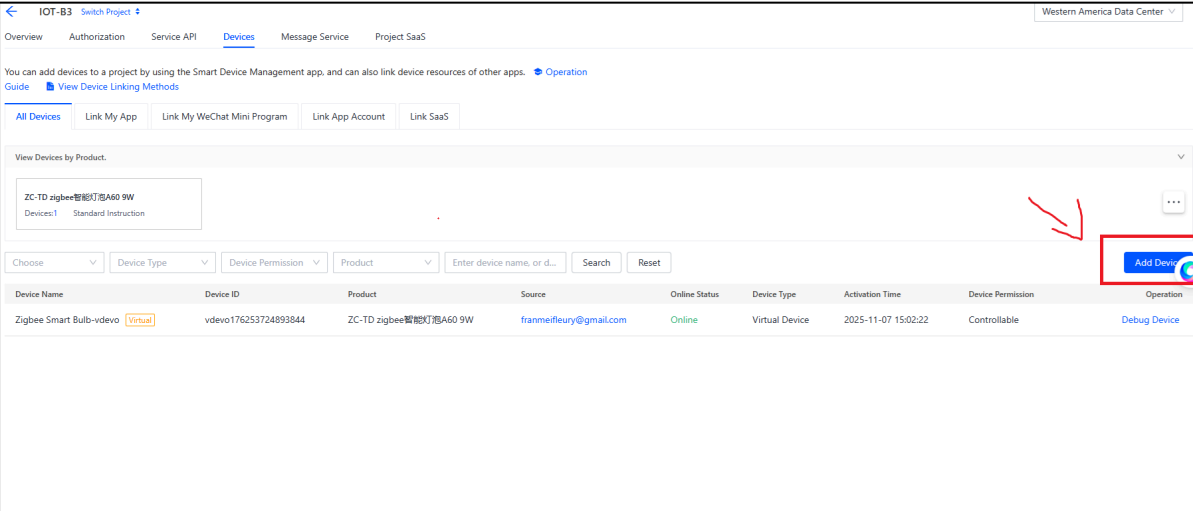
https://www.amazon.com.br/Dimeriz%C3%A1vel-Colorida-Compat%C3%ADvel-Controle-Inteligente/dp/B0FFH7TBJY/ref=asc_df_B0FFH7TBJY?mcid=d6070563ea043f278fd6c23a6ee67f2e&tag=googleshopp00-20&linkCode=df0&hvadid=709968341179&hvpos=&hvnetw=&hvrnd=15249872038765600927&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmld=&hvlocint=&hvlocphy=9100806&hvtargid=pla-2440436863347&language=p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

Platforms:

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

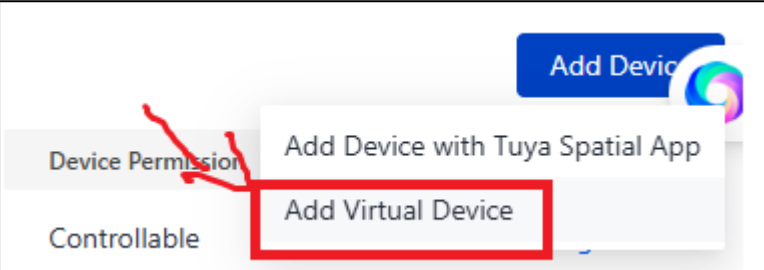
Simulating bulb:

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

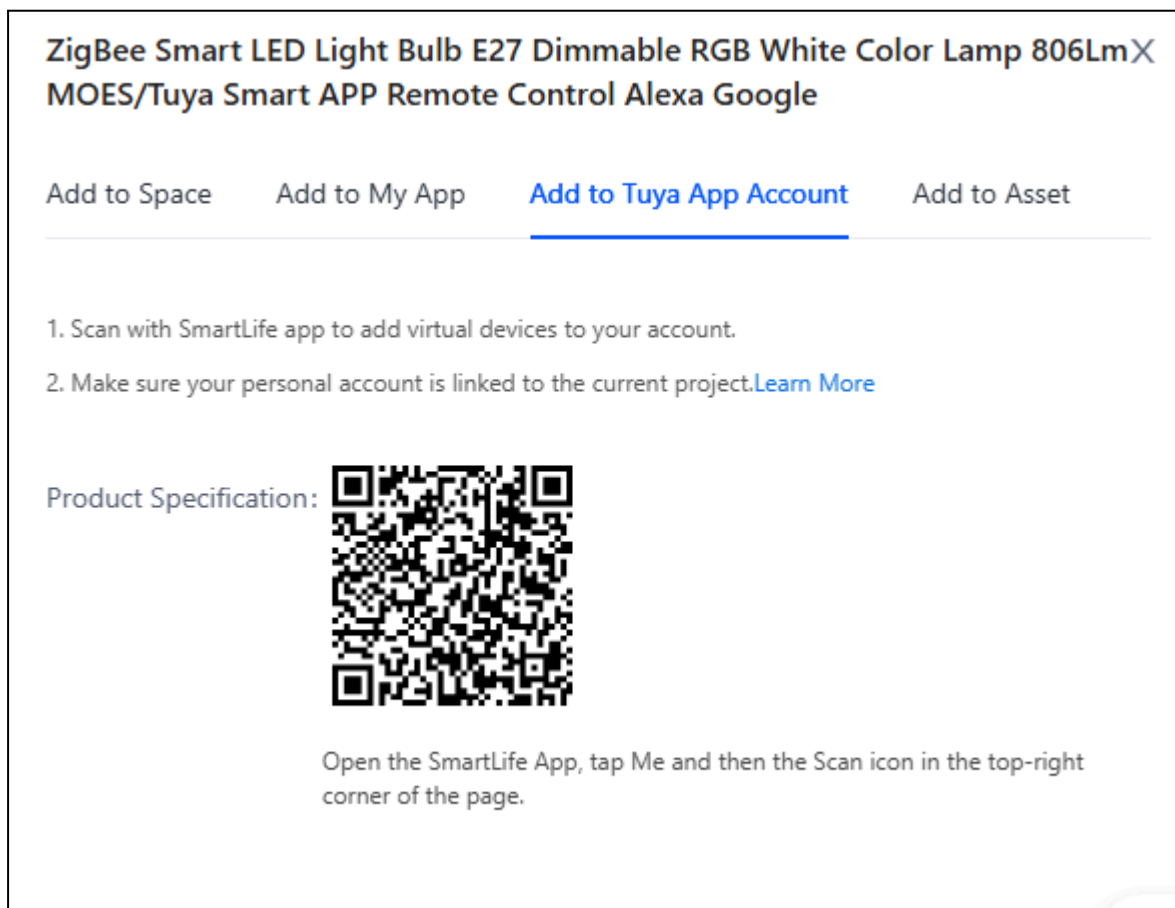
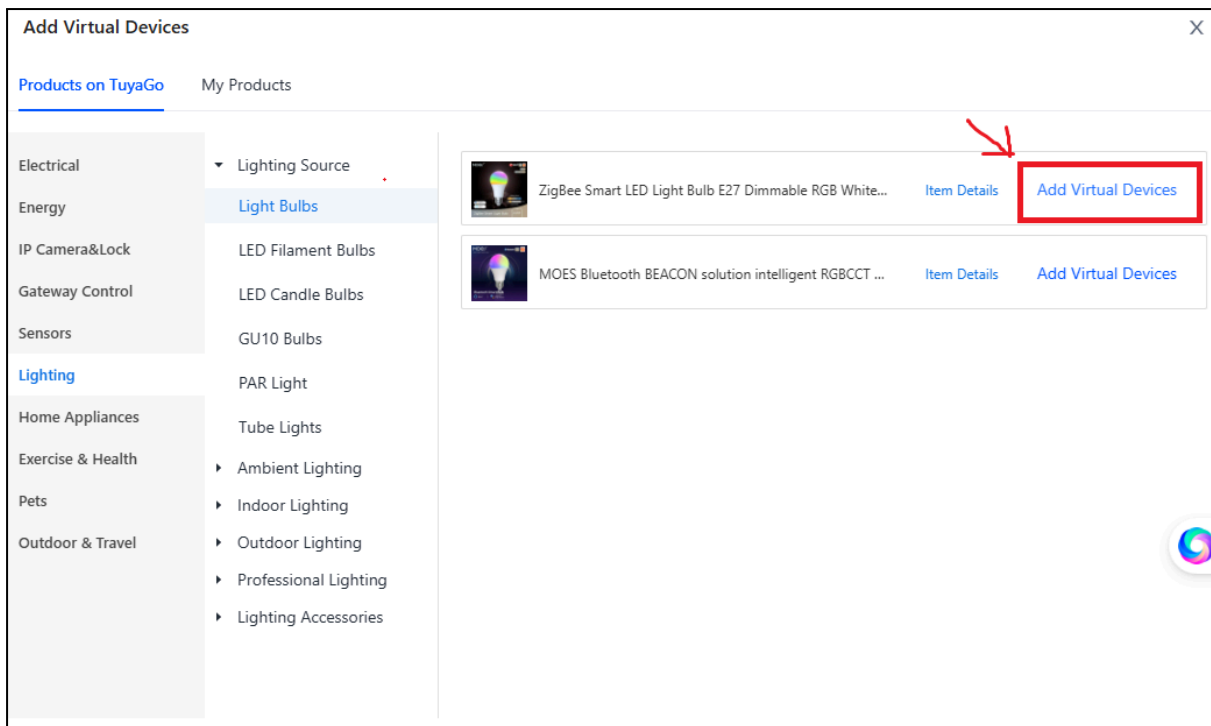


The screenshot shows the 'Devices' page in the Tuya Developer Platform. The page has a navigation bar with tabs: Overview, Authorization, Service API, Devices (selected), Message Service, and Project SaaS. Below the navigation bar, there is a section for adding devices, followed by a list of devices. The 'Zigbee Smart Bulb-vdevo' is listed with a 'Virtual' tag. A red arrow points to the 'Add Device' button in the top right corner of the device list.

Device Name	Device ID	Product	Source	Online Status	Device Type	Activation Time	Device Permission	Operation
Zigbee Smart Bulb-vdevo	vdevo176253724893844	ZC-TD zigbee智能灯泡A60 9W	franmeifury@gmail.com	Online	Virtual Device	2025-11-07 15:02:22	Controllable	Debug Device



The screenshot shows the 'Add Device' modal in the Tuya Developer Platform. The modal has a title 'Add Device' and two options: 'Add Device with Tuya Spatial App' and 'Add Virtual Device'. The 'Add Virtual Device' option is highlighted with a red box.



Scan the 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:

Basic Information

Device Debugging

Device Logs

Data Reporting Simulation

The standard instruction set lets you control devices from different manufacturers with a single set of instructions. However, to achieve standardization, mapping products support this function. You can view the standard adaptation of this product in [[Product Details](#)] and change to the DP instruction mode as needed to get

Control Device with Standard

Update Device Status

JSON Editing

Standard Instruction Set

Standard Status Set

Instruction Set

switch_led

work_mode

Select

bright_value_v2 (10 - 1000)

10

temp_value_v2 (0 - 1000)

0

colour_data_v2

scene_data_v2

Reset

Send Instruction

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": "a"
 }
}

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>