



User Guide

Smart Wi-Fi Light Bulb, Daylight and Dimmable

Tapo L520E

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About This Guide

This guide provides a brief introduction to the Tapo Smart Wi-Fi Light Bulb and the Tapo app, as well as regulatory information.

Features available in Tapo may vary by model and software version. Tapo availability may also vary by region. All images, steps, and descriptions in this guide are only examples and may not reflect your actual Tapo experience.

Conventions

In this guide, the following convention is used:

Convention	Description
Blue	Key information appears in blue, including management page text such as menus, items, buttons and so on.
<u>Underline</u>	Hyperlinks are in blue and underlined. You can click to redirect to a website.
■Note:	Ignoring this type of note might result in a malfunction or damage to the device.

More Info

- Specifications can be found on the product page at <https://www.tapo.com>.
- Our Technical Support and troubleshooting information can be found at <https://www.tapo.com/support/>.
- A Technical Community is provided for you to discuss our products at <https://community.tp-link.com>.
- The setup video can be found at <https://www.tp-link.com/support/setup-video/#smart-bulbs>.

Introduction

The Tapo smart Wi-Fi light bulb is part of the Tapo smart home family of products, including plugs, switches, cameras and more. Smart Bulb lets you easily control your lights via the Tapo app, no matter where you find yourself. You can adjust brightness, set schedules and timers, and set an alarm that wakes you naturally by simulating the sunrise. Group lights together to control your smart bulbs more easily.

- **No Hub Required:** Connect to your existing Wi-Fi router.
- **Adjust with Ease:** Manage the lighting at your fingertips to create the perfect atmosphere in your home at anytime.
- **Dimmable Smart Lighting:** Meet your daily lighting needs with a 4000 K light and may improve your learning and academic performance.
- **Remote Control:** Instantly turn the light on/off wherever you are through the Tapo app.
- **Schedule:** Use Schedules to set your light to automatically turn on and off.
- **Timer:** Set a countdown timer to automatically turn the light on or off after a certain amount of time.
- **Preset for Convenience:** Save and preset your favorite lightings for multiple scenarios.
- **Away Mode:** Automatically simulate someone being at home to frighten away unwanted visitors.
- **Sunrise and Sunset Mode:** Automatically activate your ight according to your time zone.
- **Restore Last Light State:** The bulb automatically returns to its previous power-off state.
- **Device Sharing:** Invite your family members to manage the bulb together.
- **Voice Control:** Use Amazon Alexa or Google Assistant to control your bulb with voice commands.

Set Up Your Smart Bulb

Follow the steps below to get started with your new smart bulb.

Step 1. Download Tapo App

Get the [Tapo](#) app from the App Store or Google Play, or by scanning the QR code below.




OR





Step 2. Log In

Open the app, and log in with your TP-Link ID. If you don't have an account, create one first.

Welcome to Tapo

 TP-Link ID (Email)

 Password




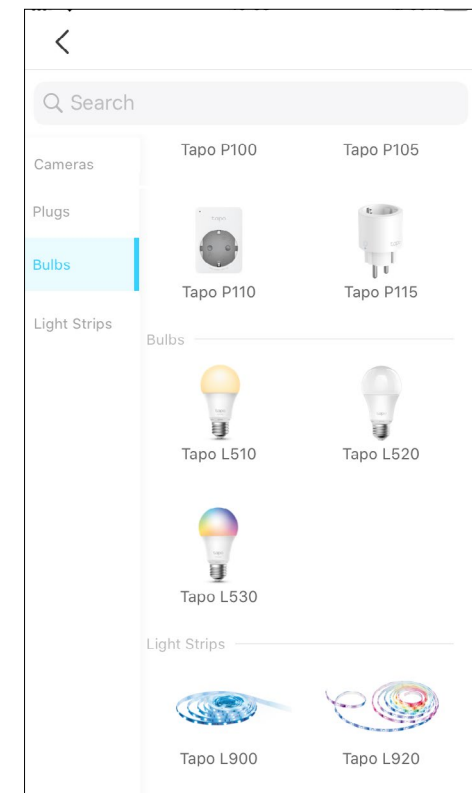
☒ Remember Me

LOG IN

[Sign Up](#) [Forgot Password?](#)

Step 3. Add Your Smart Bulb

Tap the  button in the app and select your model. Follow app instructions to set up your smart bulb, and add it to your home network.

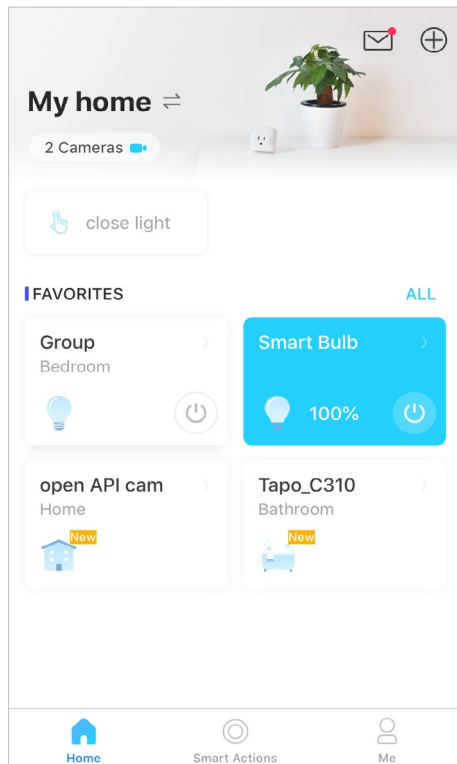


Basic Device Control

After successfully setting up your smart bulb, you will see the home page of the Tapo app. Here you can view the status of all devices that you've added and manage them. You can tap on the device to control and manage.

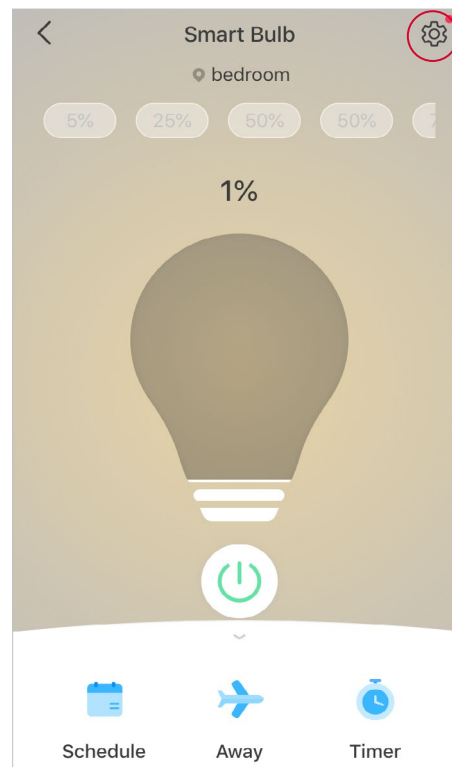
Home Page

You can turn on or off the bulb any time anywhere and tap the bulb card to enter the status page.



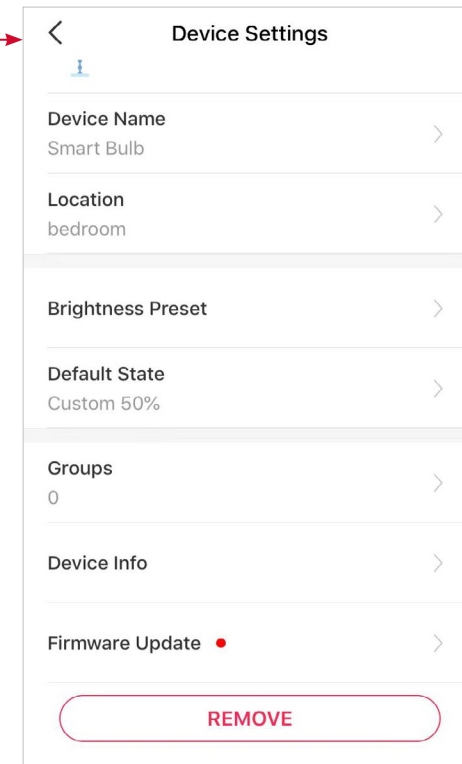
Device Status Page

You can adjust the color temperature, set a schedule, enable away mode, or set a timer to automatically control your device, and view its runtime & energy usage.




Device Settings Page

You can edit the basic information, set Brightness Preset shown on the status page, set Last On State, add a group, update firmware and more.



Set Schedule

Tap  to add a schedule for your bulb to automatically turn on/off and adjust the lighting settings to simplify your daily routine.

<

Add Schedule

Save

AT

☐

Sunrise

☐

Sunset

☒

Custom Time

150

251 AM

3:52 PM

453

554

TURN DEVICE


☒

On

☐

Off

Set Away Mode

Tap  to preset the Away Mode, set the start and end time, then your bulb will be randomly turned on/off during this period.

<

Away Mode

Set a period of time during which the plugged in device will be randomly turned on and off to make it seem like someone is home.

12:00 AM

→

11:59 PM

REPEAT EVERY

S

☒


M

☒

T☒☒☒☒

START

Set Timer

Tap  to set the timer and lighting settings, then your bulb will automatically turn on with the specific settings after the timer ends.

<

Timer

Timer is counting down

00:04:54

WHEN TIMER ENDS

☒

ON

☒

50%

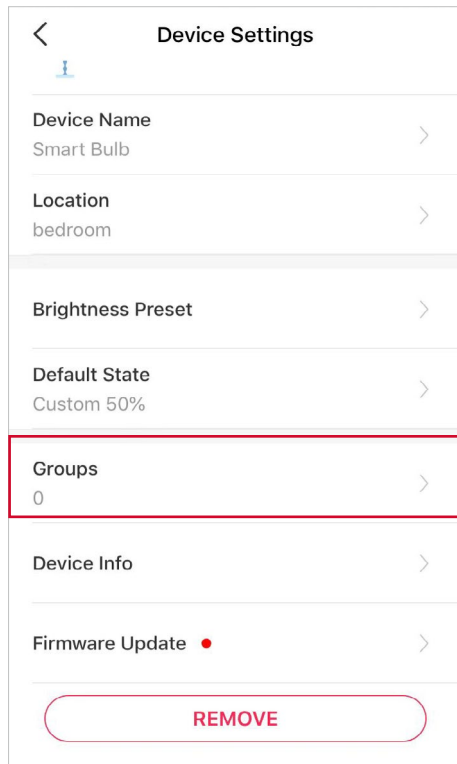
STOP

Group

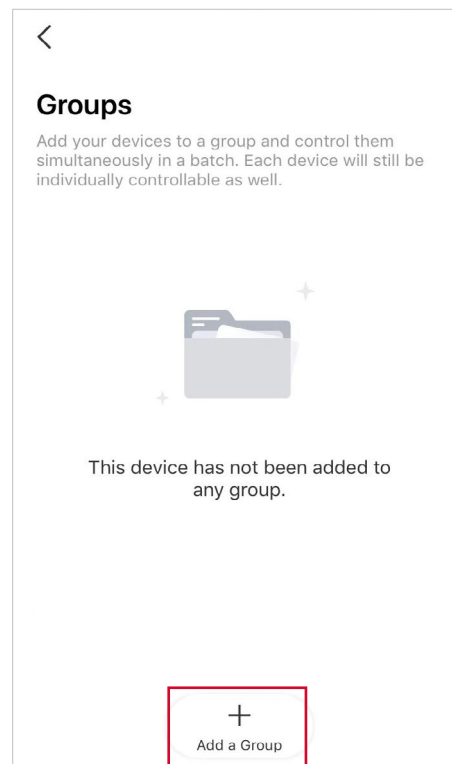
Add your bulbs in a group and you can control them simultaneously in a batch. Each bulb will still be individually accessible as well. It is accessible in the home screen just like any other devices. To use this feature, make sure you have updated your Tapo app to the latest version.

Create Group

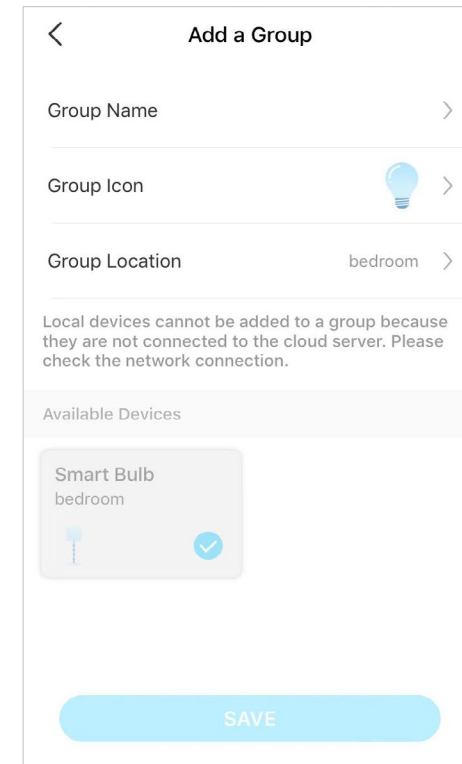
Go to bulb's [Device Settings](#) page and select [Groups](#).



Tap + at the bottom to add a group.



Name your group, set a location, select devices you want to add to this group, and tap [SAVE](#).



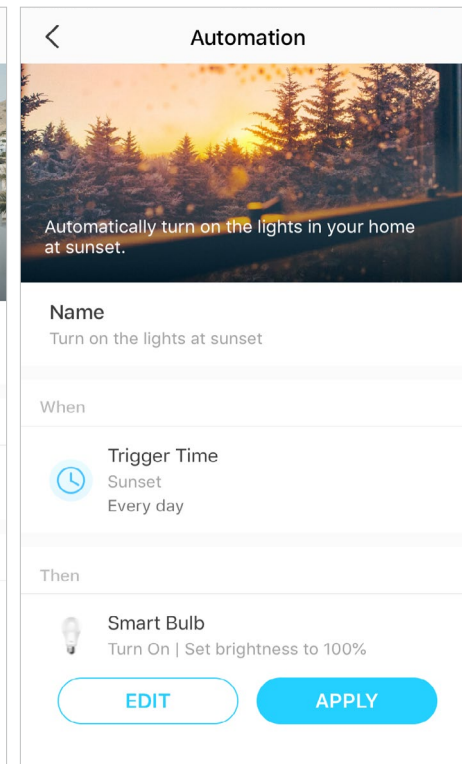
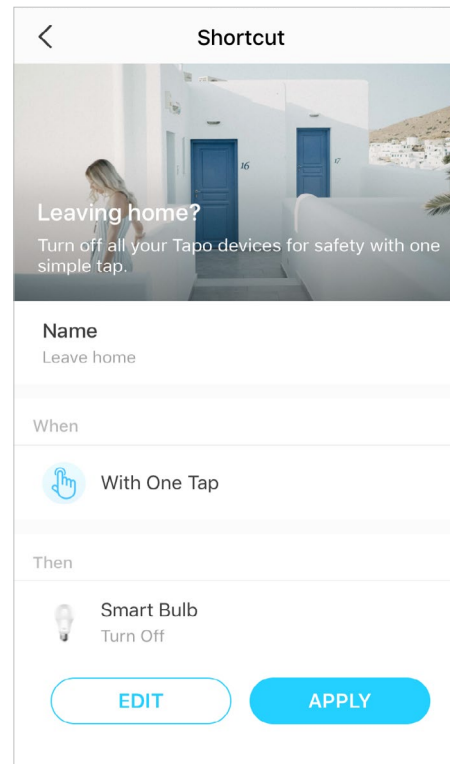
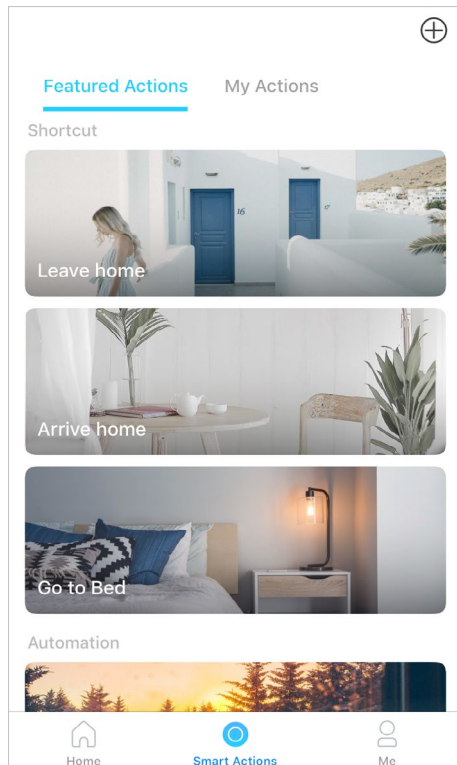
Smart Actions

Smart Actions automate repetitive tasks, allowing you to blaze through tedium with utmost ease. Set everything up once and never have to worry about it again. With Smart Actions, giving your home that level of intelligence is a snap. Shortcut lets you perform an action with a simple tap. Automation allows you to automate tasks to be performed at a set time. e.g. The light will light on at sunset.

Option 1: Edit based on the featured actions

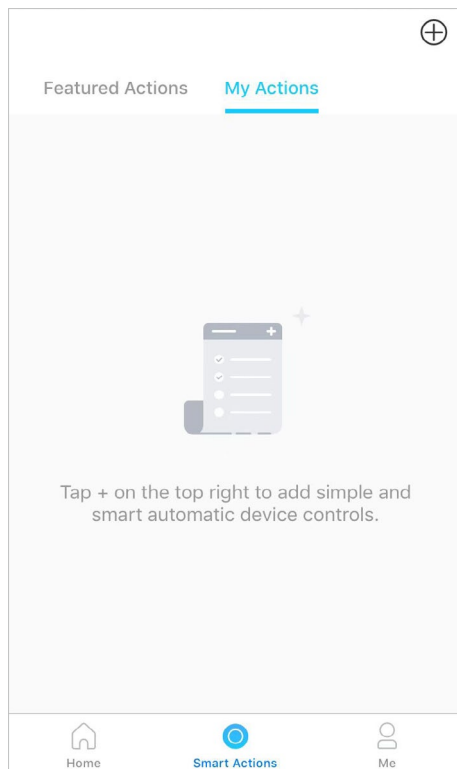
1. Go to the [Smart Actions](#) page and you will see the [Featured Actions](#) (Shortcut or Automation).

2. Tap on a featured action. Tap [EDIT](#) to change the settings as needed and tap [APPLY](#) to save changes.

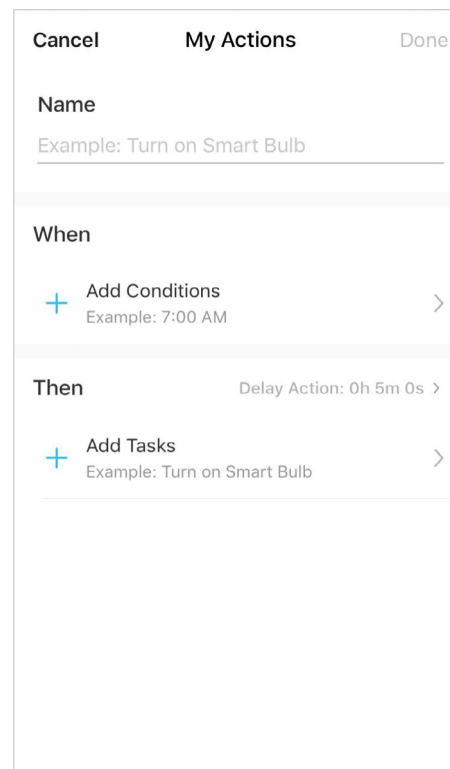


Option 2: Create your own actions

1. Go to [My Actions](#) page. Tap + on the top right to add a simple and smart action.



2. Name the new action. Tap + to add conditions ([When](#)) like the trigger time, and tap + to add tasks ([Then](#)) like turning on the smart bulb.



3. When the action created, you can also delay the action for a specific time. Tap **Done** to save all the settings.

The screenshot shows the 'My Actions' app interface. At the top, there are three buttons: 'Cancel', 'My Actions', and 'Done'. Below this is a 'Name' field with the text 'Turn on my bulb'. Underneath is a 'When' section with a clock icon, the text 'Trigger Time', and the time '7:00 PM' with 'Every weekday' below it. There is a close button (X) to the right. Below the 'When' section is a '+ Add Conditions' button. At the bottom, there is a 'Delay Action' section with a 'Cancel' button, the text 'Delay Action', and a 'Done' button. Below this is a time picker showing '00 hrs 05 min 00 sec'.

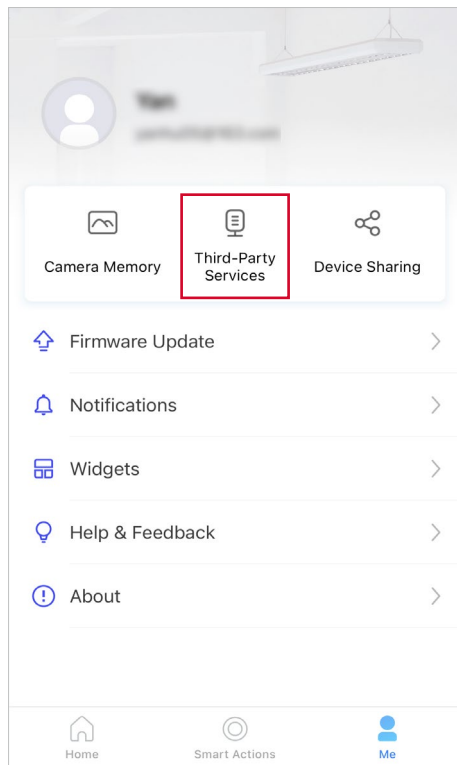
If there are more than 2 conditions added, you can decide when to perform the action. Tap **When Any Condition is Met**, and select "Any Condition is Met" or "All Conditions Are Met".

The screenshot shows the 'My Actions' app interface. At the top, there are three buttons: 'Cancel', 'My Actions', and 'Done'. Below this is a 'Name' field with the text 'Turn on my bulb'. Underneath is a 'When' section with the text 'When Any Condition Is Met' and a dropdown arrow. Below this is a list of conditions: 'Any Condition Is Met' (highlighted with a red box), 'All Conditions Are Met', 'Trigger Time' (with a clock icon, 'Sunset', and 'One time only'), and 'Trigger Time' (with a clock icon, '7:00 PM', and 'One time only'). There is a close button (X) to the right of each condition. Below the list is a '+ Add Conditions' button. At the bottom, there is a 'Then' section with the text 'Delay Action: 0h 5m 0s' and a right arrow.

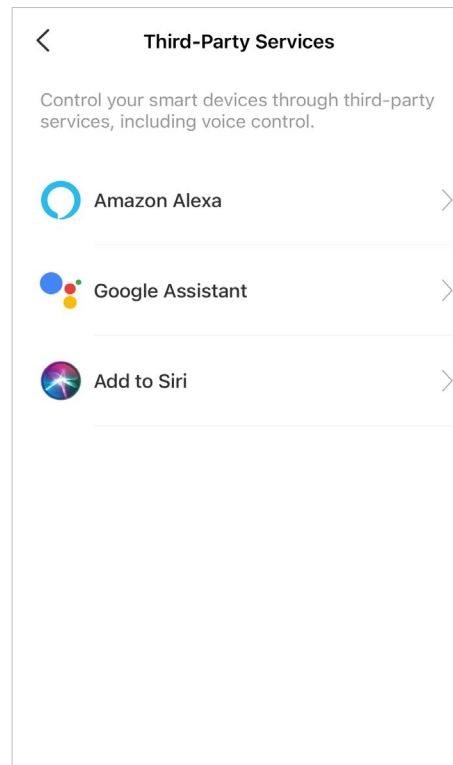
Voice & Third-Party Support

Control your smart devices through third-party services, including voice control, to free up your hands with simple voice commands and more.

1. Go to [Me](#) page and tap [Third-Party Services](#) to connect to Amazon Alexa, Google Assistant, and other services.



2. Select a service and follow the instructions to set up the connection.

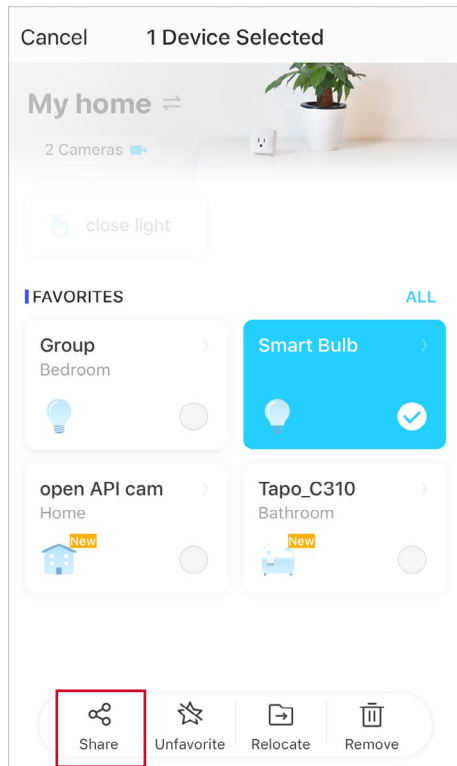


Share Your Smart Bulb

You can invite your family members to manage your Tapo devices together by entering the TP-Link ID (email) you want to share the devices with.

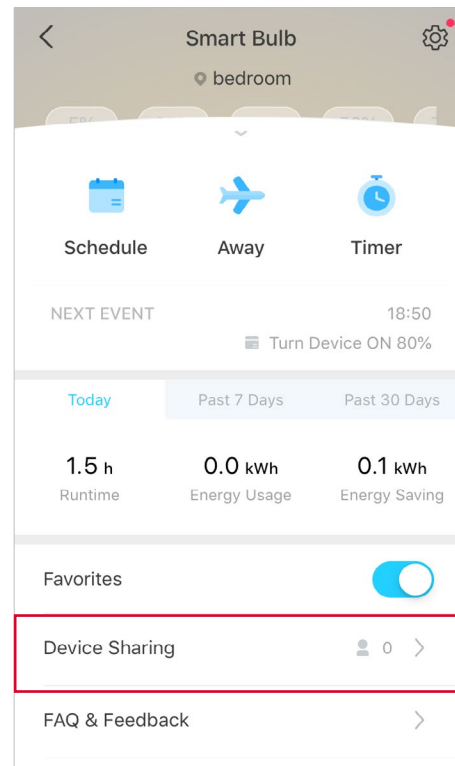
Method 1

On the home page, long press the bulb card and tap [Share](#).



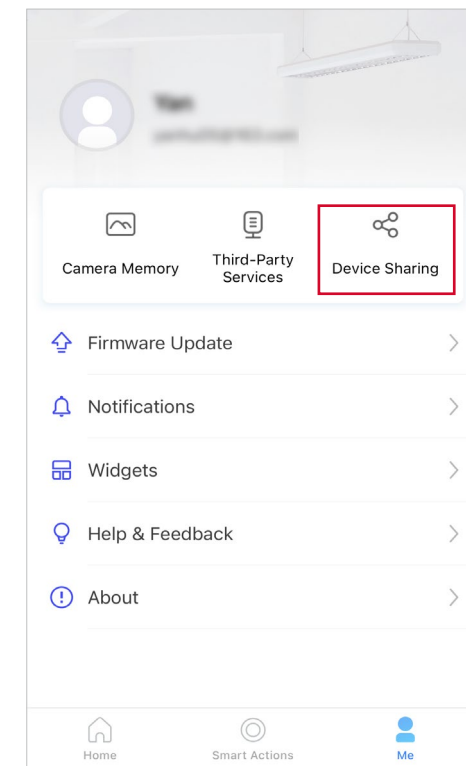
Method 2

Go to [Device Status](#) page, slide up and tap [Device Sharing](#).



Method 3

Go to [Me](#) page and tap [Device Sharing](#) to view your shared devices and devices shared from others.



Reset Your Smart Bulb

There are two types of reset available: a [soft reset](#) which resets the Wi-Fi settings only, and a [factory reset](#) that erases all of your custom settings and restore them to factory defaults.

Soft Reset (without losing the configuration settings except Wi-Fi)

1. Turn the light switch controlling the smart bulb to the on position first.
2. Switch it off and on **3** times, pausing for one second in between.
3. The smart bulb should blink 3 times, which indicates a successful soft reset.

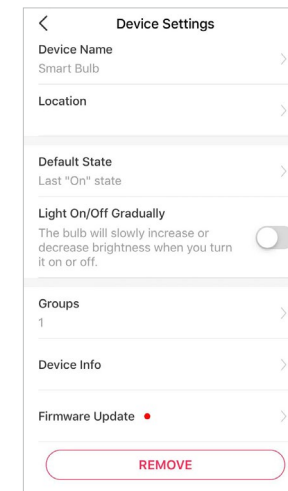
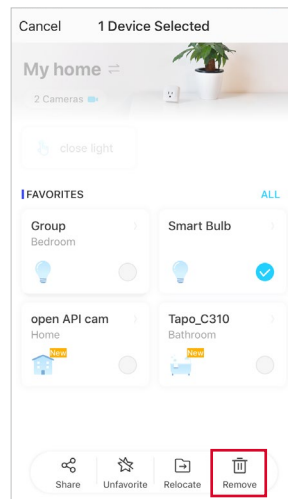
Factory Reset (back to factory default settings)

Method 1

1. Turn the light switch controlling the smart bulb to the on position first.
2. Switch it off and on **5** times, pausing for one second in between.
3. The smart bulb should blink 3 times, which indicates a successful factory reset.

Method 2

On the home page in Tapo app, long press the card and tap [Remove](#). **OR** Go to bulb's Settings page and tap [REMOVE](#) at the bottom.



Authentication

FCC Compliance Information Statement



Product Name: Smart Wi-Fi Light Bulb, Daylight and Dimmable

Model Number: Tapo L520E

Responsible party:

TP-Link USA Corporation

Address: 10 Mauchly, Irvine, CA 92618

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

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 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.

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

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

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2022.2.7

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz(20dBm)

EU declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU, and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tapo.com/support/ce/>

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.



UK declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK declaration of conformity may be found at <https://www.tapo.com/support/ukca/>



Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.



Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

- 1) This device may not cause interference, and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This equipment complies with IC 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.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-005(B)/NMB-005(B)

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice

注意!

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱：Tapo Smart Wi-Fi Light Bulb, Daylight & Dimmable				型號（型式）：Tapo L520E		
Equipment name				Type designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應板	—	○	○	○	○	○
其他及其配件	—	○	○	○	○	○

備考1. `超出0.1 wt %` 及 `超出0.01 wt %` 係指限用物質之百分比含量超出百分比含量基準值

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. `○` 係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. `—` 係指該項限用物質為排除項目。

Note 3: The “—” indicates that the restricted substance corresponds to the exemption.

Safety Information




- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- Do not use the device where wireless devices are not allowed.
- Only use the control provided with or specified by these instructions to control this device.

WARNING:

- NOT FOR EMERGENCY LIGHTING.
- Only use the control provided with or specified by these instructions to control this lamp. This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control.
- RISK OF ELECTRIC SHOCK OR BURNS. Switch OFF the light switch controlling the bulb and WAIT for the bulb to cool down before attempting to change it.
- Do not install the Smart Bulb with wet hands or when standing on wet or damp surfaces.
- Compatible with regular light switches. Not suitable for use with standard in-wall dimmers. Not compatible with photosensors, motion sensors, or timers. Dimmable via the app only.
- NOT for use in totally enclosed or recessed luminaires. Suitable for damp locations.
- The increased weight may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lamp retention.
- Operating Temperature: 0°C~40°C(32°F~104°F)
- Storage Humidity: 10%~90%RH, Non-condensing

- Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanation of the symbols on the product label

Symbol	Explanation
	Indoor use only
	AC voltage
	<p>RECYCLING</p> <p>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>