



TP-LINK®

User's Manual LB1XX Series



Smart Wi-Fi LED Bulbs

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Introduction

TP-LINK Smart Wi-Fi LED Bulbs, Tunable White and Multi-Color, are Wi-Fi enabled, energy efficient LED light bulbs that can be controlled via your iOS or Android smartphones or tablets without the needs of an additional hub or hardwired switch. Along with the TP-LINK Kasa mobile app, you can access your lights and create custom lighting automations from anywhere in the world with an active Internet connection.

Product Requirements

- A smartphone or tablet running iOS 8 or higher; Android 4.1x or higher.
- A Wi-Fi connection (supports 802.11n standard).

Important Safety Information

Before installing or replacing the Smart Wi-Fi LED Bulbs, read and follow all precautions, including the following:

- **WARNING: 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 Wi-Fi LED Bulb with wet hands or when standing on wet or damp surfaces.
- Not suitable for use with standard in-wall dimmers. Dimmable via the app only.
- Suitable for use in operating environment between -20°C and 40°C (-4°F and 104°F).
- This device is not intended for use with emergency exit luminaires.
- NOT FOR EMERGENCY LIGHTING.

Smart Wi-Fi LED Bulb Installation

- 1 Download **TP-LINK Kasa** from App Store or Google Play.



OR
scan QR
code

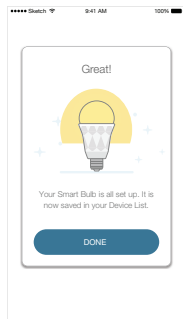
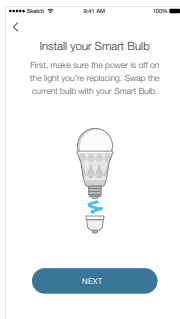
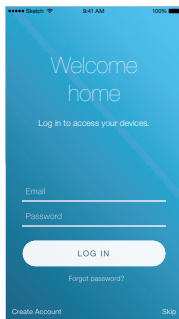


- 2 Connect mobile device to your **2.4GHz Wi-Fi** network.



Note: The Smart Wi-Fi LED Bulbs only supports 2.4GHz networks.

- 3 Launch **Kasa** and follow the in-app instructions to connect the Smart Wi-Fi LED Bulb to your Wi-Fi network.



Using Kasa with Smart Wi-Fi LED Bulbs

Kasa Account

While you don't have to have a Kasa account to use your devices, signing up for an account provides added functionality such as:

- Synchronization of settings and configurations to all your mobile devices.
- Ability to control and configure the devices from outside your home.
- Ability to customize your TP-LINK Smart Home devices with "Scenes" for a truly automated experience.
- Use of third-party services and products such as Amazon Echo.

Devices can only be associated with one Kasa account. To remove the association, turn off Remote Control in the Kasa's settings, or factory reset the device.

After creating your Kasa account, you will need to verify the email associated with your account by clicking a link in an email that Kasa sends you. Until you verify the email, much of the above functionality will not work.

Kasa Settings

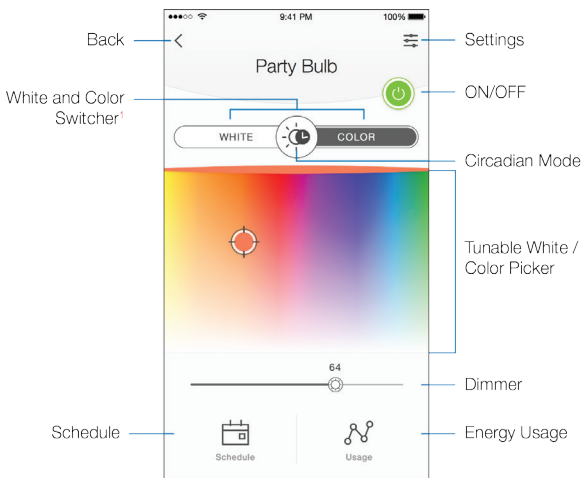
Kasa's Settings allows you to set your global preferences such as:

- **Remote Control** to control your Smart Home devices outside of your home. You need to sign in to your Kasa account first to turn on this function.
- **Location and Time** to set the location and time of where the Smart Home devices are located so that the Away Mode and Schedules can run on time. You can set your device's location using your smartphone's GPS function, or manually enter the latitude and longitude coordinates.
- **Firmware Update** to update your Smart Home devices when there is an update available. Refer to [*Firmware Update*](#) for instructions.

Kasa Controls

The features and functions displayed on this screen vary depending on the model version of your Smart Wi-Fi LED Bulb.

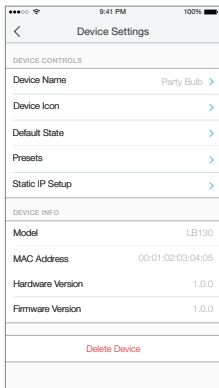
The Multi-Color bulb is used as an example below.



¹*Available for the Multi-Color bulbs only.*

Customizing Smart Wi-Fi LED Bulbs

You can personalize your Smart Wi-Fi LED Bulb with a descriptive name, icon, and other information from the bulb's details screen.



1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb to go to its controls.
2. Tap the  (Settings) icon at the top-right corner.
3. On the *Device Settings* screen, tap the  icon for each of these settings you want to personalize.
 - **Device Name** – Create a unique name for your

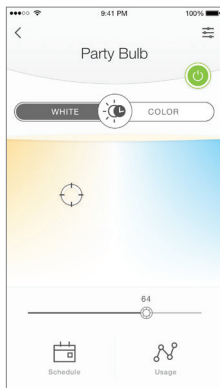
Smart Wi-Fi LED Bulb.

- **Device Icon** – Choose one of the available icons or use your own custom icon.
- **Default State** – Set the default state when the Smart Wi-Fi LED Bulb is switched on.
- **Presets** – Choose one of the presets or customize your own by tapping the  icon.
- **Static IP Setup** – Enter the static IP configured for your Smart Wi-Fi LED Bulb.

Tunable White

**Available for the LB120 and LB130 bulbs only.*

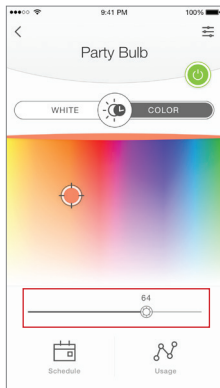
The LB120 bulb has an adjustable temperature range of warm (2,700k) to cool (6,500k) shades of white, and the LB130 bulb has color temperature rating of 2500k to 9000k, allowing you to adjust your home's lighting to suit your needs throughout the day.



1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb to go to its controls.
2. Pick a preferred color temperature (warm or cool) from the temperature spectrum.

Adjustment of Brightness

You can increase or decrease the bulb brightness (both white and color) from 1% to 100% using the dimmer slider.

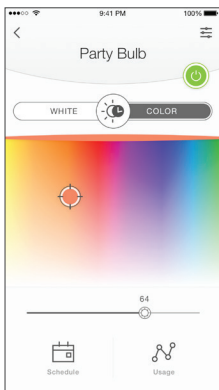


Remember: The Smart Wi-Fi LED Bulb can only be dimmed via the Kasa app. It's not recommended to be used with a standard in-wall dimmer.

Coloring your room

**Available for the Multi-Color bulb only.*

The Multi-Color bulb is capable of over 16 million colors that can be set to create the perfect ambiance in your home or office, or to add fun and exciting lighting effects to your home décor.

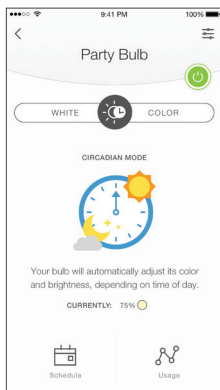


1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb to go to its controls.
2. Tap **COLOR** to switch to the Color mode.
3. Select a hue from the color spectrum.

Circadian Mode

**Available for the Tunable White and Multi-Color bulbs only.*

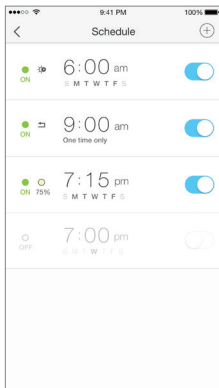
When enabled, the Smart Wi-Fi LED Bulbs dynamically adjust both light intensity and color temperature to mimic the natural changes in daylight throughout the day to support your body's circadian rhythm.



1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb to go to its controls.
2. Tap  to enable the Circadian mode.

Scheduling

You can set up your Smart Wi-Fi LED Bulbs to illuminate around your home at specific times on specific days of the week, or to slowly wake you up in the morning.



1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb that you want to create a schedule for.
2. Tap  (Schedule) to open the *Schedule* screen.
3. Tap  to create an event.
4. Within the *Create Event* screen, set your preferred

state for the light bulb (ON or OFF), brightness intensity, time, and day(s).

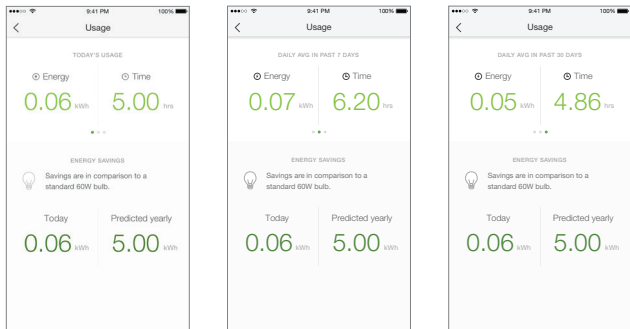
The screenshot shows the 'Create Event' screen of a mobile app. At the top, there's a status bar with signal strength, time (9:41 PM), and battery (100%). Below the title 'Create Event', there's a section 'Set bulb to' with three icons: 'Circadian' (sun/moon), 'Last "ON" State' (bulb), and 'Off' (power button). Below these are five color-coded circles representing brightness levels: 100% (yellow), 75% (orange), 50% (light blue), 25% (dark blue), and 'Custom' (target icon). The next section is 'At', showing a time picker set to 6:00 pm. Below that is 'Repeating every' with a row of day selection buttons: S, M, T, W, T, F, S. The 'M' and 'T' buttons are highlighted in blue. At the bottom is a large blue 'SAVE' button.

5. Tap **Save**.

You can create as many events as you like and edit them at any time from the *Schedule* screen.

Energy Monitoring

With energy usage monitoring capability, you get a real-time energy consumption report (average daily, weekly, and monthly) on your Smart Wi-Fi LED Bulbs.

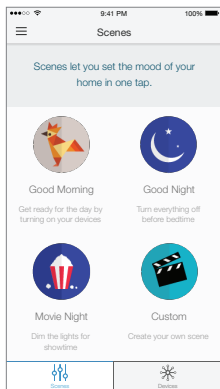


1. On the *Devices* screen, tap on the row of the Smart Wi-Fi LED Bulb to go to its controls.
2. Tap  (Usage).

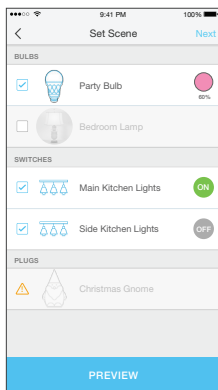
Creating Scenes

Take full advantage of your TP-LINK Smart Home devices in your home with “*Scenes*”. A scene is a preset group of Smart Devices (such as Smart Plugs, Smart Wi-Fi LED Bulbs, and Smart Switches) that can be customized and controlled simultaneously at the touch of a button from your smartphone or tablet to easily set your mood or fit any special occasion. For example, set a customized “*Movie Time*” to turn on the home theater system plugged into a Smart Plug and dim down the lights in your Entertainment Room to 10% at the same time.

Please keep in mind that SCENES can only be set and controlled once you're signed in to your Kasa account.



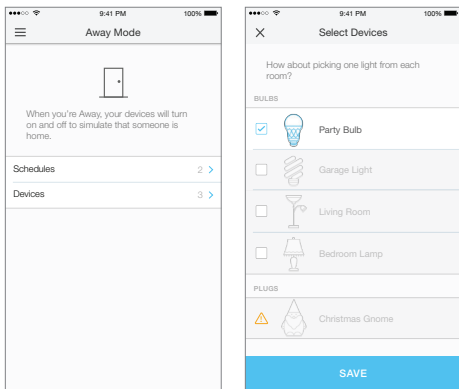
1. On the main *Home* screen, tap the  (Scenes) tab to switch to the Scenes view.
2. Choose one of the preset scenes to start, or choose **Custom** to set up your own scene that is personalized to suit your liking. To set a scene, you will need to select one or more devices to be controlled, and then define their actions and/or states.



Note that you must have at least one Smart Device in order to create a scene.

Away Mode

Away Mode allows you to automate your Smart Wi-Fi LED Bulbs in combination with other Smart Home products to respond to your specific schedules. For example, turn on and off Smart Devices at certain intervals to simulate occupancy when you're away from home.



1. Tap the  (navigation drawer) and then **Away Mode**.
2. Tap **Select Devices** to select your Smart Home devices, and then tap **Save**.
3. If you want to set a schedule to automate Away Mode so you don't have to manually activate it, tap **Set Schedule**.

Note: Multiple schedules can be set to repeat weekly on the day(s) of your choice.

4. Within the *Create Event* screen, set your preferred mode (Away or Home), time, and day(s).

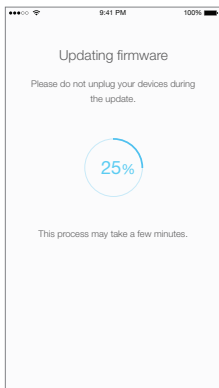
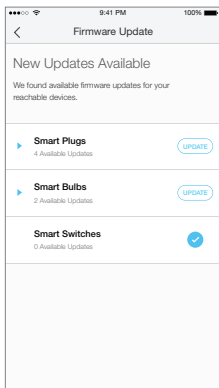
5. Tap **Save**.

You can always toggle Away Mode on and off in the sidebar by tapping on the translucent button under the Kasa logo.

Maintaining the Smart Wi-Fi LED Bulbs

Firmware Update

To keep the Smart Wi-Fi LED Bulbs happy and up-to-date with all the latest improvement and fixes, we recommend that you update the firmware when updates are available.



1. Launch **Kasa**.
2. Tap the  (navigation drawer) and then **Settings**.
3. Tap **Firmware Update**.

4. Within the *Firmware Update* screen, tap **Update**.

Remember: Only the Smart Wi-Fi LED Bulbs that are currently reachable and have an available update will be shown in the *Firmware Update* screen.

It is important to leave the Kasa app running while it finishes updating the Smart Wi-Fi LED Bulbs. Try not to minimize the app, close the app, or interrupt the update to prevent problems.

Resetting

Resetting the Smart Wi-Fi LED Bulbs can help you troubleshoot any issues you may have. There are two types of reset available—a soft reset which does not erase the current settings, and a factory reset that erases all of your custom settings and restore them to factory defaults.

To reset the Smart Wi-Fi LED Bulbs without losing the configuration settings:

1. Turn the light switch controlling the bulb to the **OFF** position.
2. Flip the light switch on and off **3** times.

To reset the Smart Wi-Fi LED Bulbs to factory defaults:

1. Turn the light switch controlling the bulb to the **OFF** position.
2. Flip the light switch on and off **5** times.

Troubleshooting

Frequently Asked Questions

1. Can I control multiple Smart Wi-Fi LED Bulbs at the same time?

Yes. You can manage and save multiple bulbs together as a “scene”.

2. How far can I be and still able to control the Smart Wi-Fi LED Bulbs?

You can be anywhere in the world and still able to control your Smart Wi-Fi LED Bulbs as long as you have an Internet connection.

3. The Smart Wi-Fi LED Bulb appears offline or unreachable, what should I do?

- Check the light switch and make sure that it's switched to ON. The Smart Wi-Fi LED Bulb requires an “always-on” power supply to operate properly.
- Make sure you are connected to the same Wi-Fi network to control it locally. To control the Smart Wi-Fi LED Bulb outside of your home, sign in to your Kasa account and enable Remote Control.

- Reset the Smart Wi-Fi LED Bulb and reconnect it to your Wi-Fi network.

4. Why do my Smart Wi-Fi LED Bulbs show “Local Only”?

That means the Smart Wi-Fi LED Bulbs can only be controlled through your Wi-Fi network. To control the Smart Wi-Fi LED Bulb outside of your home, sign in to your Kasa account and enable Remote Control.

5. Can I dim the Smart Wi-Fi LED Bulbs?

The Smart Wi-Fi LED Bulbs are not designed for use with traditional wall-dimmer. It can only be dimmed via the Kasa app.

6. How do I reset the Smart Wi-Fi LED Bulb to factory defaults?

Refer to Resetting.

7. How do I pair the Smart Wi-Fi LED Bulbs with Amazon Echo?

For pairing instructions, please visit www.tp-link.com/en/faq-944.html or within the Kasa Help section.

Usage Tips

- Place the Smart Wi-Fi LED Bulb within the range of your Wi-Fi router or access point (approximately 100 feet).
- Avoid physical obstructions and radio interference in the surrounding area.

Support

If you encounter any issues with the Smart Wi-Fi Light Bulbs or configuration, please visit **www.tp-link.com/support** for web support and troubleshooting information.

Specifications

	LB100	LB110	LB120	LB130
Product				
Lifetime Rating	15,000 hours	25,000 hours	25,000 hours	25,000 hours
Base	E26	E26	E26	E26
Dome	Frosted / Shatterproof	Frosted / Shatterproof	Frosted / Shatterproof	Frosted / Shatterproof
Lumens	600 (50W equiv.)	800 (60W equiv.)	800 (60W equiv.)	800 (60W equiv.)
Dimmable*	✓	✓	✓	✓
Temp.	2700k	2700-6500k	2700-6500k	2500-9000k
Color	Warm White 2700k / CRI > 80	Warm White 2700k / CRI > 80	Tunable White: Warm to Natural 2700k-6500k / CRI > 80	16 million colors 2500k-9000k / CRI > 80
Beam Angle	270	270	270	150

Connectivity

Wi-Fi 802.11n / Remote and Cloud Access

Energy Monitoring

**The Smart Wi-Fi LED Bulb can be dimmed via the Kasa app only.*

Limited Warranty

To learn more about the Limited Warranty for TP-LINK products, please visit www.tp-link.us/support/rma.

FCC Statement

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."

CE Mark Warning

CE 1588

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.

RF Exposure Information

This device meets the EU requirements (1999/5/EC 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.

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 and 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-3 (B)/NMB-3(B)

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice

注意！依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，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或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行；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。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

減少電磁波影響，請妥適使用。

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。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。



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



Safety Information

- When product has a power button, the power button is one of the ways to shut off the product; when there is no power button, the only way to completely shut off the power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

	AC voltage
	RECYCLING 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. 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.