# Automation

Automation allows you to set interactions between your devices by adding triggers and actions. For example, when you get home and your smartphone is connected to the Deco network (which is a trigger), the living room plug automatically turns on (which is an action). Then the kettle plugged into the living room plug will start to boil water.

Take this example to show the setup steps as below. Follow the steps to create an automation.

🔖 Note: If you want to create automations for your smart devices, follow Add Smart Devices to add the devices to the Deco network first.

1. Tap 👆 > Automation > CREATE.

2. Set when the automation takes effects.

3. Add a trigger.

4. Select the trigger type.
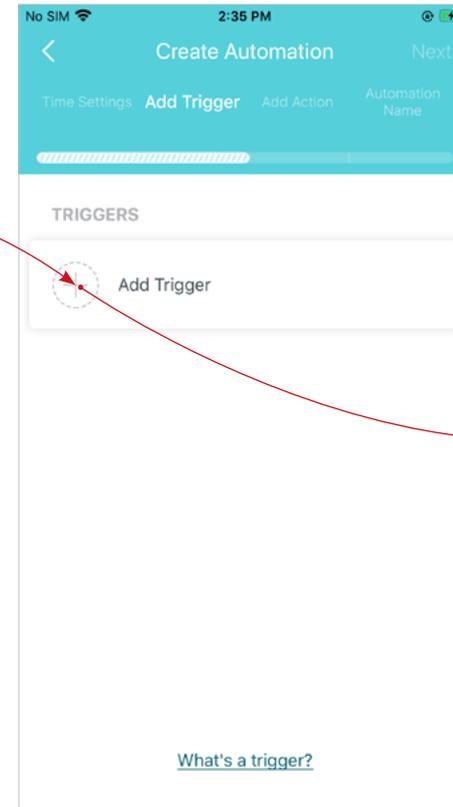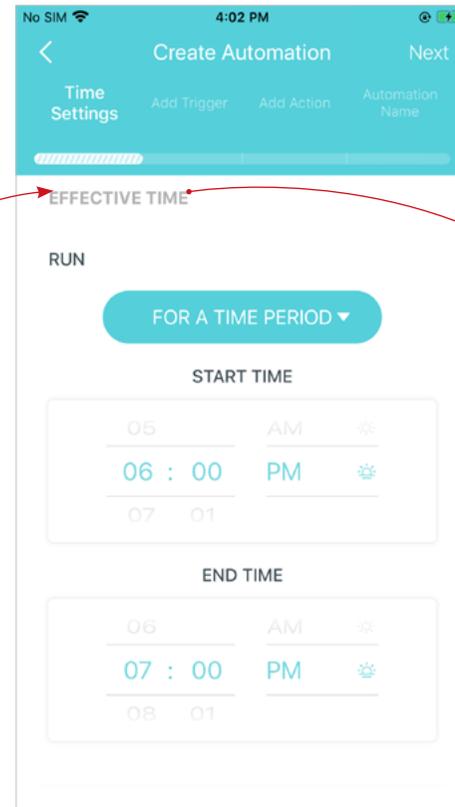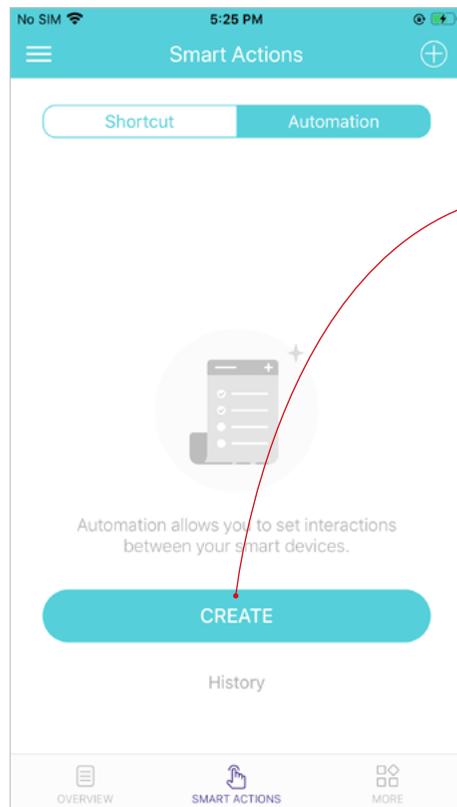
5. Select the trigger device and set the trigger details.
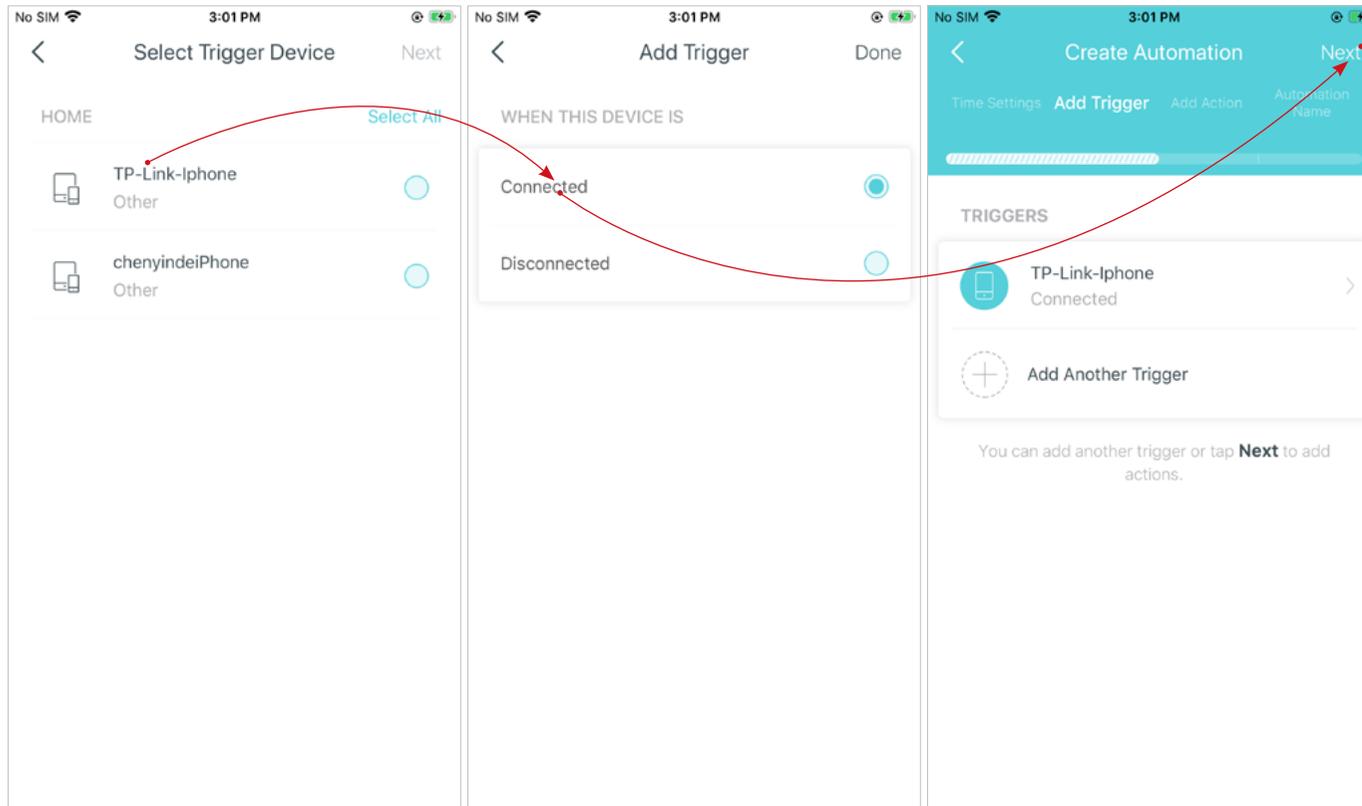
6. Add an action.
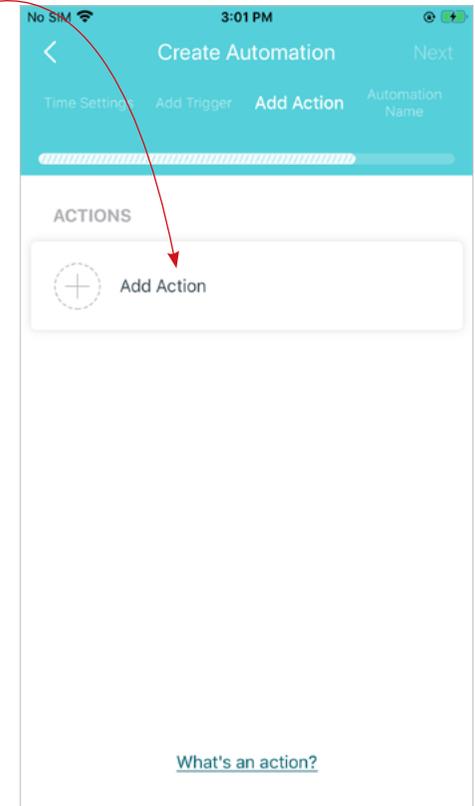
7. Select the action device and set the action details. For example, set the action as below then the living room plug will turn on after you tap the shortcut icon, and will turn off automatically after 1.5 hours.

Tip: If you have set Delay Action, you will need to wait for the time you set before the action takes effect.

Turn on/off

How long will the action last

The waiting time before the action starts
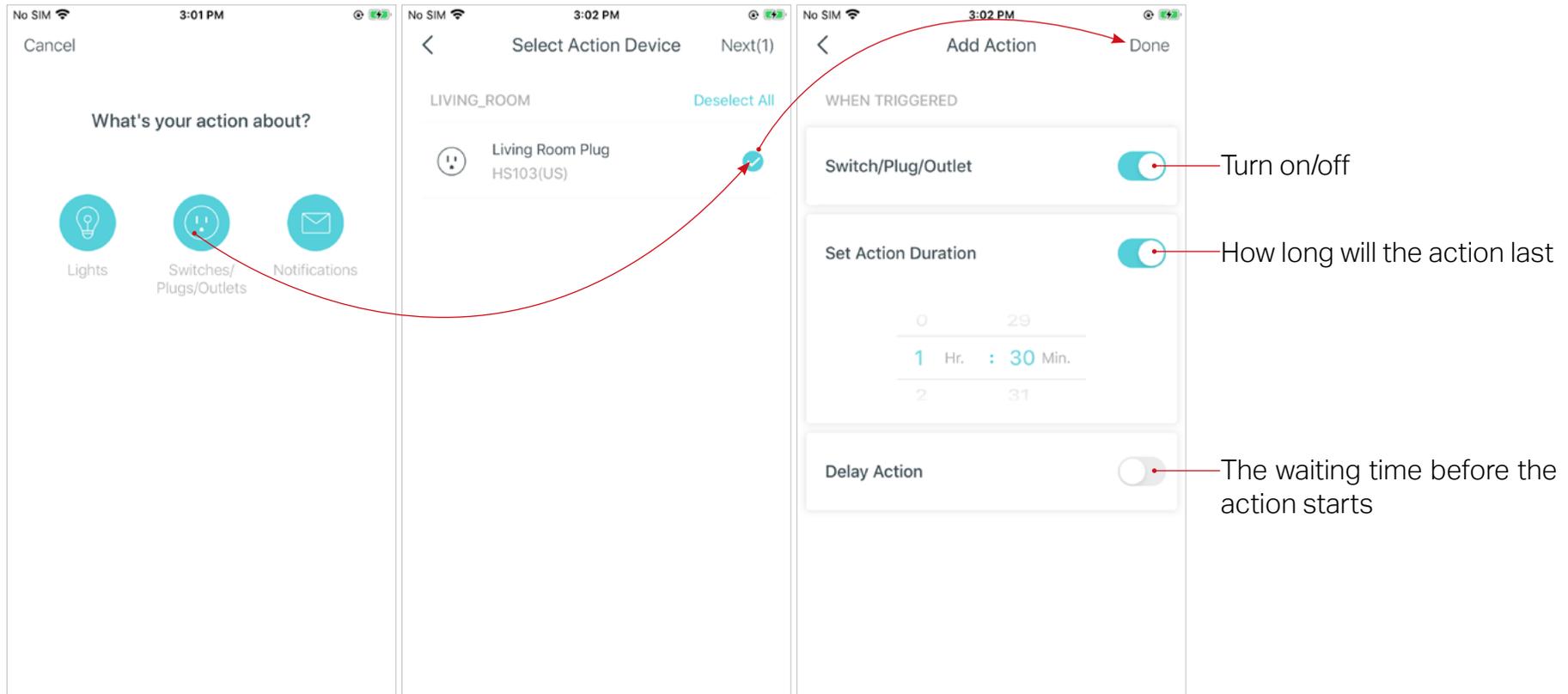
8. Set a name for the automation.
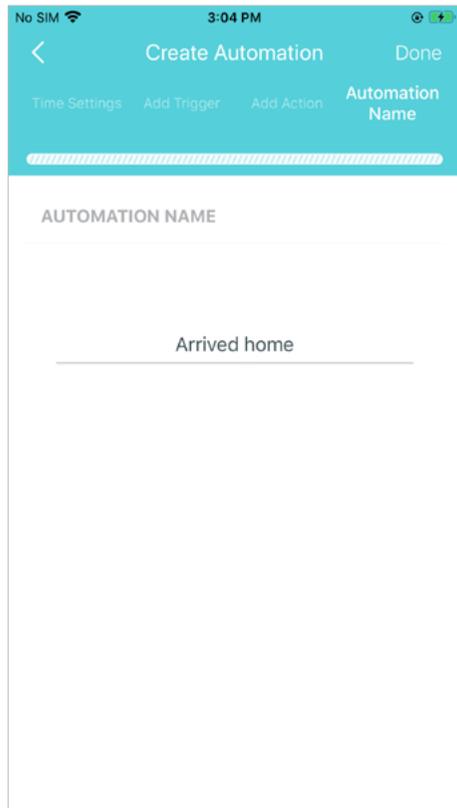
9. Automation setup completed. The automation will take effect when the trigger is executed.
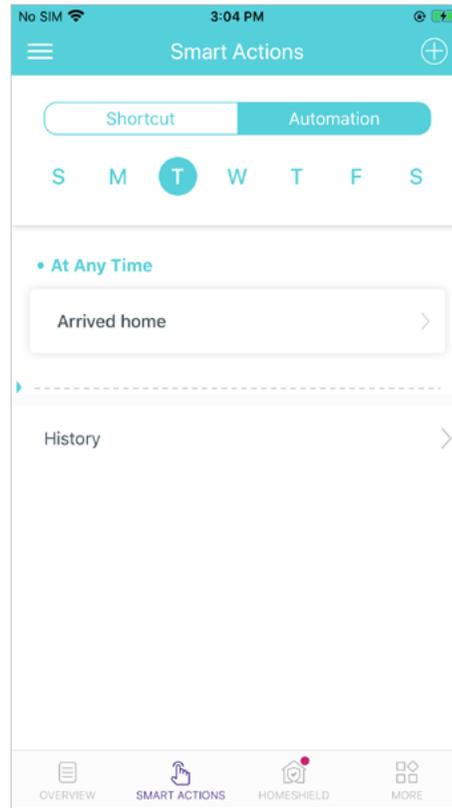
HomeShield

Whether protecting your network from malicious attacks, managing your family's online activities, or prioritizing devices to get better performance, TP-Link HomeShield provides you a kit of basic (free) and Pro (charged) features to enhance your whole home network with enhanced security.

An overview of HomeShield features are shown below.

- **What is HomeShield:** https://www.tp-link.com/homeshield/

🚩 Note: Please refer to your Deco app to check the Basic and Pro features of your actual model.

- **How to use HomeShield features and upgrade to HomeShield Pro:** go to the product support page at https://www.tp-link.com and refer to TP-Link HomeShield User Guide.
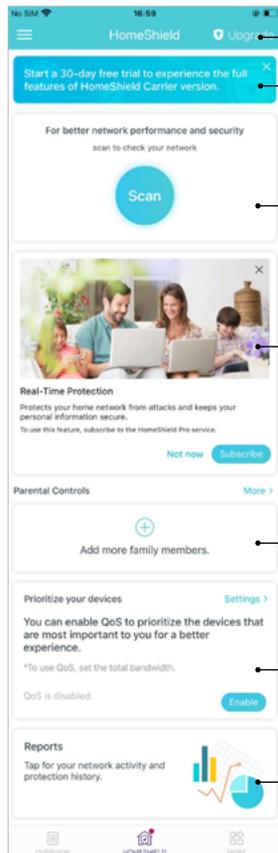
HomeShield Pro Subscription: To enjoy more features, you can upgrade to HomeShield Pro. Check more details about the Basic and Pro features here.

Scan: Examine your network regularly to identify the potential risks, thus improving your network performance and security.

Real-Time Protection: Real-Time Protection is for Pro users only. There are three ways to ensure your home network and your IoT devices remain safe: (1) block malicious websites, protect your home network and applications against external attacks and eliminate vulnerabilities; (2) prevent infected devices from sending sensitive information or security threats to clients outside your network; (3) identify IoT devices and immediately monitor their security performance once they join the network.

Parental Controls: Create profiles for family members and specify the devices that belong to each. Set individualized parental controls including when and for how long each person can access the internet. Block inappropriate content and pause the internet if necessary.

QoS: Prioritize the connection of a particular device for a set duration, such as a family member's laptop for one hour during a video call.

Weekly/Monthly Reports: Review a weekly or a monthly list of usage, such as security threats, top visited contents, and more, to better manage your family's online activities.

Wi-Fi Settings

You can change the network name and password of your main network at any time and share the network easily with family and friends.

Tap ⊞ > Wi-Fi.

Manage main network (e.g. change your main network's Wi-Fi name and password, hide the network from Wi-Fi list, etc.).
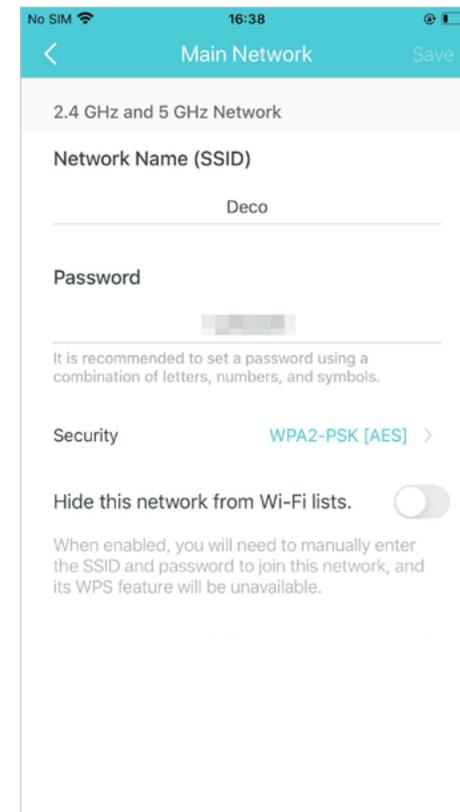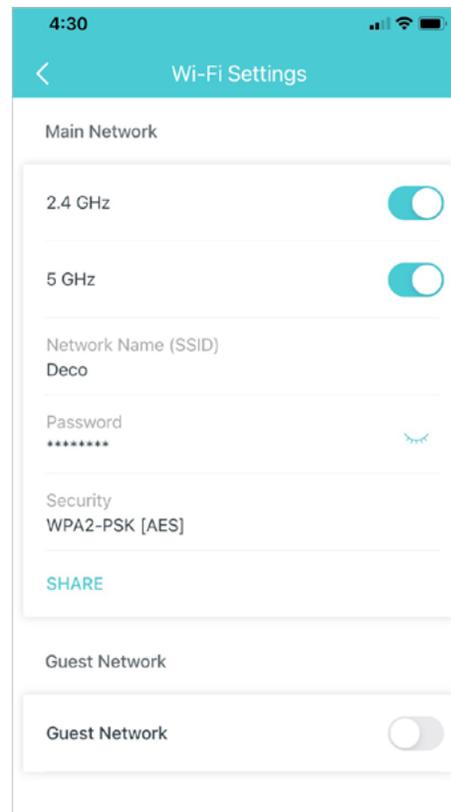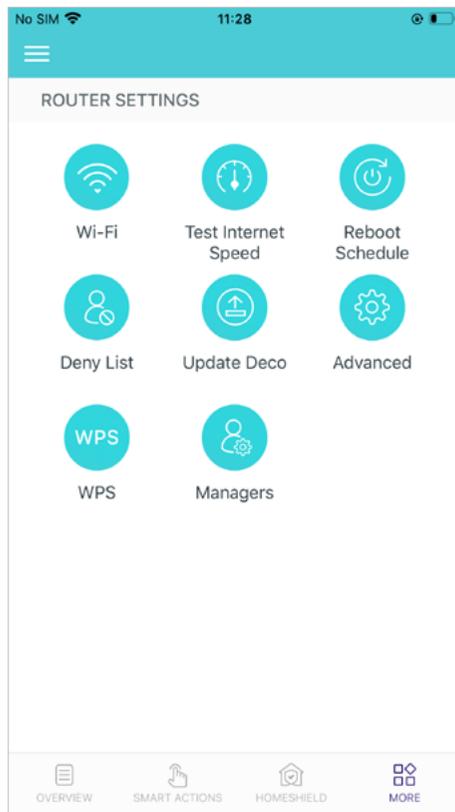
Guest Network

You can create and share a separate network for guests to guarantee the security and privacy of your main network.

Tap ⊞ > Wi-Fi and enable Guest Network.

Manage the guest network. Change the Wi-Fi name or create a password for the guest network,
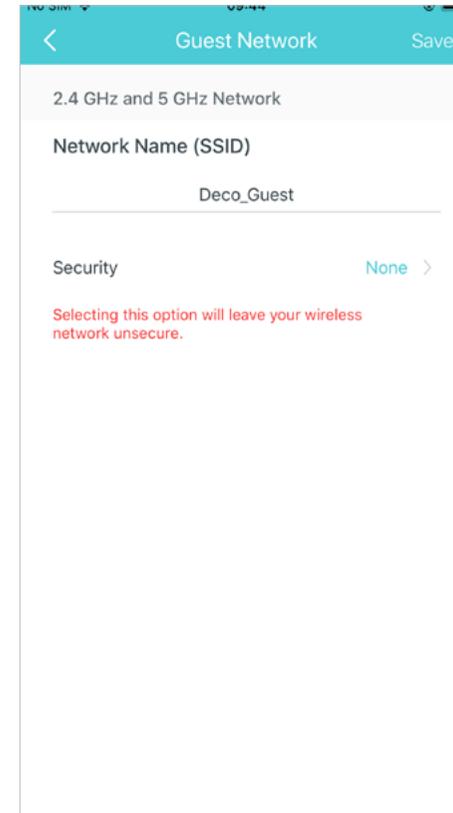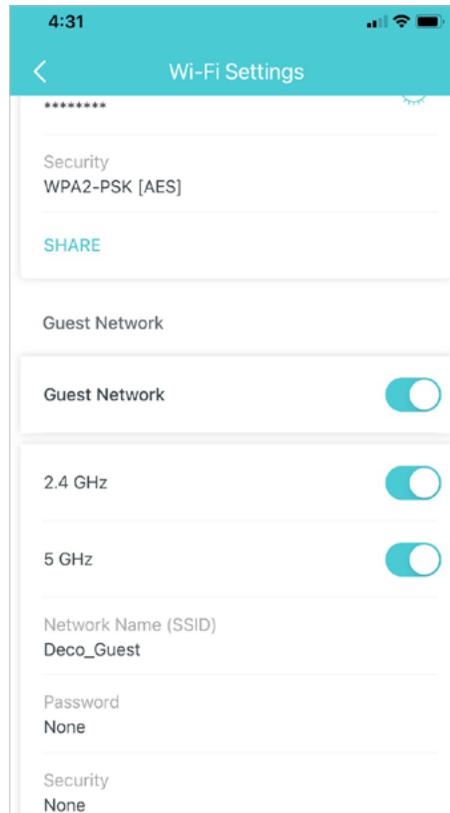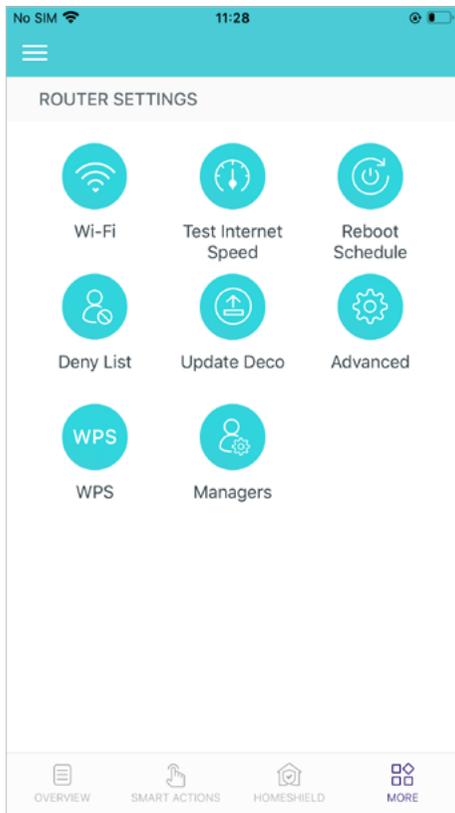
Test Internet Speed

You can test the download and upload internet speed easily.

Tap ⊞ > Test Internet Speed.

Test the internet speed with an auto-selected server or a listed test server. Check the speed test history or clear the history.
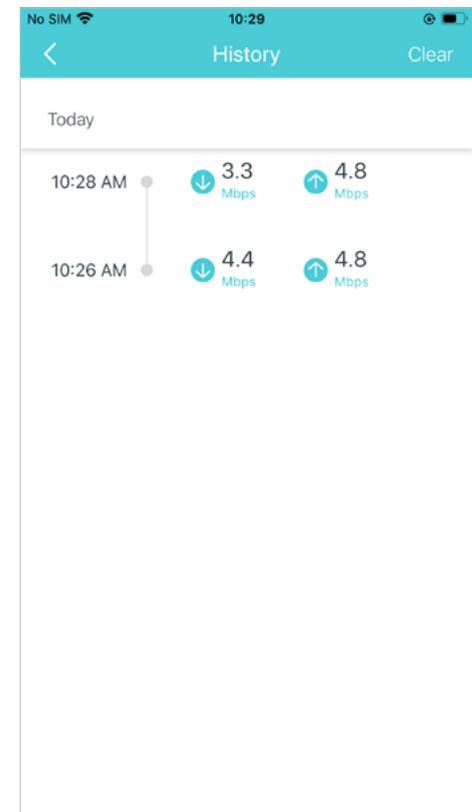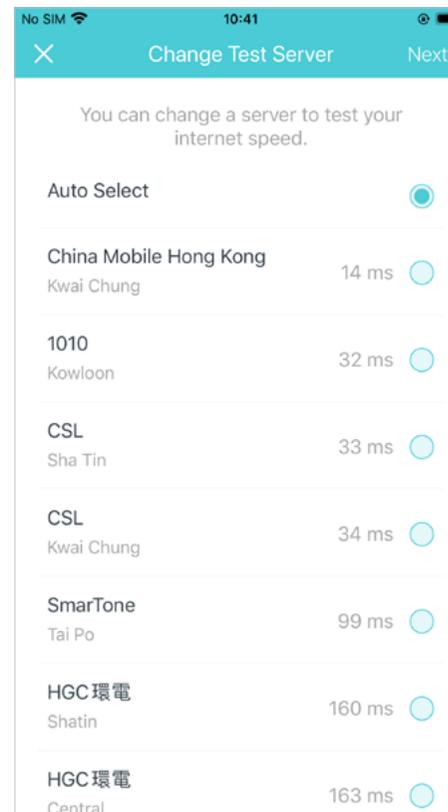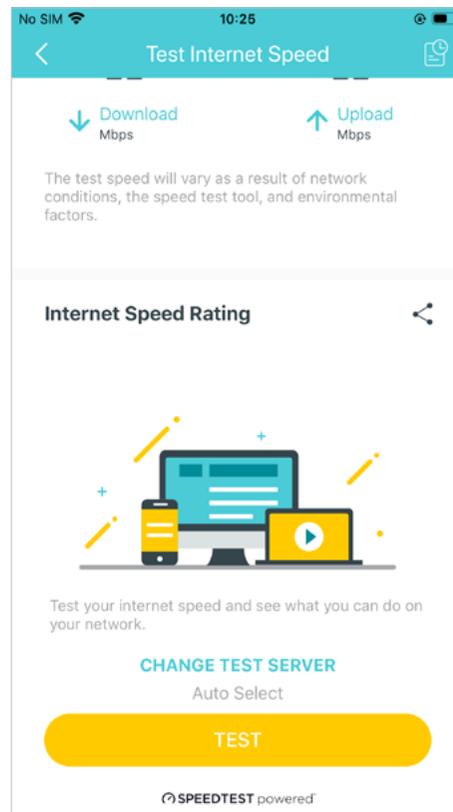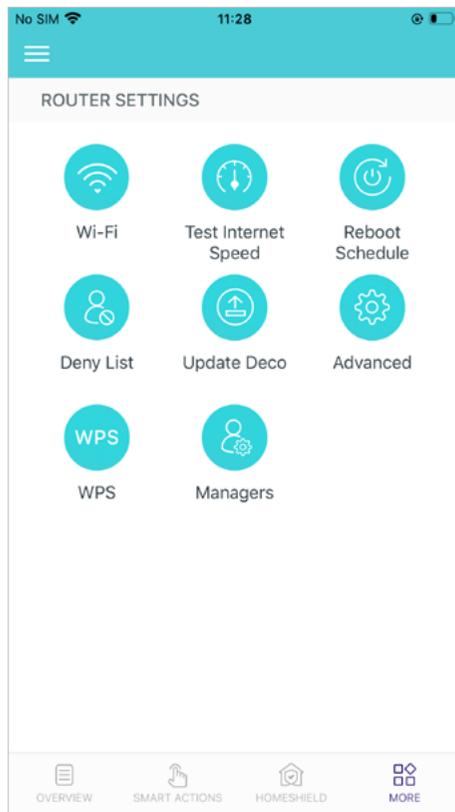
Reboot Schedule

You can set when and how often your Deco reboots regularly.

Tap ⊞ > Reboot Schedule.

Toggle on Reboot Schedule. Set how often and when your Deco reboots. Then the next reboot is scheduled at a specific time every day or every week.
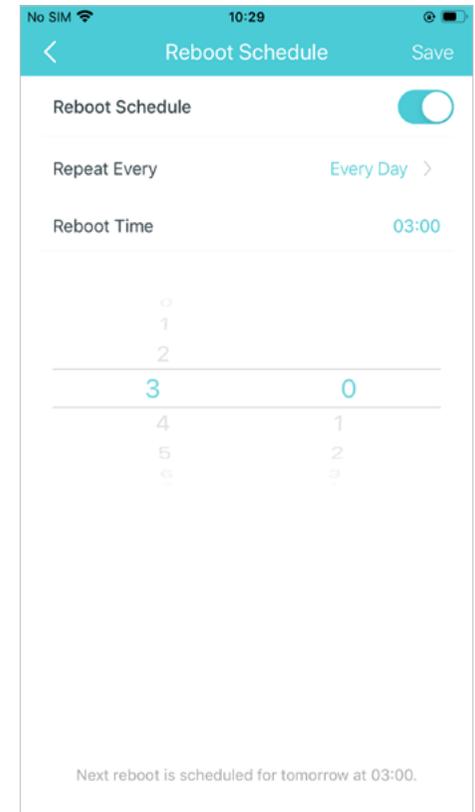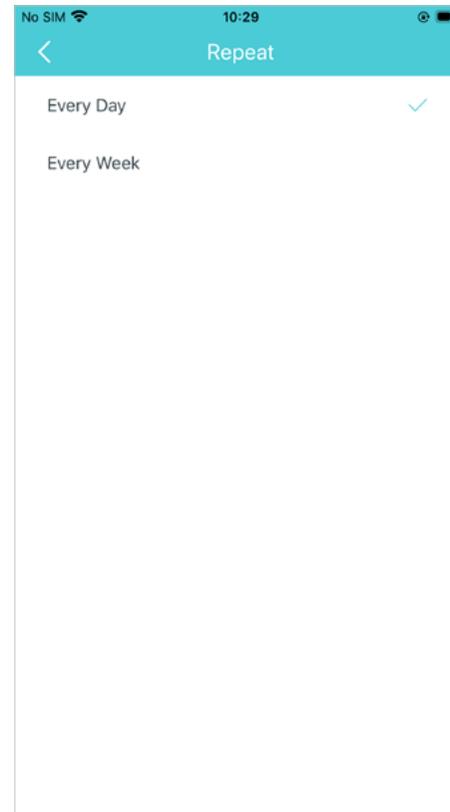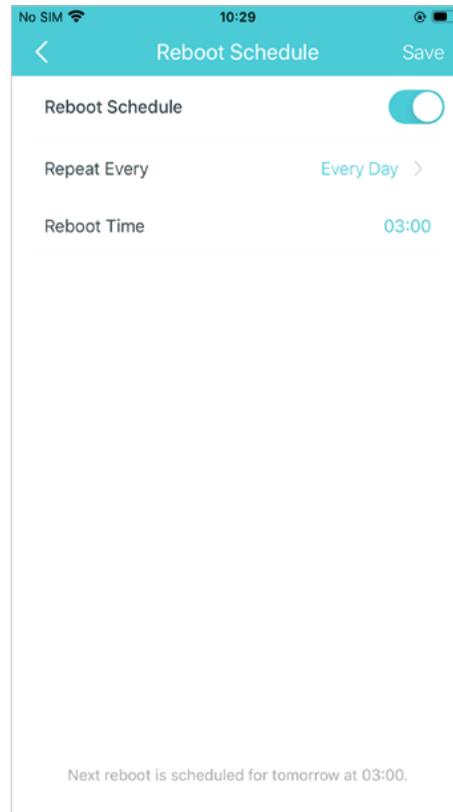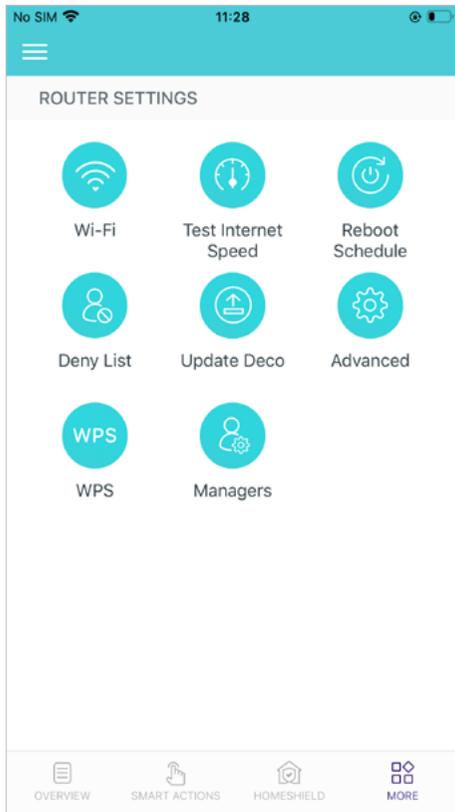
Deny List

Add devices to the deny list to prevent the devices from accessing your network, ensuring the safety of your personal information shared in the network.

Tap ⊞ > Deny List.

Tap + and add clients or other devices to the deny list.

Remove devices/clients from deny list.
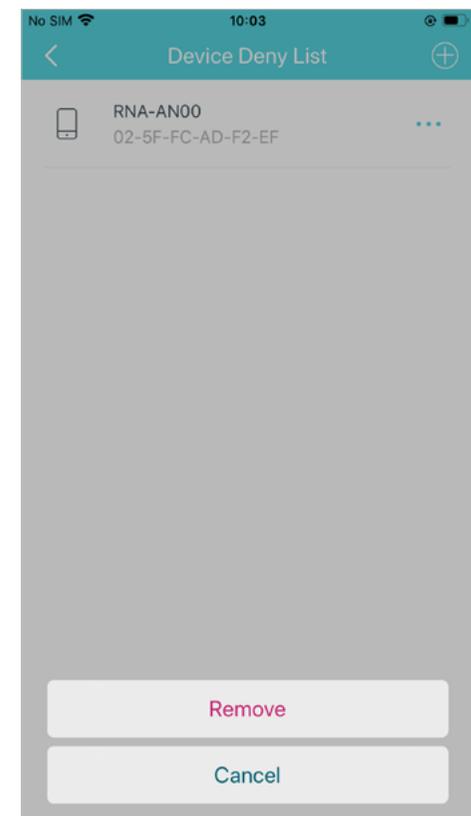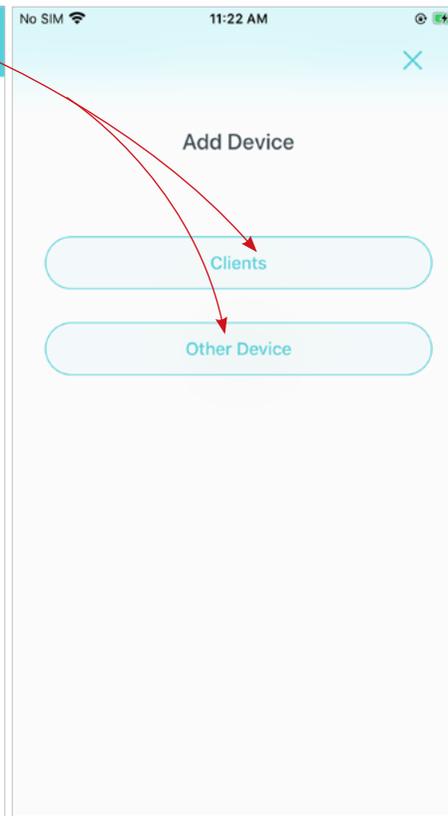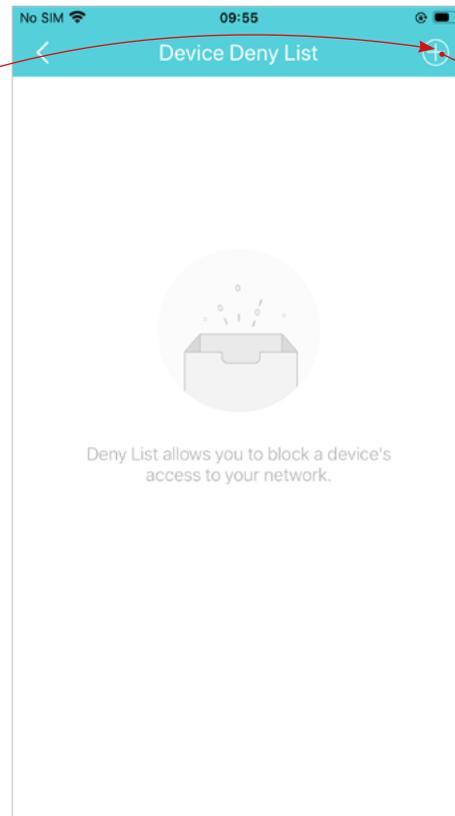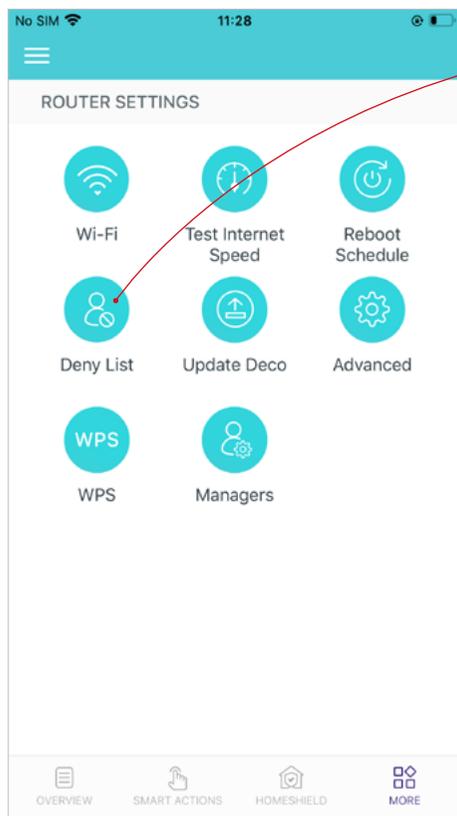
Upgrade Your Deco

TP-Link is dedicated to improving product features and providing a better customer experience. An up-to-date firmware provides better and more stable network performance. Always update your Deco to the latest firmware version when prompted in the Deco app.

1. Tap ⊞ > Update Deco
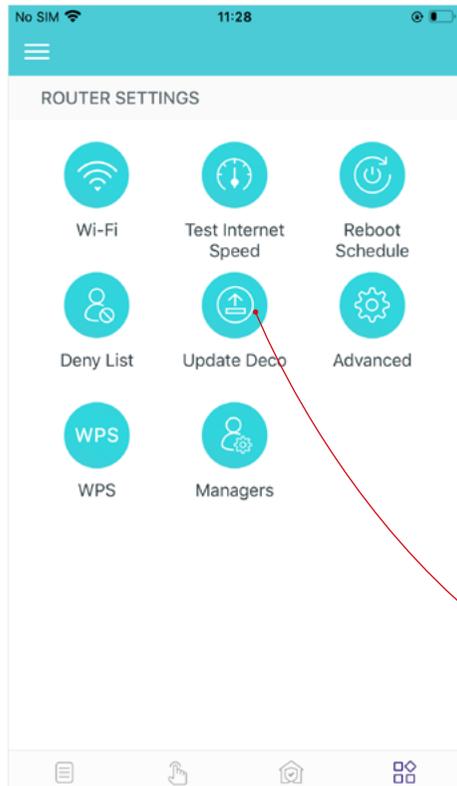
2. Download and install the firmware (if any) and follow app instructions to update your Deco to the latest version.
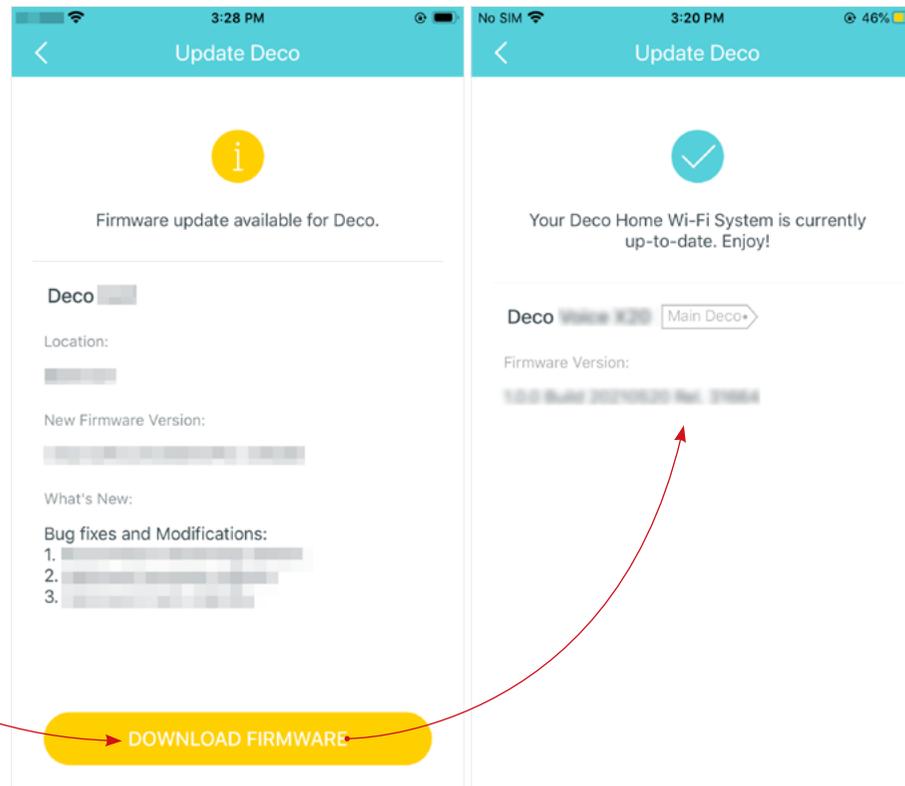
Advanced Features

Additional features are available under the Advanced menu. You can modify WAN settings (IPv4 & IPv6), add IPv6 firewall rules, modify LAN IP, set up DHCP server, enable VLAN/IPTV/MAC Clone mode, reserve the same IP address for a specific device, set up port forwarding rules to make your local computers accessible to other devices over the internet, enable TP-Link DDNS/SIP ALG/UPNP/fast roaming/beamforming, control Deco's LED, change the operation mode, set connection alerts and notifications.

Tap ⊞ > Advanced.

View IPv4 details or change the internet connection type.

Enable IPv6 to set up an IPv6 internet connection.

Add IPv6 firewall rules to allow specific devices to access the specified services.
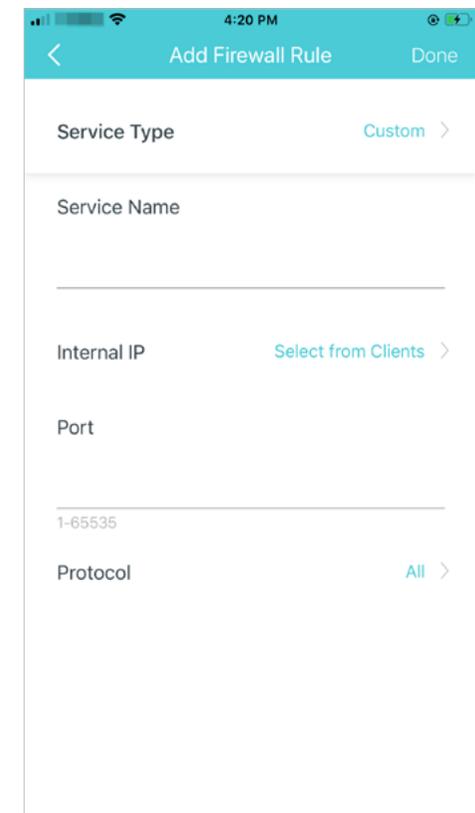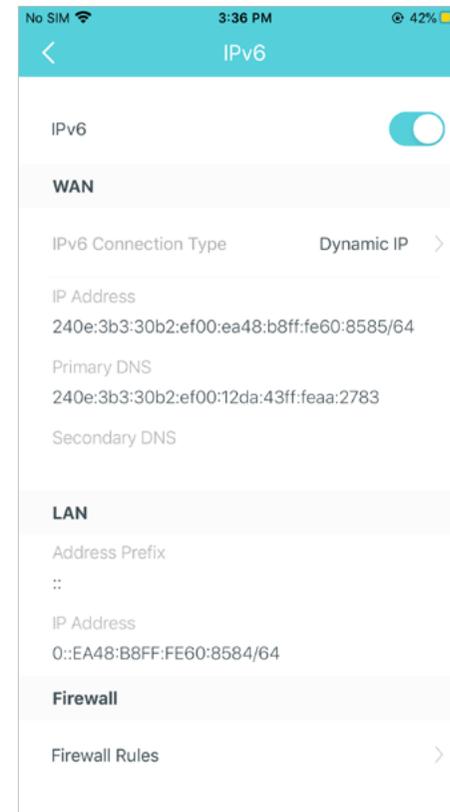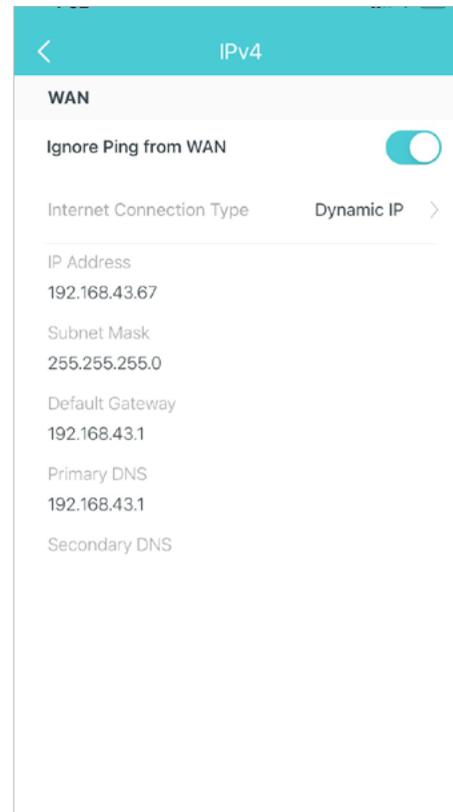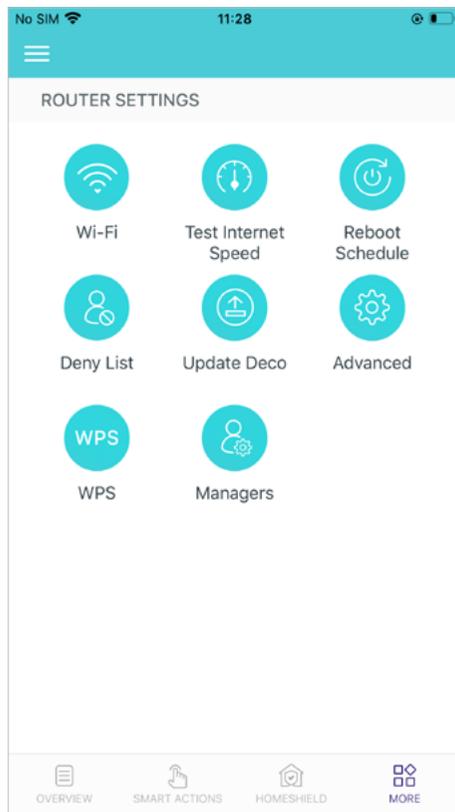
Modify LAN IP to avoid IP address conflict.
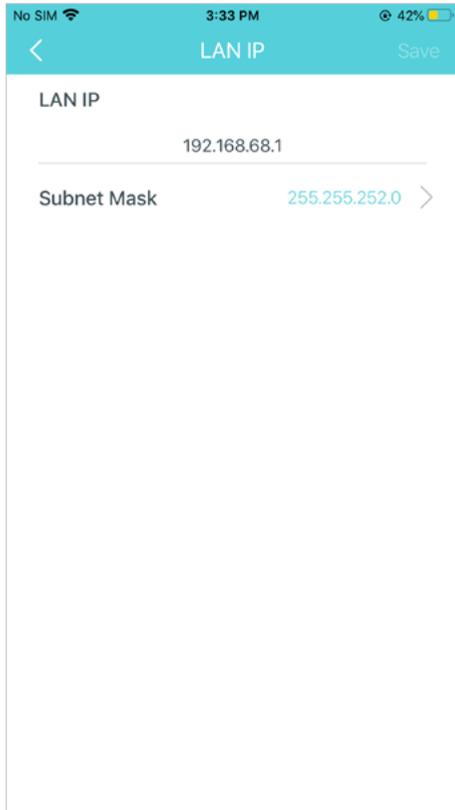
Change DHCP server settings.
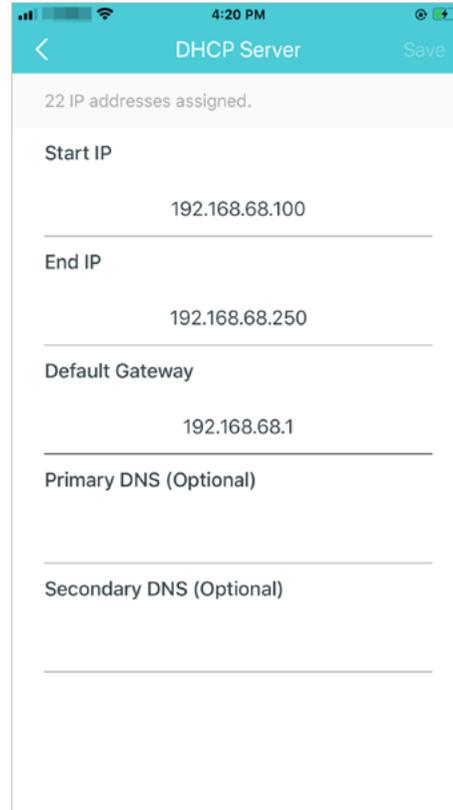
Enable IPTV/VLAN mode to support IPTV services.
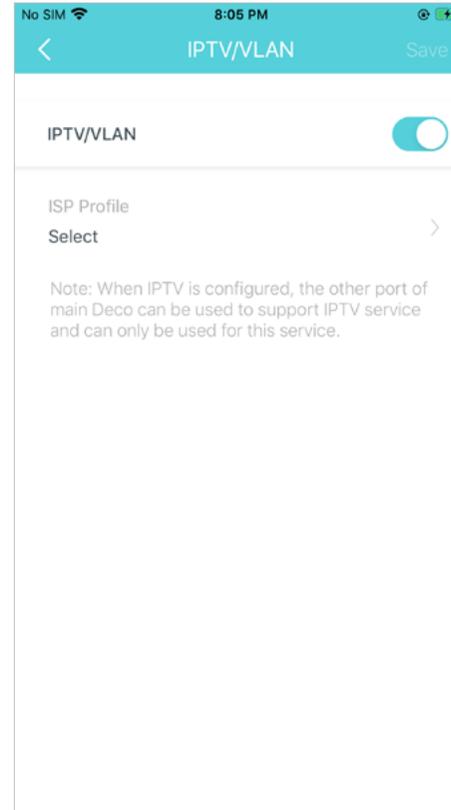
Enable MAC Clone if Deco fails to connect to the internet.

@ Tip: For more about MAC Clone, refer to https://www.tp-link.com/support/faq/2925/

No SIM 🗢	3:33 PM	@ 42% 🔋
‹	LAN IP	Save

LAN IP

192.168.68.1

Subnet Mask 255.255.252.0 ›

..l 🗢	4:20 PM	@ 🔋
‹	DHCP Server	Save

22 IP addresses assigned.

Start IP

192.168.68.100

End IP

192.168.68.250

Default Gateway

192.168.68.1

Primary DNS (Optional)

Secondary DNS (Optional)

No SIM 🗢	8:05 PM	@ 🔋
‹	IPTV/VLAN	Save

IPTV/VLAN ⬤

ISP Profile
Select ›

Note: When IPTV is configured, the other port of main Deco can be used to support IPTV service and can only be used for this service.

..l 🗢	4:21 PM	@ 🔋
‹	MAC Clone	Save

MAC Clone ⬤

Use Client MAC Address ◯

Use Custom MAC Address ◯

Tip: Make sure you select or enter the MAC address specified by your ISP.

Reserve IP addresses for specific devices to recognize and manage the device more easily.
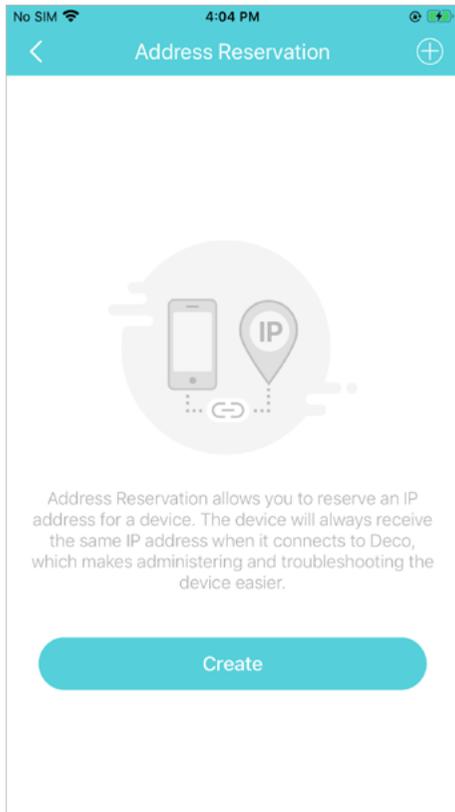
Set up port forwarding rules to enable devices in your network accessible over the internet with safety.
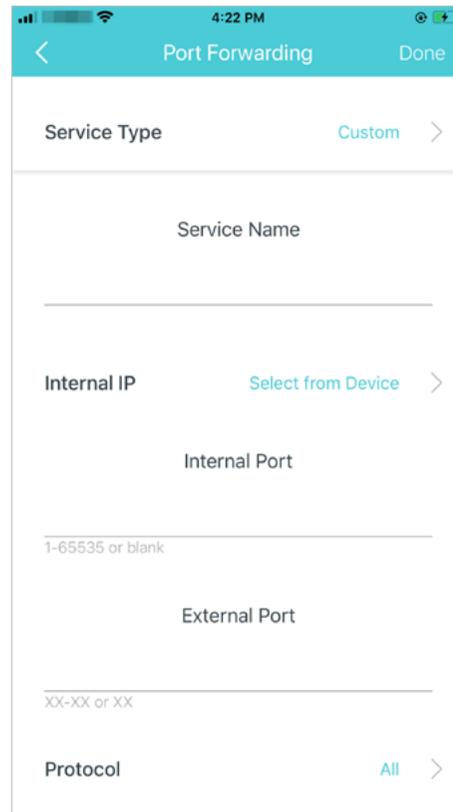
Register a TP-Link DDNS domain name to access your router and local servers using a domain name.
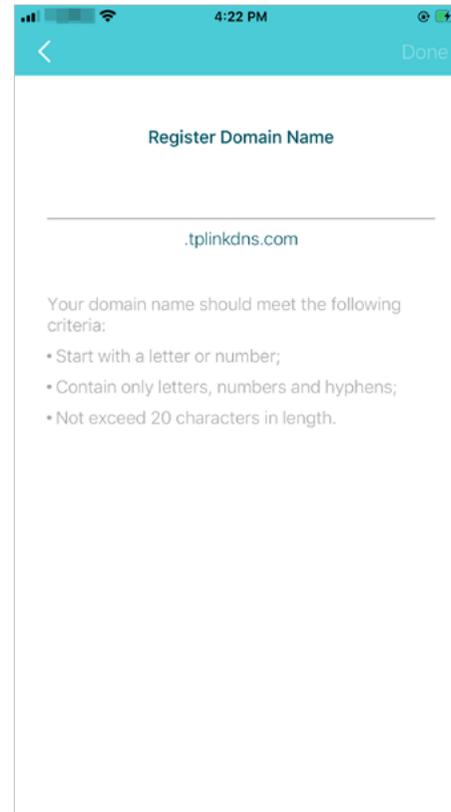
Enable SIP ALG to communicate with SIP (Session Initiation Protocol) servers via NAT).

No SIM 📶   4:04 PM   ⊕ 🔋

‹   Address Reservation   ⊕

IP

Address Reservation allows you to reserve an IP address for a device. The device will always receive the same IP address when it connects to Deco, which makes administering and troubleshooting the device easier.

Create

📶   4:22 PM   ⊕ 🔋

‹   Port Forwarding   Done

Service Type   Custom   ›

Service Name

Internal IP   Select from Device   ›

Internal Port

1-65535 or blank

External Port

XX-XX or XX

Protocol   All   ›

📶   4:22 PM   ⊕ 🔋

‹   Done

Register Domain Name

.tplinkdns.com

Your domain name should meet the following criteria:

• Start with a letter or number;
• Contain only letters, numbers and hyphens;
• Not exceed 20 characters in length.

📶   4:23 PM   ⊕ 🔋

‹   SIP ALG

SIP ALG   ⬤

When enabled, clients can communicate with SIP (Session Initiation Protocol) servers via NAT.

Enable UPNP to allow your local network to dynamically open ports for applications like gaming.
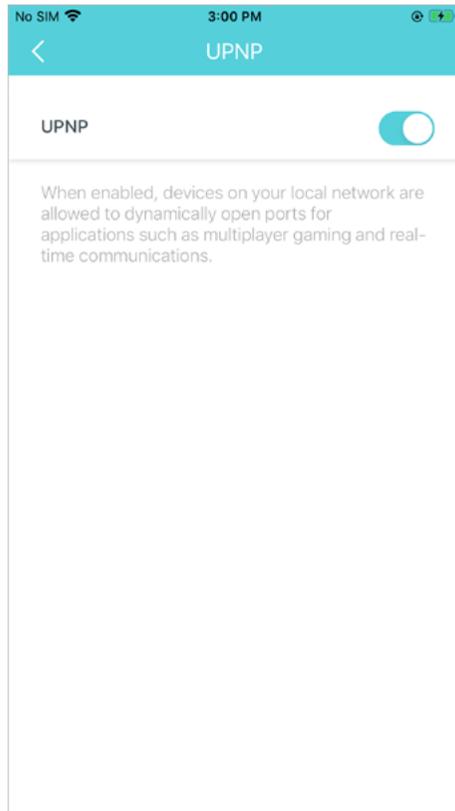
Enable Fast Roaming to allow your wireless devices to switch connection to different Decos.
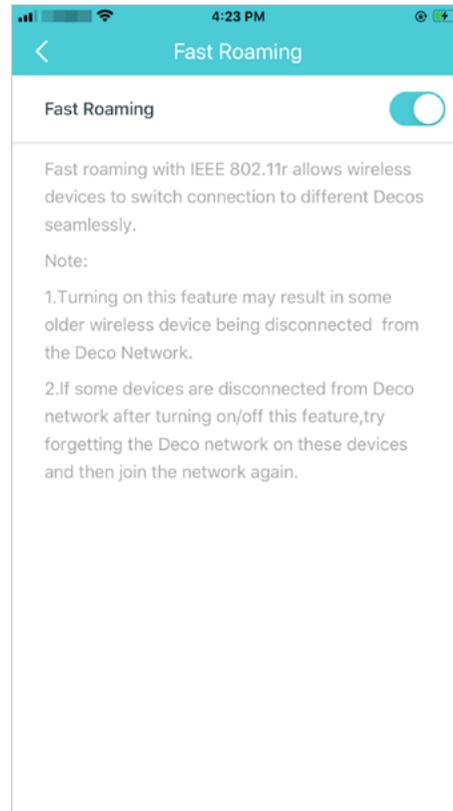
Enable Beamforming to concentrate Wi-Fi signal towards connected devices for stronger connections.

Toggle off LED to turn off the light on Deco. Configure the Night Mode to turn off the LED light at bedtime only.

No SIM 🔋 3:00 PM

UPNP

UPNP

When enabled, devices on your local network are allowed to dynamically open ports for applications such as multiplayer gaming and real-time communications.

4:23 PM

Fast Roaming

Fast Roaming

Fast roaming with IEEE 802.11r allows wireless devices to switch connection to different Decos seamlessly.

Note:

1.Turning on this feature may result in some older wireless device being disconnected from the Deco Network.

2.If some devices are disconnected from Deco network after turning on/off this feature,try forgetting the Deco network on these devices and then join the network again.

4:23 PM

Beamforming

Beamforming

Beamforming concentrates Wi-Fi signal towards connected devices for stronger connections.

4:23 PM

LED Control

LED

Night Mode

Everyday, the LED will be off during this time period.

From   10:00 PM >

Until   7:00 AM >

42

Change the operation mode.

🔖 Note: When the Deco works in Access Point mode, advanced features such as IPv4, Address Reservation, Port Forwarding, and DHCP server are not available.

No SIM 🗘	14:44	⊕ ◼
‹	Operation Mode	

Router (Default) ⦿

In wireless router mode, Deco connects to the internet directly via Dynamic IP, Static IP, PPPoE, etc., and shares internet access to multiple wired or wireless devices. NAT and DHCP server are enabled by default.

Access Point ○

In access point mode, Deco connects to a wired or wireless router via an Ethernet cable and extends the wireless coverage of your existing network. Functions like NAT, Parental Controls, QoS, and Connection Alerts are not supported in this mode.

Set connection alerts to receive notifications once the clients connect to or disconnect from Deco.

No SIM 🗘	3:37 PM	⊕ 41% ◻
‹	Connection Alerts	

New Device Alerts   Push Notifications ›

Known Device Alerts   On ›
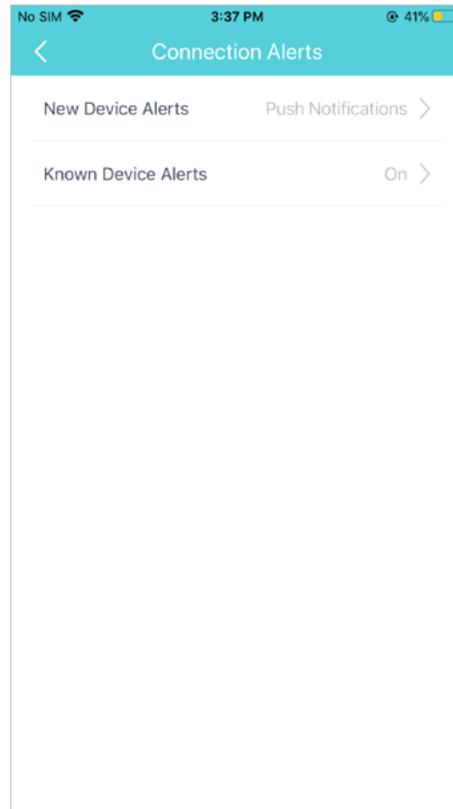
Set notifications to receive alerts in the notification bar.

‹	Notifications	Save

Notifications   Enabled

Notifications are enabled. You'll receive alerts in the Notifications bar. Disable it on your device's **Settings > Notifications** page.

Firmware Updates   ⬤

Antivirus Alerts   ○

New Device Detected   ⬤

Monthly Reports   ⬤

Device Alerts   ⬤

Promotional Messages   ⬤

43
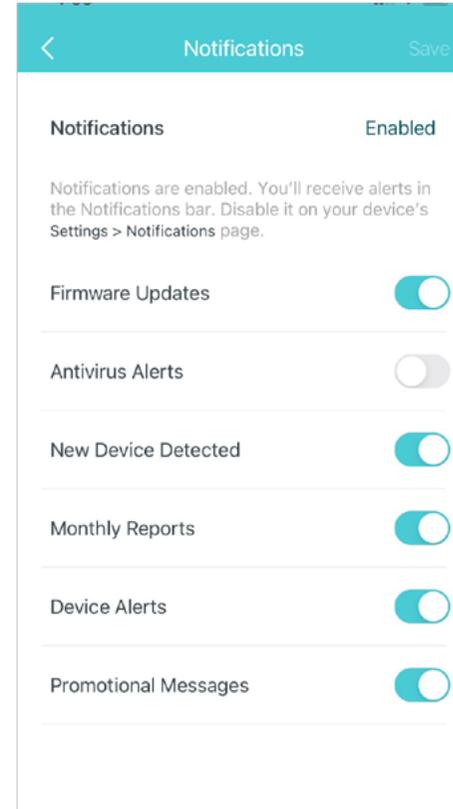
WPS

WPS (Wi-Fi Protected Setup) helps you to quickly and securely connect a client to the network with a tap without entering any password.

1. Tap ⬚⬚ > WPS.
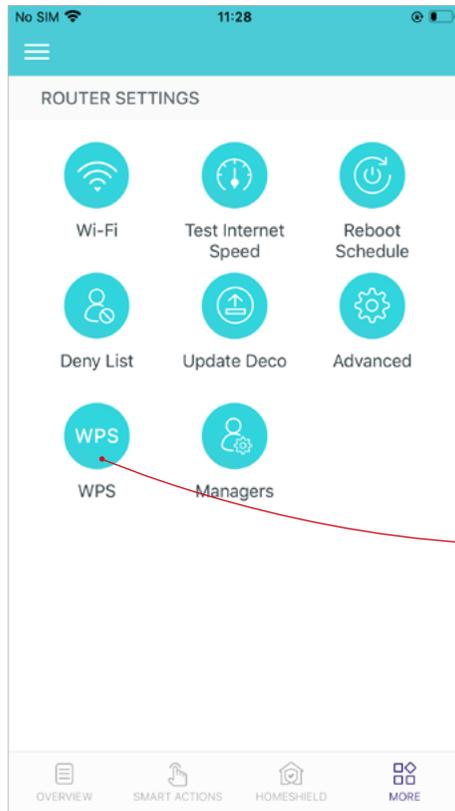
2. Tap the WPS icon on Deco app and then on your client.
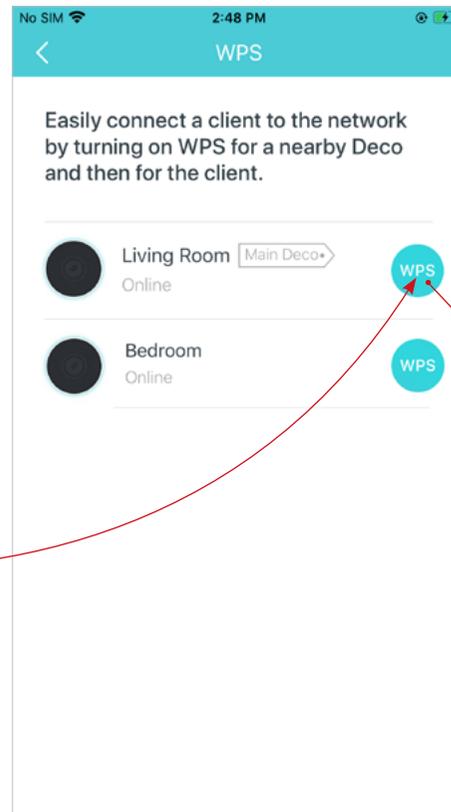
3. Your device has connected to the network successfully if shown as below.
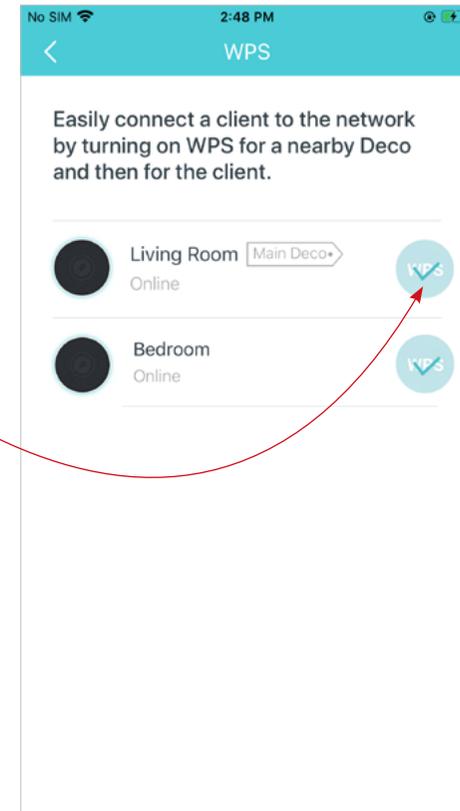
Managers

Add friends and family members to help manage your network. Each manager should have their own TP-Link ID.

🔖 Note: Managers can not modify owner's account, add other accounts, or set manager privileges.

Tap ⊞ > Managers, and follow app instructions to add other TP-Link ID accounts as managers.
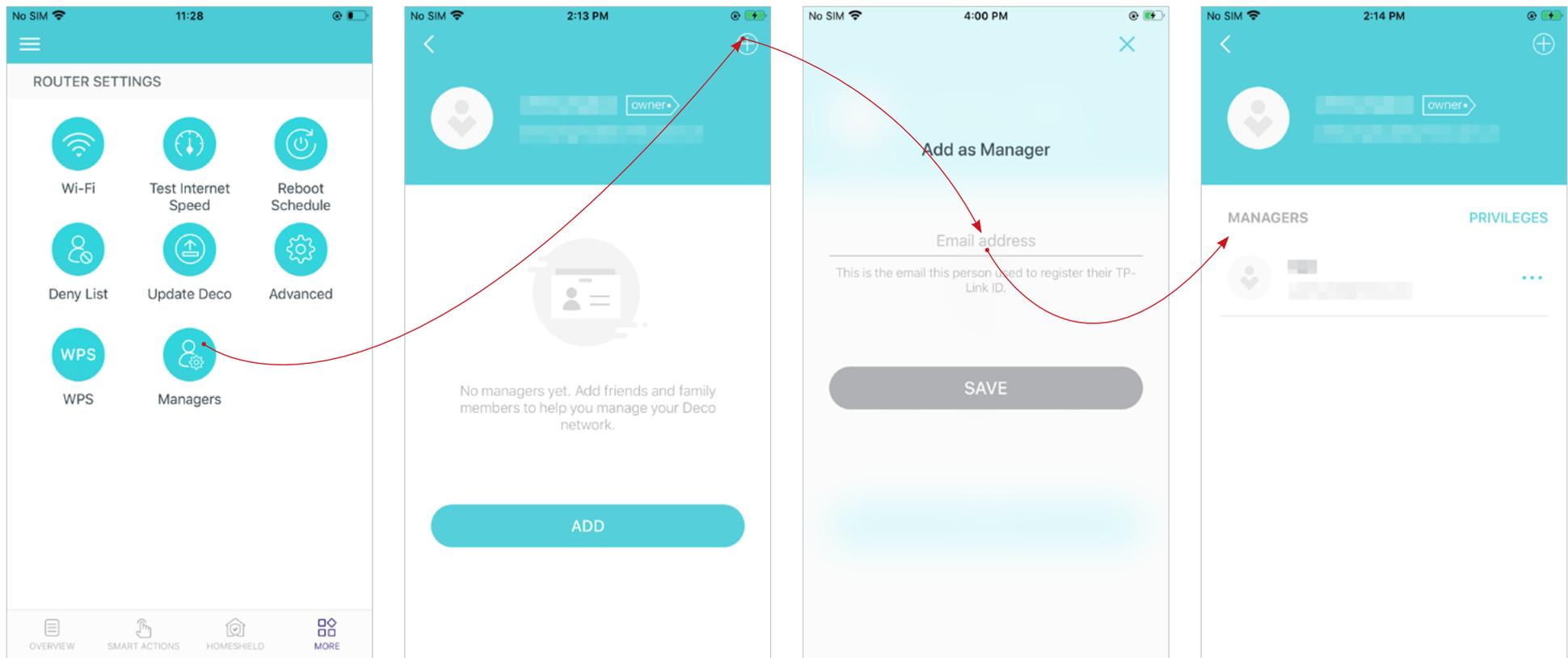
Set privileges for managers.

🔖 Note: Privileges may vary slightly depending on the model, the current operation mode, and software version you have.
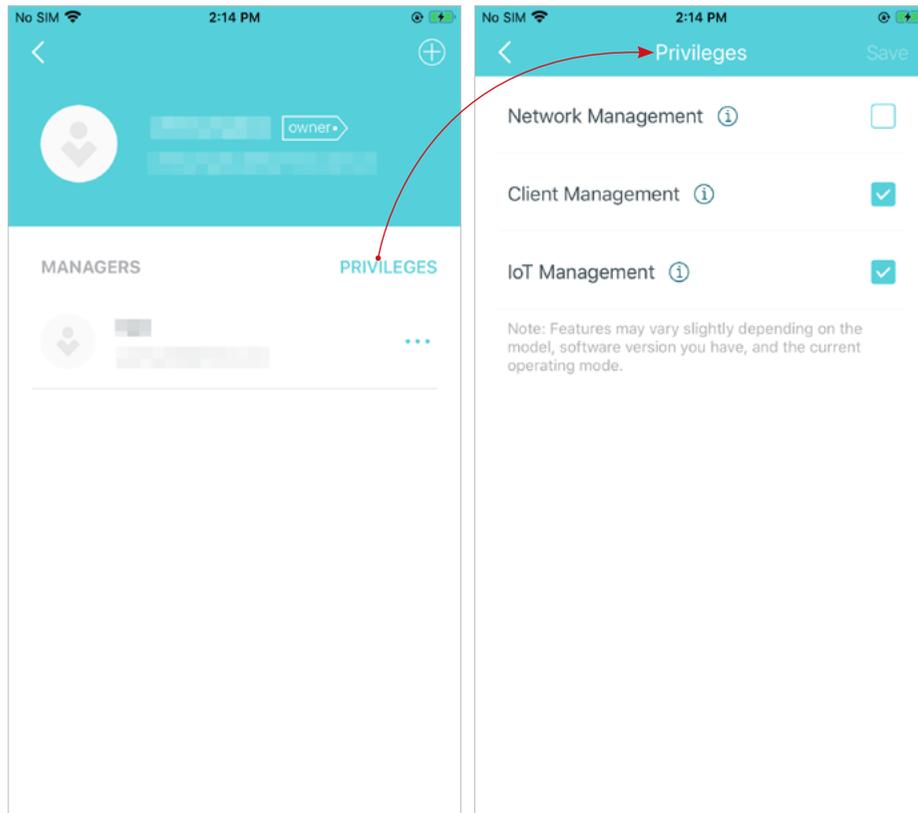
Remove managers.
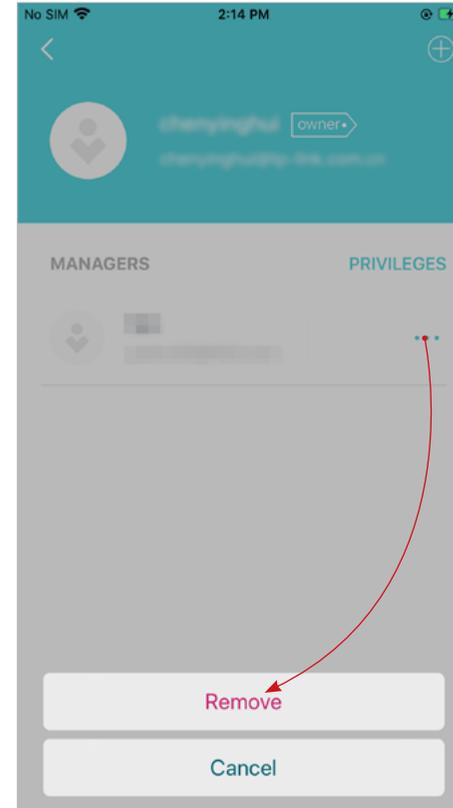
Control Your Deco with Alexa

Alexa Integration allows you to control your Deco using Amazon's Alexa voice service. You can control and customize your home network by giving simple voice commands to Alexa, such as enabling the Guest Network, turning off your Deco LEDs, and more.

Follow the steps below to use Alexa voice commands to control your Deco network.

📎 Tip: To know more about how to set up Alexa Integration in Alexa app, refer to https://www.tp-link.com/support/faq/1571/.

🔖 Note: This feature is currently available in English (US), English (UK), German and Japanese.

In the Deco app, tap ☰ to open the menu, tap Friends of Deco > Alexa > TP-Link Router Skill, then follow the app instructions to complete the setup.
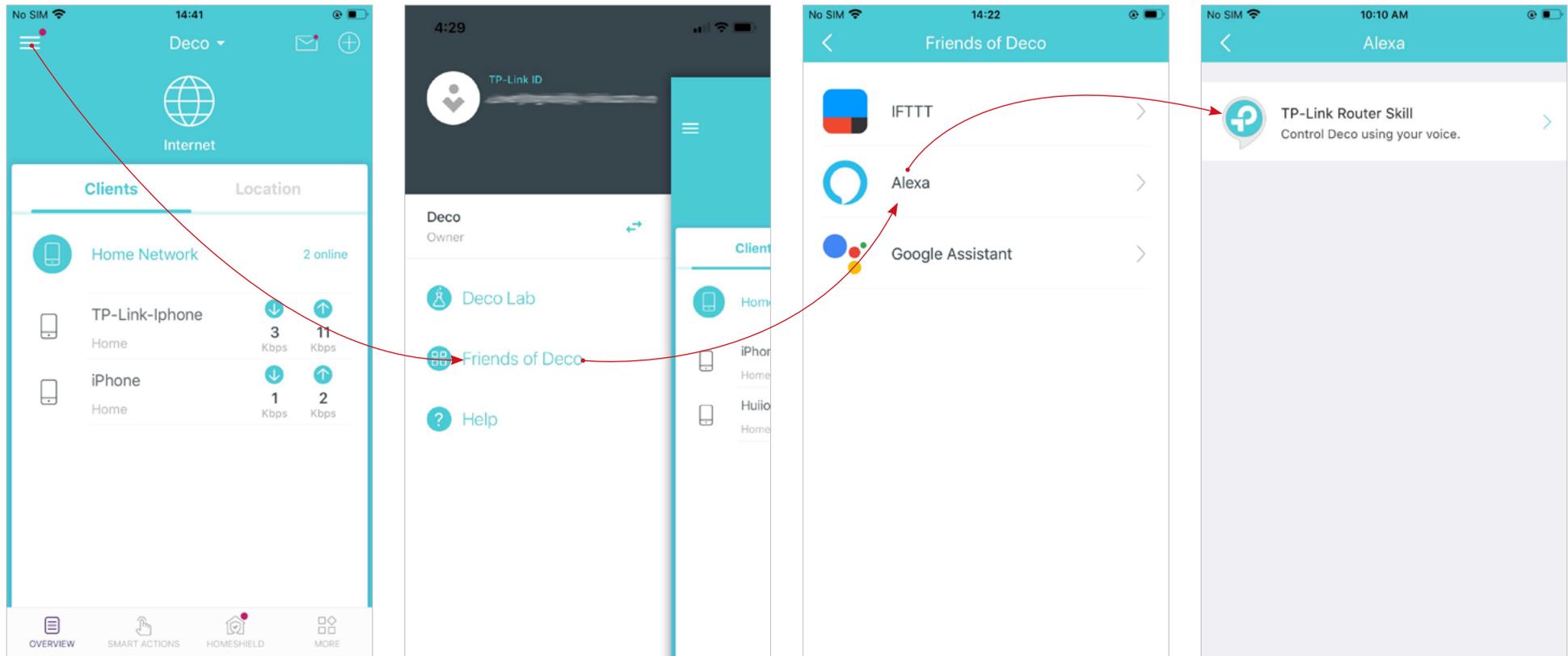
Troubleshooting

Solutions to common problems during setup or use are provided here for reference. Follow the steps and the provided link below to diagnose and solve problems you might experience with your Deco.

If problems still exist, contact us: https://www.tp-link.com/support

Q1. What should I do if I fail to configure the main Deco and get stuck on "We couldn't find Deco"?

Refer to the guide https://www.tp-link.com/support/faq/2239/ or follow the video https://youtu.be/2HYuEYS9XJM

Q2. What should I do if I fail to configure the satellite Deco and get stuck on "We couldn't find another Deco"?

Refer to the guide https://www.tp-link.com/support/faq/1447/ or follow the video https://youtu.be/iVgDzoo16T4

Q3. What should I do if I fail to configure the main Deco and get stuck on "Testing Internet Connection"?

Refer to the video https://youtu.be/OSUrGdWH-i0

Q4. What should I do if my wireless devices cannot connect to Deco?

Refer to the guide https://www.tp-link.com/support/faq/2718/

Q5. What should I do if Deco suddenly lost internet access?

Refer to the guide https://www.tp-link.com/support/faq/1454/

Q6. How can I find a suitable spot for my Deco?

Refer to the guide https://www.tp-link.com//support/faq/1446/

Q7. What can I do if the Deco app isn't working properly?

Refer to the guide https://www.tp-link.com/support/faq/1456/

Authentication

FCC Compliance Information Statement

Product Name: AX3000 Whole Home Mesh Wi-Fi 6 System with PoE

Model Number: Deco X50-PoE

Component Name	Component Model
I.T.E POWER SUPPLY	T120120-2E4

OPERATING FREQUENCY:2412~2462MHz,5180~5350MHz,5500~5825MHz,6125~7095MHz

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: 2022-9-14

FCC Compliance Information Statement

Product Name: I.T.E POWER SUPPLY

Model Number: T120120-2E4

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.

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: 2022-9-14

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)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

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.tp-link.com/en/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.

National restrictions

Attention: This device may only be used indoors in all EU member states and EFTA countries, and Northern Ireland.

	AT	BE	BG	CH	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU	IE
	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	SE	SI	SK	UK(NI)

UKCA Mark

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.tp-link.com/support/ukca/

National restrictions

Attention: This device may only be used indoors in Great Britain.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250- 5350 MHz.

Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des fréquences) sur les bandes 5250- 5350 MHz.

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI 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。

應避免影響附近雷達系統之操作。

安全諮詢及注意事項

- 請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切斷電源。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：	型號（型式）：				
Equipment name:	Type designation (Type)				
AX3000 Whole Home Mesh Wi-Fi 6 System with PoE	Deco X50-PoE				
	限用物質及其化學符號				
	Restricted substances and its chemical symbols				
單元 Unit	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	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○
其他及其配件	—	○	○	○	○	○

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

Safety Information

• Keep the device away from water, fire, humidity or hot environments.

• Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.

• Do not use damaged charger or USB cable to charge the device.

• Do not use any other chargers than those recommended.

• Do not use the device where wireless devices are not allowed.

• Adapter shall be installed near the equipment and shall be easily accessible.

• This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

- Operating Temperature: 0℃~40℃ (32℉~104℉)

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
∿	Alternating current
⎓	DC voltage
⚠	Caution
📖ⅈ	Operator's manual
⌂	Indoor use only
▣	Class II equipment
Ⓥ	Energy efficiency Marking
◇─ⓒ─⊕	Polarity of d.c. power connector
🗑	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.