

# IoT Device Privacy: A Comprehensive Review of Physical Components and Configuration Settings

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# Privacy Settings of IoT with Physical Components

The proliferation of Internet of Things (IoT) devices has significantly transformed the landscape of smart home technology, offering unprecedented levels of convenience, automation, and connectivity. This report aims to provide a comprehensive analysis of 100 IoT devices, focusing on their availability in the University Smart Home Lab and the presence of physical components. By examining these aspects, the report seeks to offer valuable insights into the usability, control interfaces, and data management practices of these devices, which are crucial factors for both end-users and developers.

The report is structured into two main sections. The first section presents a detailed table listing all 100 IoT devices, sorted based on their availability in the University Smart Home Lab and whether they include physical components. The second section focuses on the subset of 30 devices that have physical components such as buttons, knobs, and sliders. This section includes a table categorising these devices by their physical components and their apps' privacy settings, including sharing, usage, and retention configurations. Each device entry is supplemented with a picture highlighting its physical components and a roadmap guiding users on how to access and configure the app's privacy settings. This structured approach ensures a clear and organized presentation of the data, facilitating easy reference and analysis.

## From Our Analysis, We Found That:

-  The most common physical components on IoT devices are: **Buttons, Knobs, and Sliders.**
-  Most apps provide options to configure usage settings, including **Service Improvement** and **Targeted Advertising.**
-  Some apps offer additional privacy options for **Data Sharing** and **Data Retention.**
-  Most apps display their legal and terms of use as a website privacy policy.

**Table 1: Overview of 100 IoT Devices Sorted by Availability in University Smart Home Lab and Physical Components.**

Category	IoT Device	Smart Home Lab	Tangible Component	
Smart Home	Philips Hue Dimmer Switch	✓	✓	1
	Roborock Vacuum Cleaner	✓	✓	2
	Siemens Coffee Machine	✓	✓	3
	Lumiman Bulb	✓		4
	Philips Hue Bridge	✓		5
	Meross Plug	✓	✓	6
	LaMetric Time	✓	✓	7
	Smarter Coffee Machine	✓	✓	8
	TPLink Plug	✓	✓	9
	Smarter FridgeCam			10
	iRobot Robot Vacuum	✓	✓	11
	LIFX Smart Switch		✓	12
	BOSCH Built-in Oven		✓	13
	Aqara Roller Shade Driver		✓	14
	GHome Bedside Lamp		✓	15
	SAMSUNG Microwave		✓	16
	Philips Smart Bulbs	✓		17
	Aqara Magic Cube	✓		18
	Lumiman Bulb	✓		19
	Philips Hue Lightstrip Plus	✓		20
	Nanoleaf Light Panels			21
	Samsung Fridge			22
	Fibaro Swipe	✓		23
	Meater Plus			24
	Drop Kitchen Scale			25

Category	IoT Device	Smart Home Lab	Tangible Component	
Health	Oura Ring			26
	iHealth Nexus Scale			27
	QardioArm BPM			28
	Dexcom Glucose Monitor			29
	WITHINGS BPM	✓	✓	30
	Withings Scale	✓		31
	Withings Sleep	✓		32
	Qardio Core			33
	Owlet Smart Sock			34
	Baby Breathing Monitor			35
	Eargo Hearing Aids			36
	Nanit Breathing Band			37
	Spire Stone			38
	OMsignal Biometric Smartwear			39
	UP 24 Smart Wristband			40
	MUSE Brain Headband			41
	Luna Mattress Cover			42
	Cuifati Health Ring			43
	Sleepnumber bed			44
	INSMART Scale			45
Entertainment	Amazon Echo Dot	✓	✓	46
	Amazon Echo Studio	✓	✓	47
	Amazon Echo Show	✓	✓	48
	Google Home	✓	✓	49
	BenQ Projector	✓	✓	50

Category	IoT Device	Smart Home Lab	Tangible Component	
	Viper Connected Car			51
	Estimote Smart Beacons			52
	AEEZO Picture Frame			53
	Dribbleup Smart Basketball			54
Environment	Xiaomi Smart Air Purifier	✓	✓	55
	Nest Protect	✓		56
	Netatmo Weather Station	✓		57
	BOSCH TwinGuard	✓		58
	Orbit Sprinkler Controller			59
	Aqara Water Sensor	✓		60
	Rainpoint Water Timer			61
	BOSCH Room Thermostat		✓	62
	Meross Oil Diffuser			63
	Sensibo Elements			64
	Mill Portable Heater		✓	65
	Netatmo Carbon Monoxide Alarm	✓	✓	66
	D-Link Smoke Detector			67
	Fibaro Flood Sensor			68
	Grohe Sense			69
	Sensibo Sky AC			70
	Bird Buddy Feeder			71
	Tempest Weather System			72
	Orbit Irrigation Timer			73
	Awair Element Air			74
	Aqara Temperature and Humidity Sensor	✓		75

Category	IoT Device	Smart Home Lab	Tangible Component	
	Eve Water Guard	✓		76
	Netatmo Anemometer	✓		77
	Netatmo Rain Guage	✓		78
	Birdie Air Monitor			79
Security	Nuki DoorLock	✓	✓	80
	Reolink Camera	✓		81
	Eufy Entry Sensor			82
	Arlo Outdoor Camera			83
	Wyze Cam			84
	SimpliSafe Glassbreak			85
	Scout Door Panel			86
	Logitech Circle Camera			87
	Yale Butoon	✓	✓	88
	Tapo Home Camera		✓	89
	Furbo Dog Camera			90
	Blink Mini Camera		✓	91
	Reolink Video Doorbell		✓	92
	Blink Video Doorbell		✓	93
	Arlo Floodlight Camera			94
	Xiaomi Motion Sensor	✓		95
	Nuki Lock Opener		✓	96
	Fibaro Door Sensor	✓		97
	Xiaomi Door and Window Sensor	✓		98
	Fibaro Motion Sensor			99
	Samsung Multipurpose Sensor			100

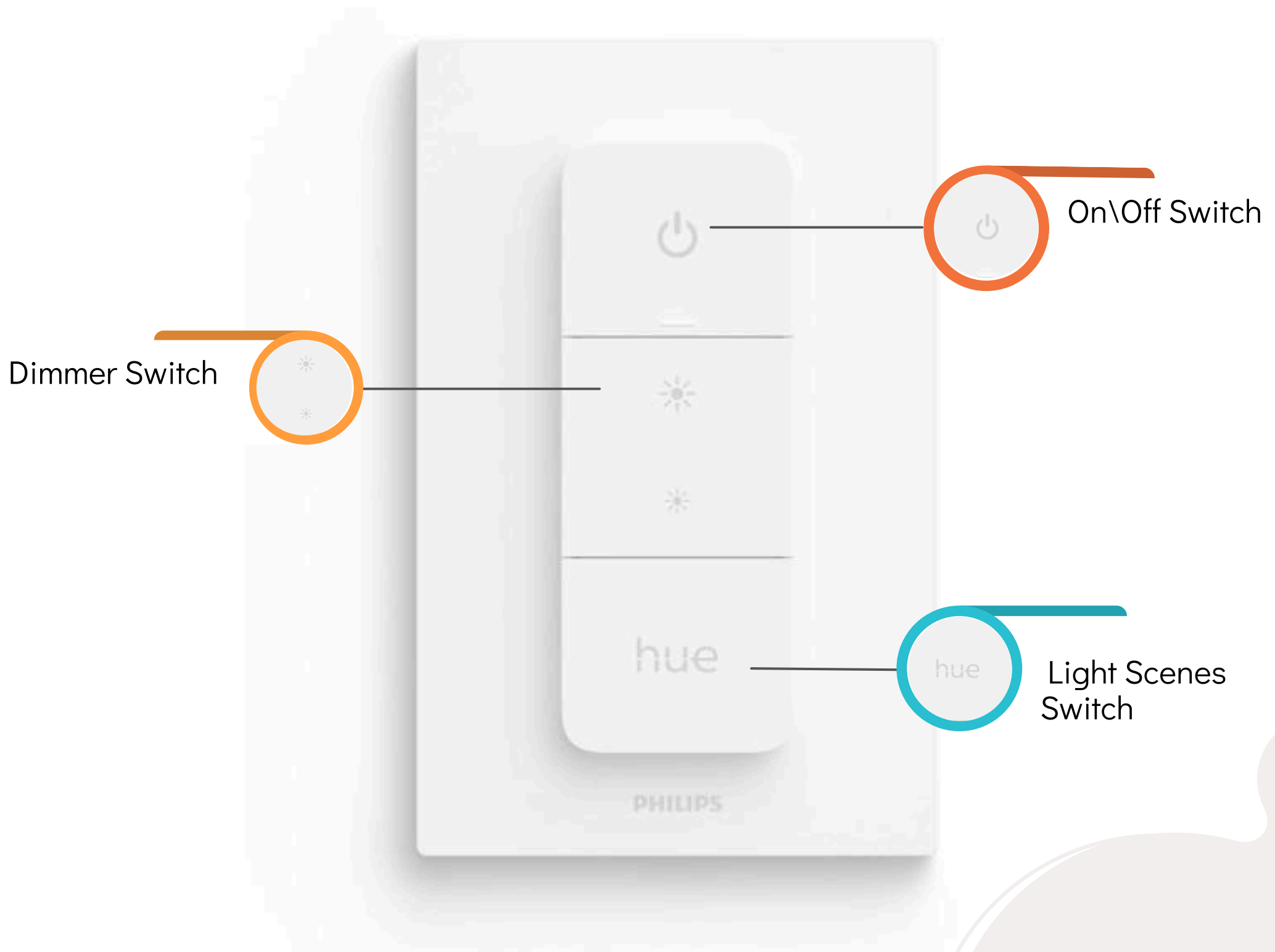
**Table 2: IoT Devices with Physical Components and Their App Privacy Settings**

IoT Device	Tangible Component			App Privacy Setting			App Privacy Setting		
	Button	Knob	Keypad	Retention	Usage	Sharing	Action Button	Radio Button	Toggle
Philips Hue Dimmer Switch	✓				✓		✓		
RoboRock Vacuum Cleaner	✓				✓				✓
Siemens Coffee Machine	✓				✓				✓
WITHINGS BPM	✓				✓	✓	✓		✓
Xiaomi Smart Air Purifier	✓				✓		✓		✓
Mill Portable Heater	✓	✓			✓		✓		✓
Smarter Coffee Machine	✓								
iRobot Robot Vacuum	✓				✓				✓
TP-Link Smart Plug	✓				✓	✓	✓		✓
Meross Smart Plug	✓				✓	✓	✓		✓
LIFX Smart Switch	✓				✓			✓	
Reolink Video Doorbell	✓				✓				✓
Nuki Lock Opener	✓								
Blink Video Doorbell	✓				✓	✓			✓
Tapo Home Camera	✓				✓	✓	✓		✓

IoT Device	Tangible Component			App Privacy Setting			App Privacy Setting		
	Button	Knob	Slider	Retention	Usage	Sharing	Action Button	Radio Button	Toggle
Meross Oil Diffuser	✓				✓	✓	✓		✓
BOSCH Built-in Oven	✓				✓	✓	✓		✓
Echo Dot Smart Speaker	✓			✓	✓	✓	✓	✓	✓
Echo Studio Smart Speaker	✓			✓	✓	✓	✓	✓	✓
Echo Show Smart Speaker	✓		✓	✓	✓	✓	✓	✓	✓
Aqara Roller Shade Driver	✓				✓	✓	✓		✓
LaMetric Time Smart Clock	✓				✓				✓
Yale Butoon	✓				✓		✓		
Google Home Speaker	✓				✓				✓
GHome Bedside Lamp	✓					✓	✓		
Nuki Smart Lock	✓								
BenQ Projector	✓								
BOSCH Room Thermostat	✓	✓			✓	✓	✓		✓
SAMSUNG Microwave	✓	✓				✓	✓		
Netatmo Carbon Monoxide Alarm	✓				✓	✓	✓		✓



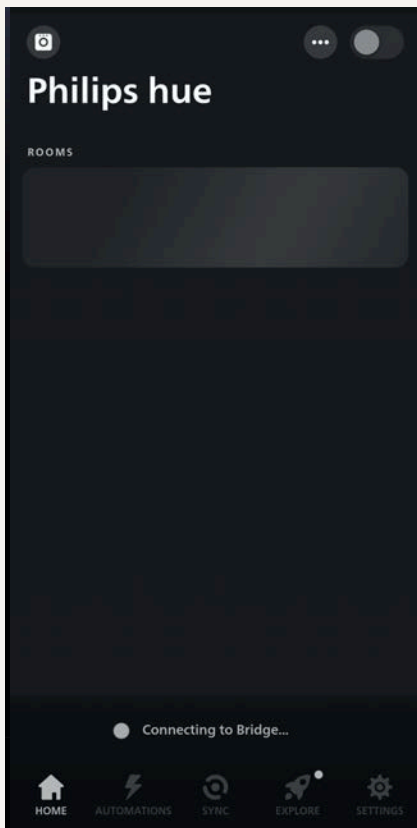
# PHILIPS Hue Dimmer Switch



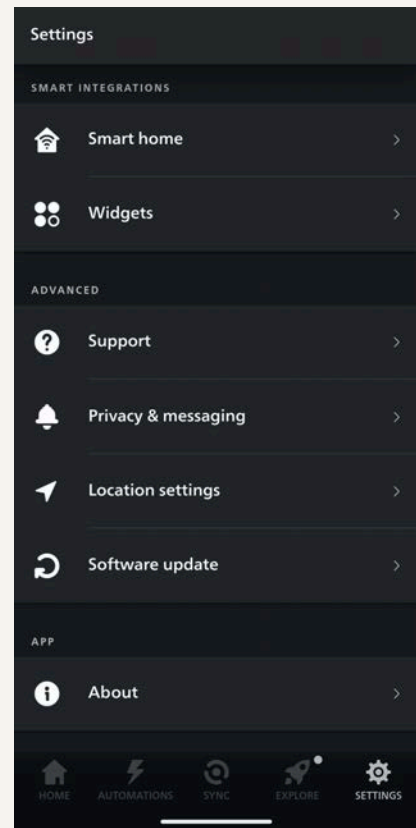
# PHILIPS HUE DIMMER SWITCH

## Hue Mobile App Privacy Settings

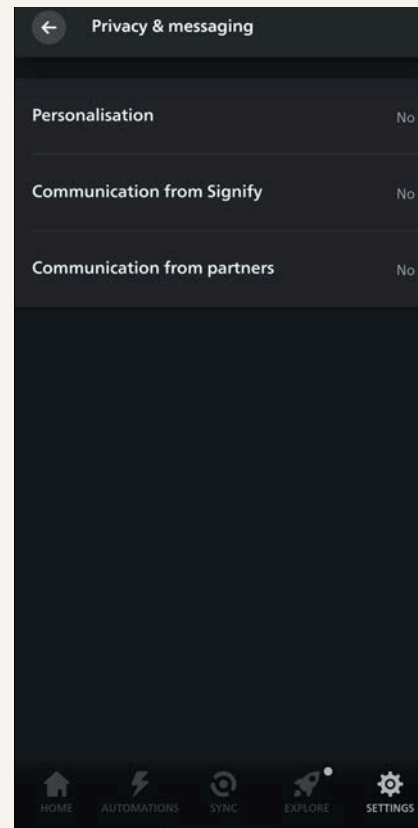
### Home Screen



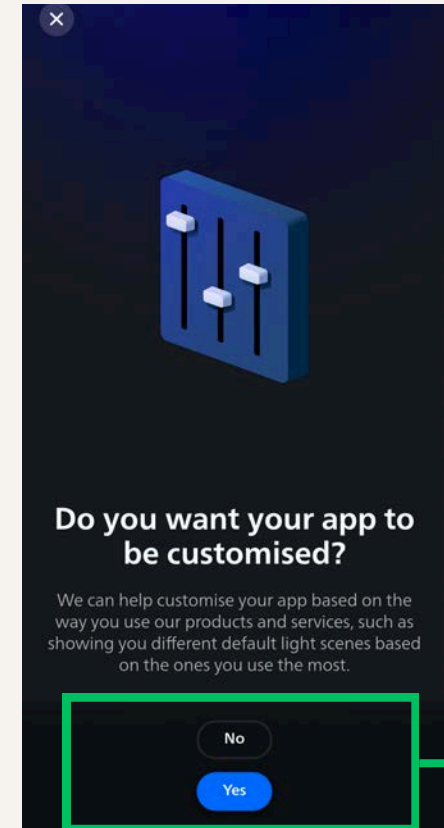
### Settings (Scroll down)



### Privacy

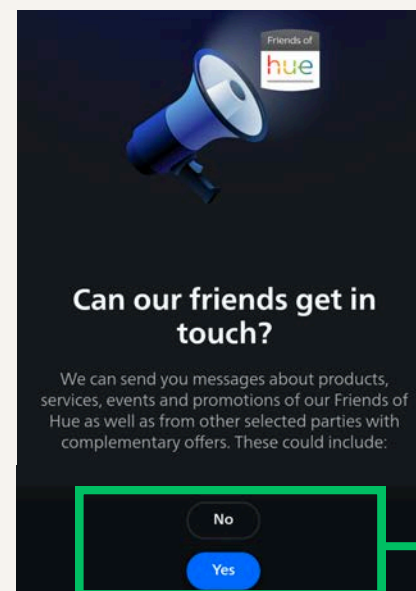


### Privacy - Personalisation



Action button  
to control  
usage

### Privacy - Communication

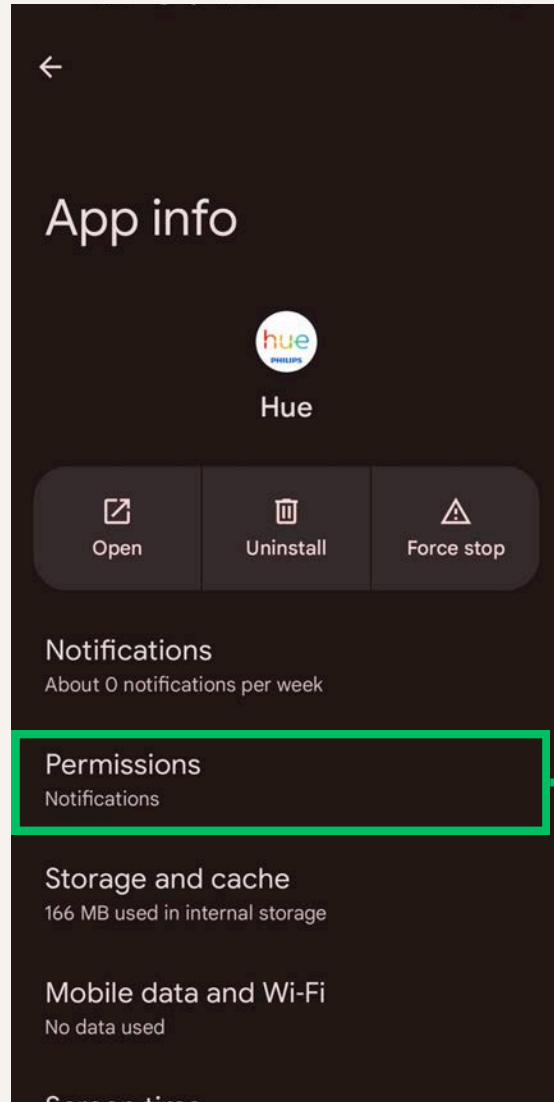


Action button  
to control Ads

- Direct privacy settings configurations (Usage).
- Configuration options are available to control Ads.
- Privacy provides options and displays information.

# PHILIPS HUE DIMMER SWITCH

## Hue Mobile App Permissions



**Main app  
permissions are  
Notifications.**



**Philips Hue mobile app:** a line of smart lighting products. Philips Hue offers a range of smart bulbs, light strips, and lighting accessories that can be controlled remotely via smartphone apps or integrated with smart home platforms like Google Home or Amazon Alexa.

# Roborock Robot Vacuum

On\Off Switch



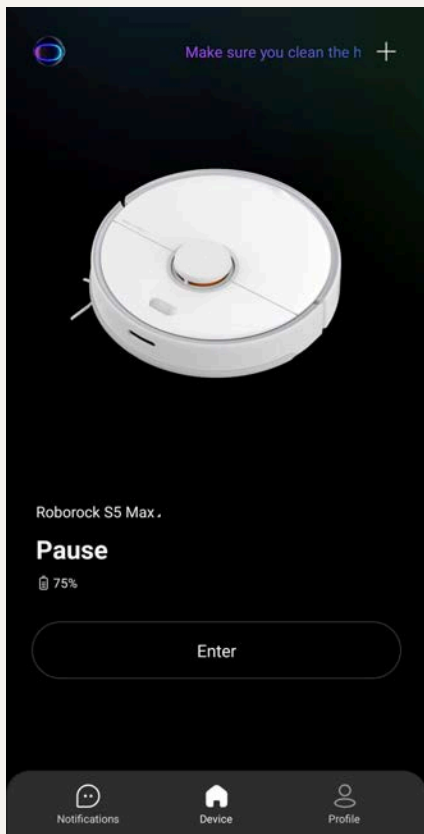
Dock Switch



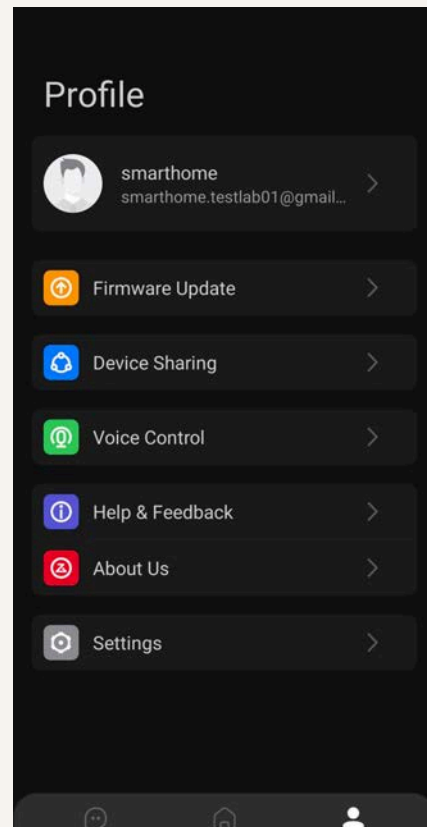
# ROBOROCK ROBOT VACUUM

## Roborock Mobile App Privacy Settings

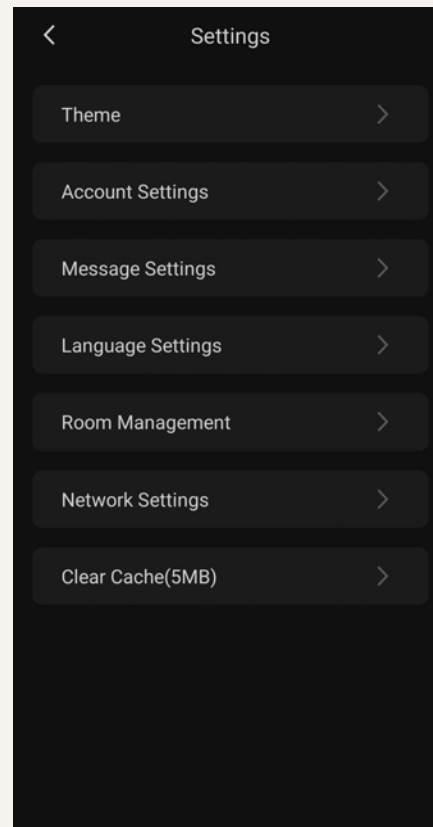
### Home Screen



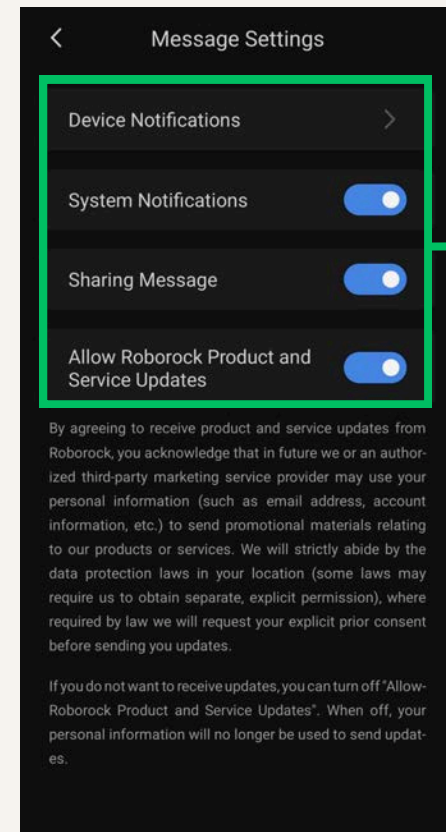
### Profile



### Settings

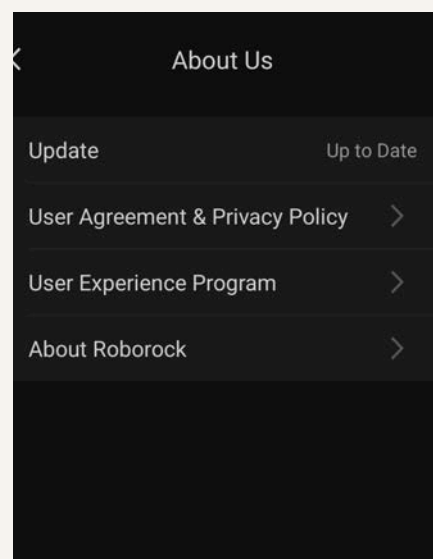


### Message Settings

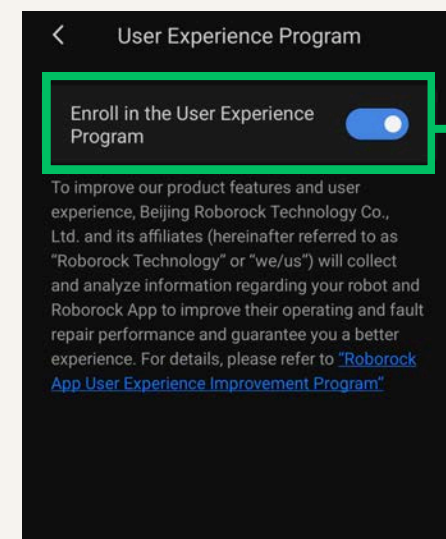


Toggles to control Ads

### Settings - About us



### User Experience



Toggles to control usage

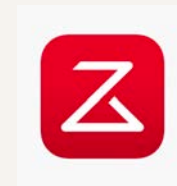
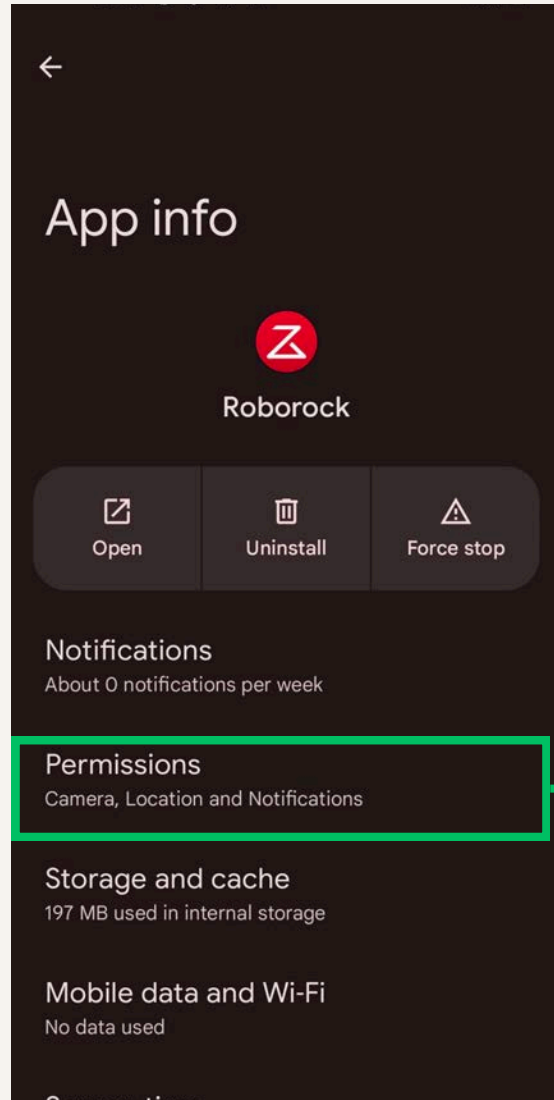
● Privacy settings configurations (Usage).

● Configuration options are available to control Ads.

● Privacy displays information .

# ROBOROCK ROBOT VACUUM

## Roborock Mobile App Permissions



**Home Connect mobile app:** Roborock specialises in robotic vacuum cleaners and mops. Their products often feature advanced navigation systems, mapping capabilities, and integration with smart home platforms.

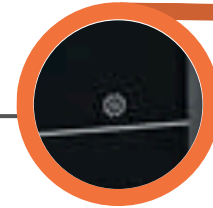
**Main app permissions are Camera, Location, and Notifications.**

# Siemens Coffee Machine

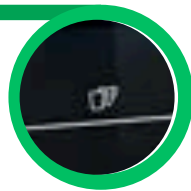
On\Off Switch



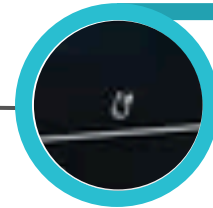
Settings Control



Dispenser Control



Service  
Programmes



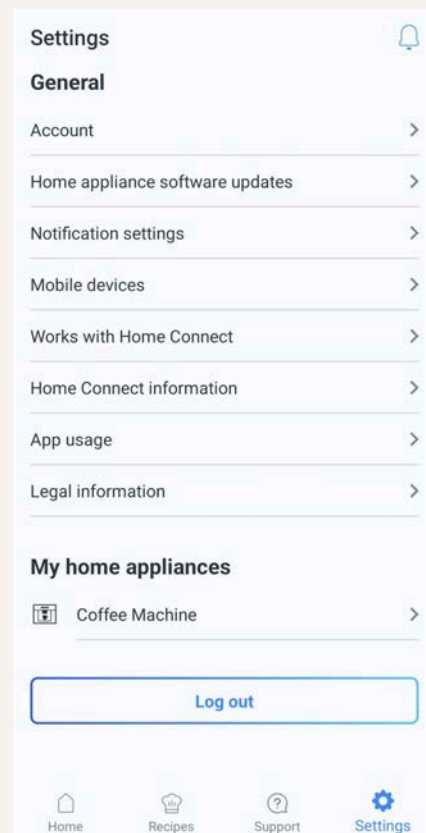
# SIEMENS COFFEE MACHINE

## Home Connect Mobile App Privacy Settings

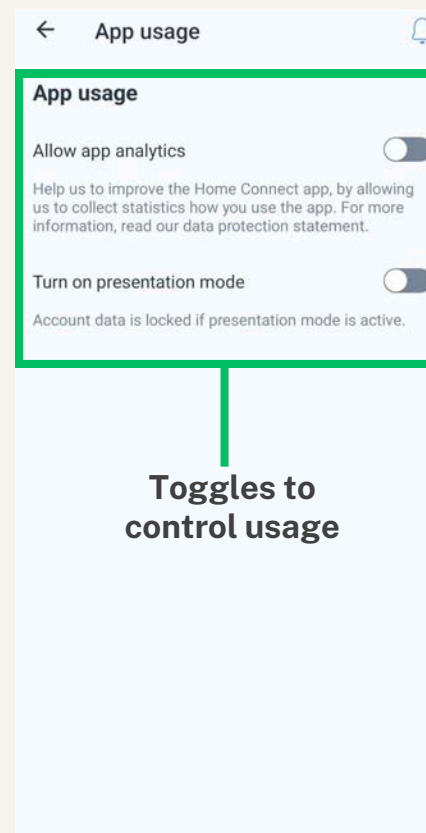
### Home Screen



### Settings

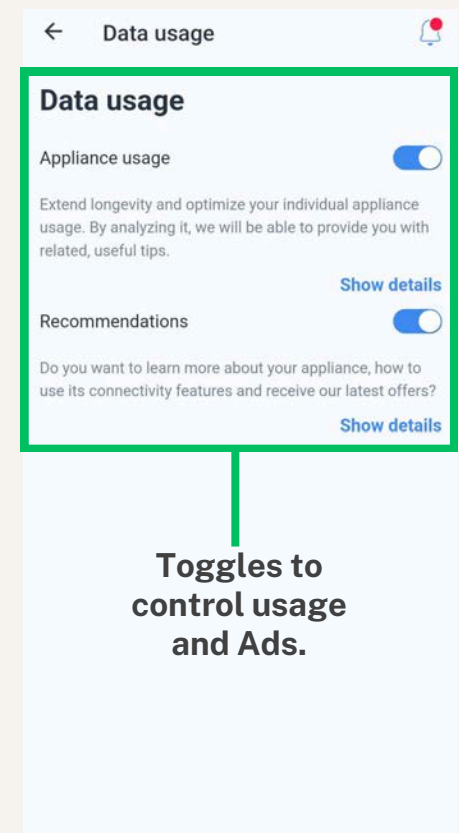


### App Usage



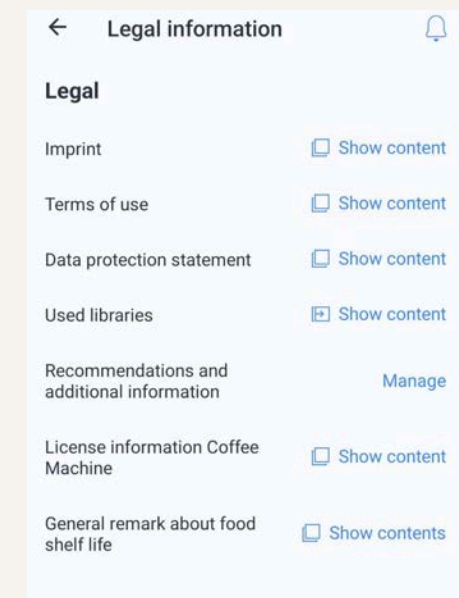
Toggles to control usage

### Consent Management



Toggles to control usage and Ads.

### Legal



● Direct privacy settings configurations (Usage).

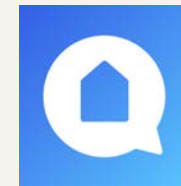
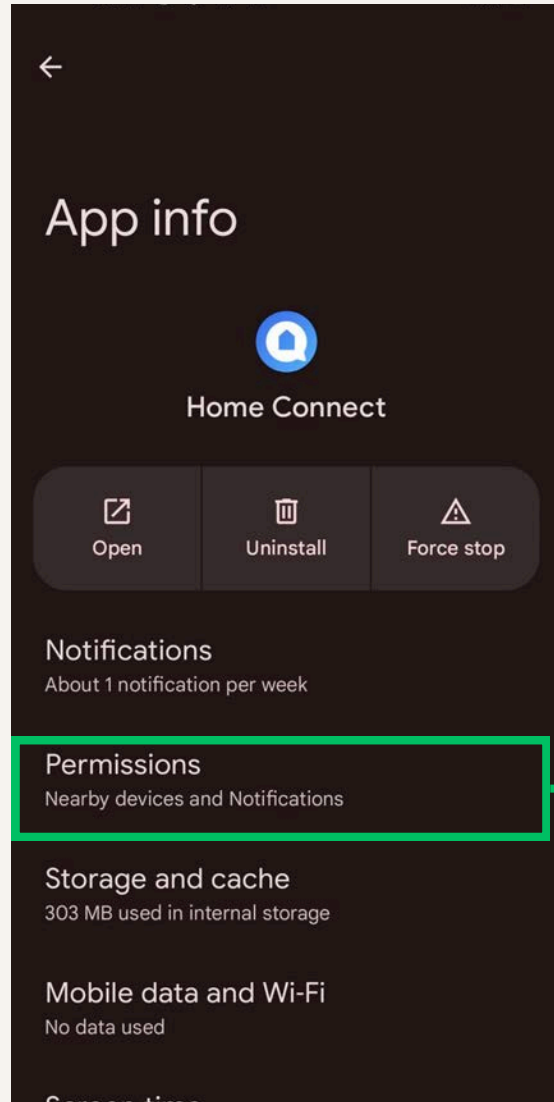
● Configuration options are available to control Ads.

● Legal only displays information .



# SIEMENS COFFEE MACHINE

## Home Connect Mobile App Permissions



**Home Connect mobile app:** The Home Connect app is a comprehensive platform designed to manage and control a variety of smart home appliances. It acts as a central hub for controlling and monitoring various smart home appliances.

**Main app permissions are Notifications.**

# WITHINGS BPM Connect



Blood Pressure  
Measurement Button



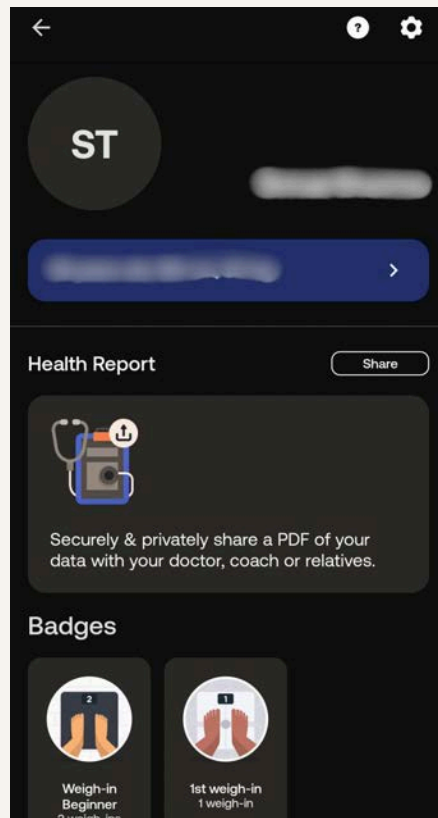
# WITHINGS BPM CONNECT

## Withings Mobile App Privacy Settings

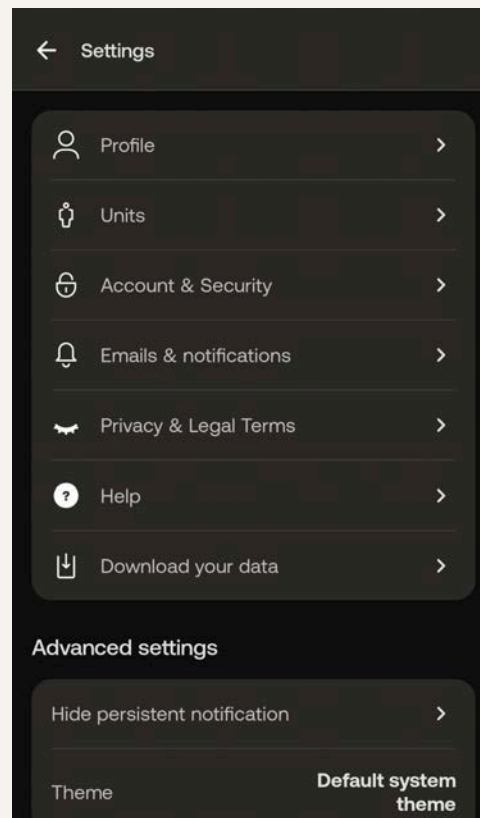
### Home Screen



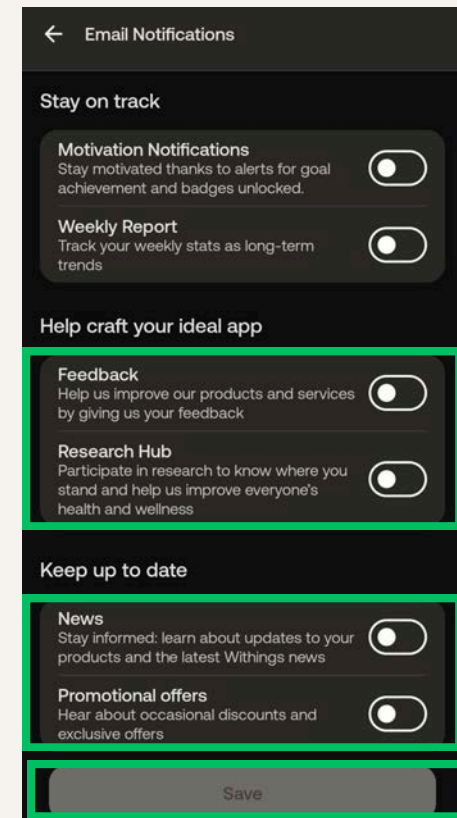
### Profile



### Settings



### Notifications

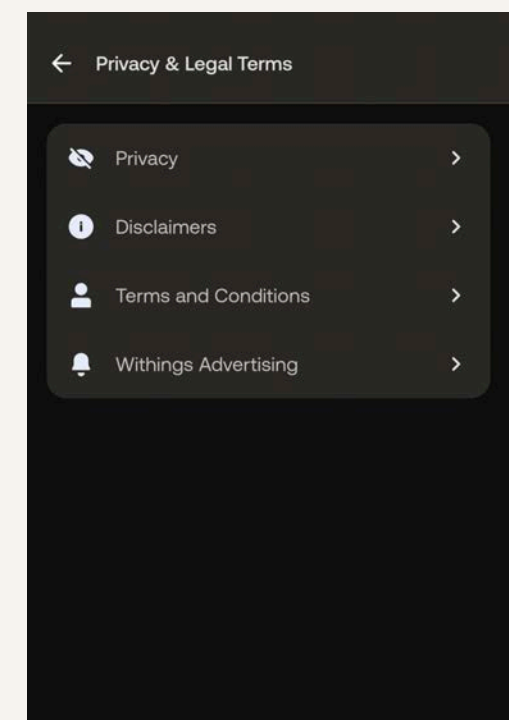


Toggles to control usage.

Toggles to control Ads.

Action button sharing

### Privacy & Legal



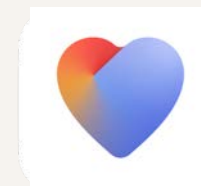
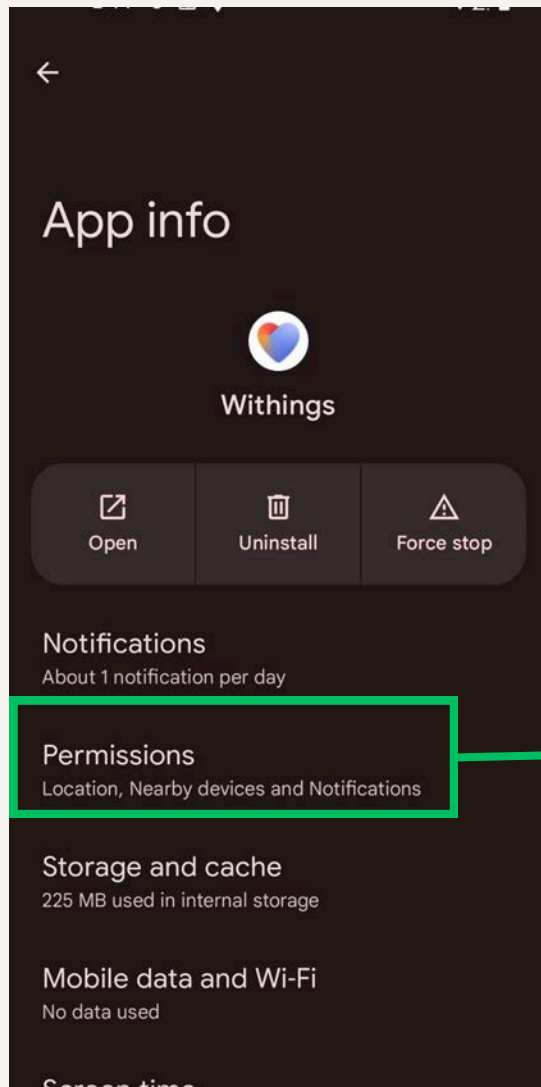
● Privacy settings configurations (Usage).

● Configuration options are available to control Ads.

● Privacy and Legal only displays information .

# WITHINGS BPM CONNECT

## Withings Mobile App Permissions



**Withings mobile app:** The Withings app is designed to help users track and manage their health and fitness data collected from Withings devices, including scales, blood pressure monitors, and sleep trackers.

Main app permissions are **Location** and **Notifications**.

# Xiaomi Air Purifier

On\Off Switch



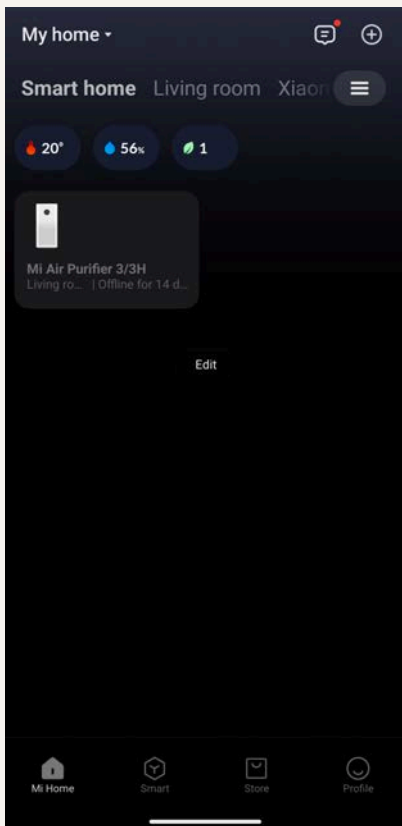
Fan Control



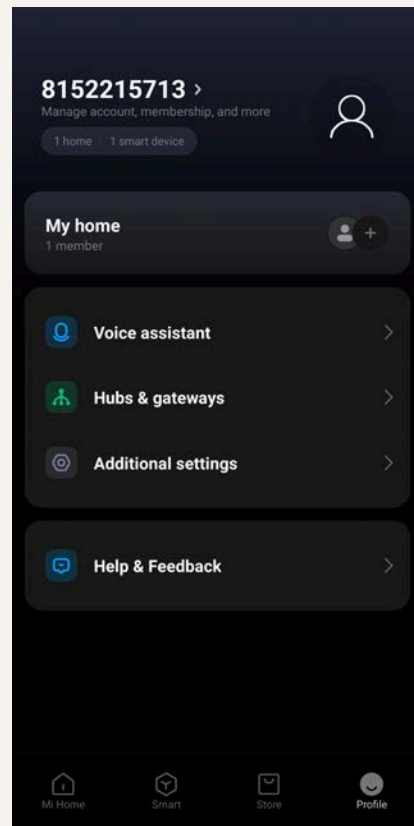
# XIAOMI SMART AIR PURIFIER

## Mi Home Mobile App Privacy Settings

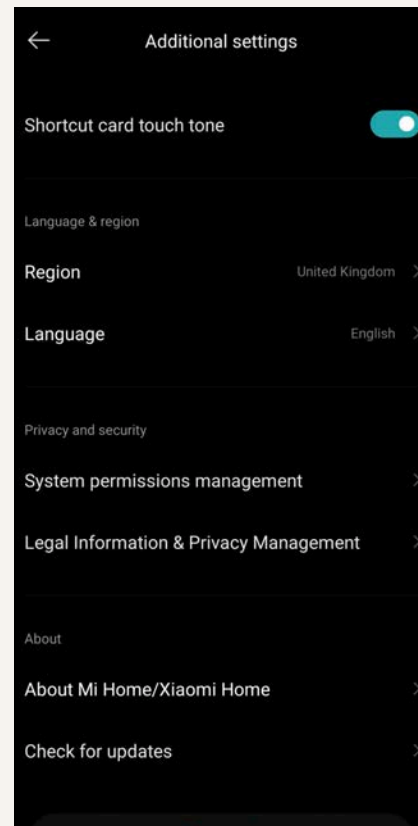
### Home Screen



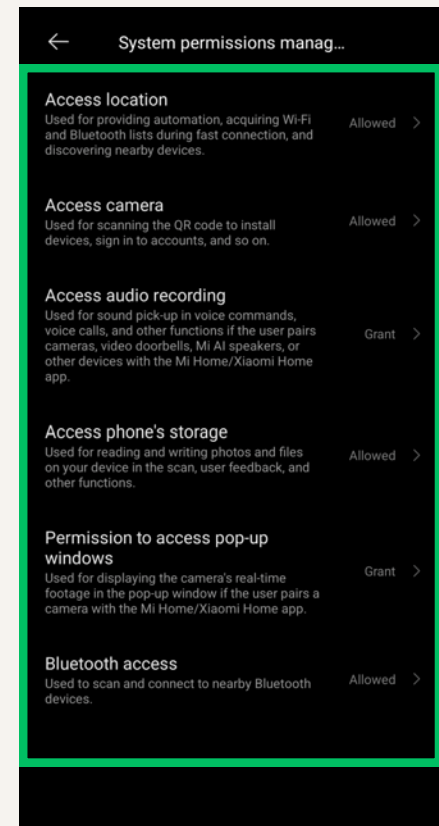
### Profile



### Additional Settings (Scroll down)



### Privacy- System Permissions

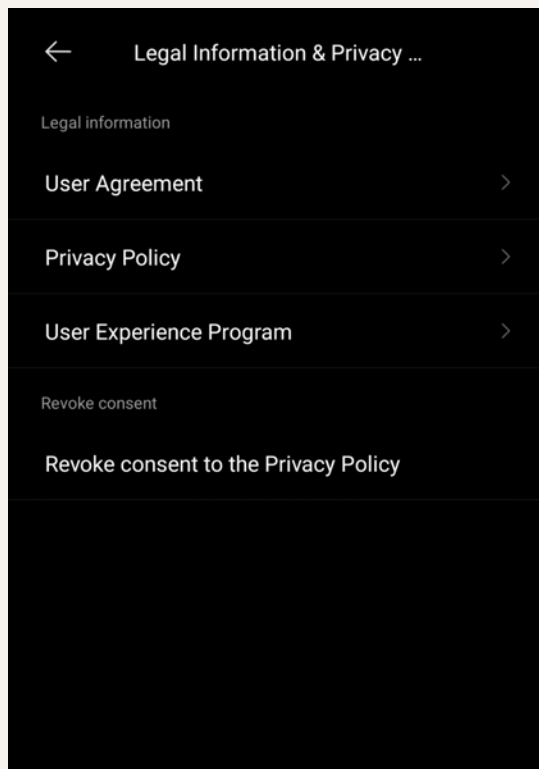


Text to control  
system  
permissions

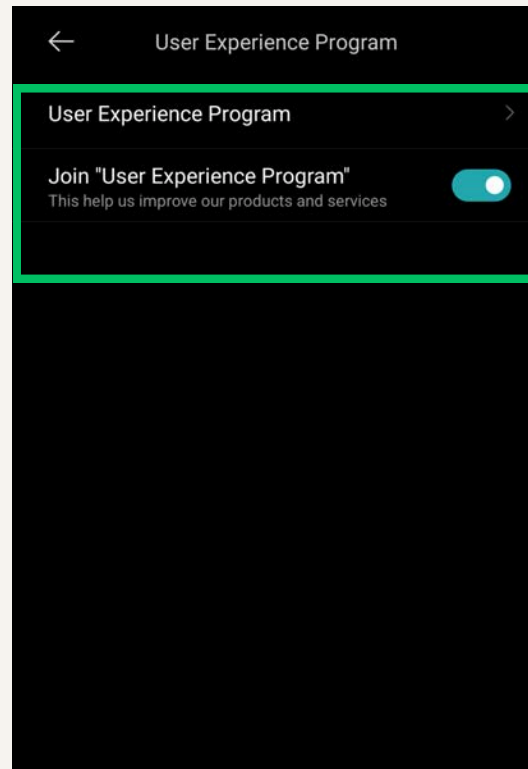
# XIAOMI SMART AIR PURIFIER

## Mi Home Mobile App Privacy Settings

### Legal and Privacy

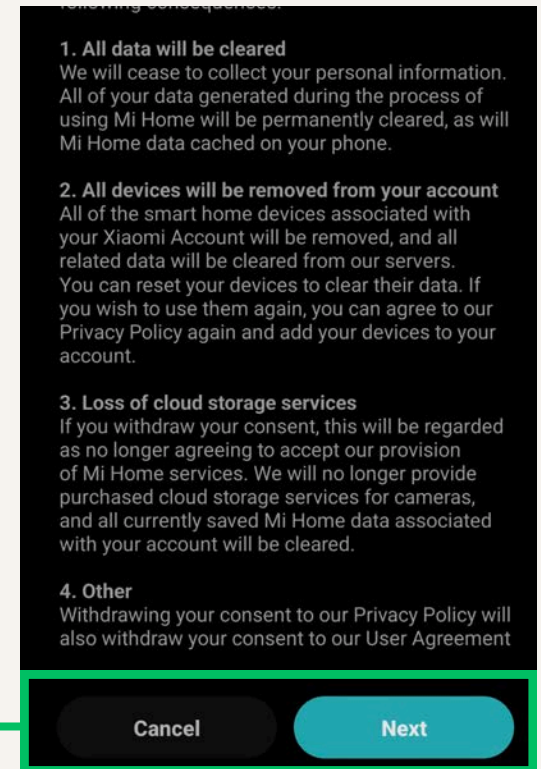


### Legal - User experience



Toggle to control usage

### Revoke Consent

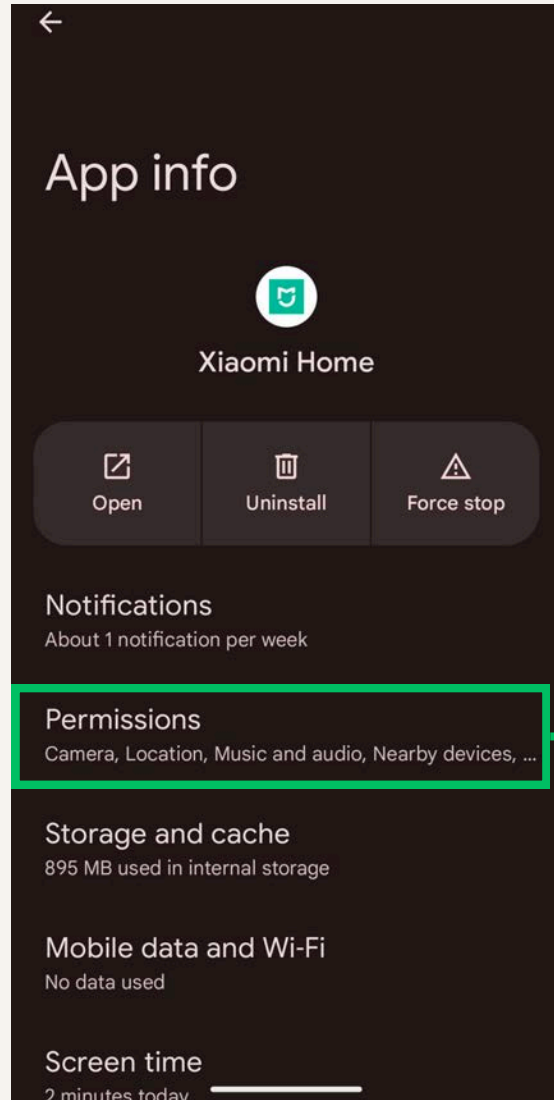


Action button to delete data

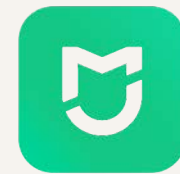
● Direct privacy settings configurations (Usage).

● Privacy provides options and displays information .

# XIAOMI SMART AIR PURIFIER Mi Home Mobile App Permissions



Main app permissions  
are **Location, music  
and audio, and  
Notifications**



**Mi Home mobile app:** Mi – Home is a smart home ecosystem developed by Xiaomi. It includes various smart home devices such as smart plugs, sensors, cameras, and lighting products. These devices can be controlled via the Mi – Home app and integrated with other Xiaomi smart home products.



# mill Portable Heater



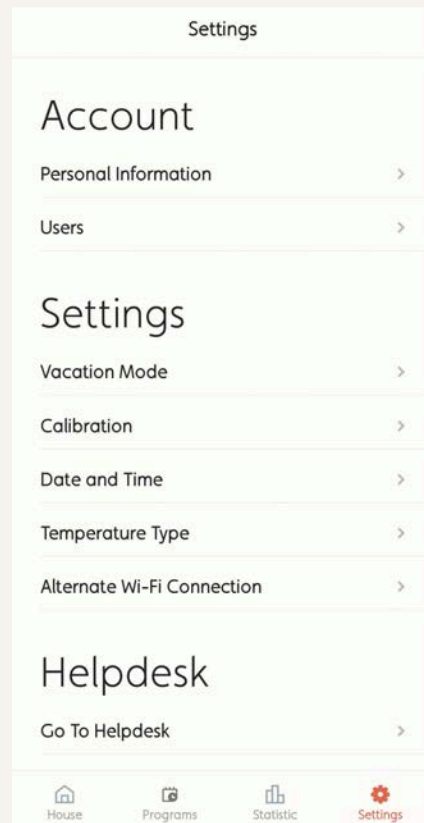
# MILL PORTABLE HEATER

## Mill Norway Mobile App Privacy Settings

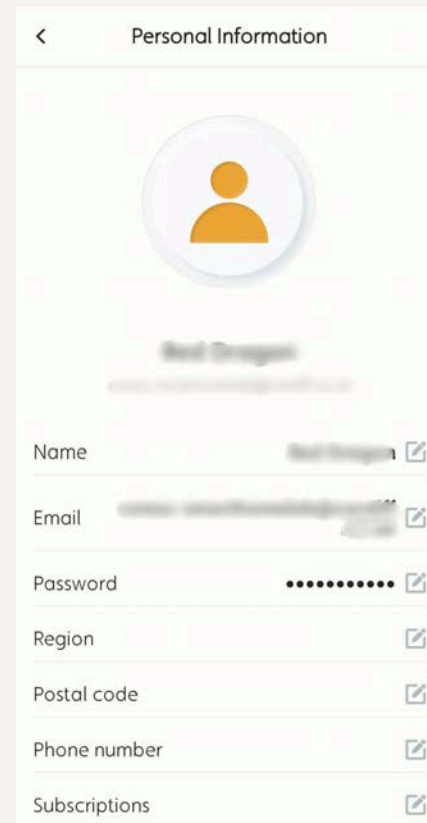
Home Screen



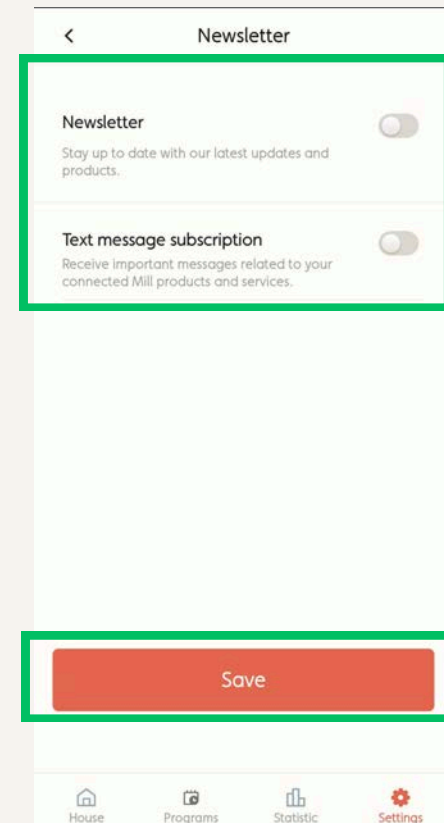
Settings



Personal Information





Subscriptions



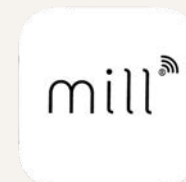
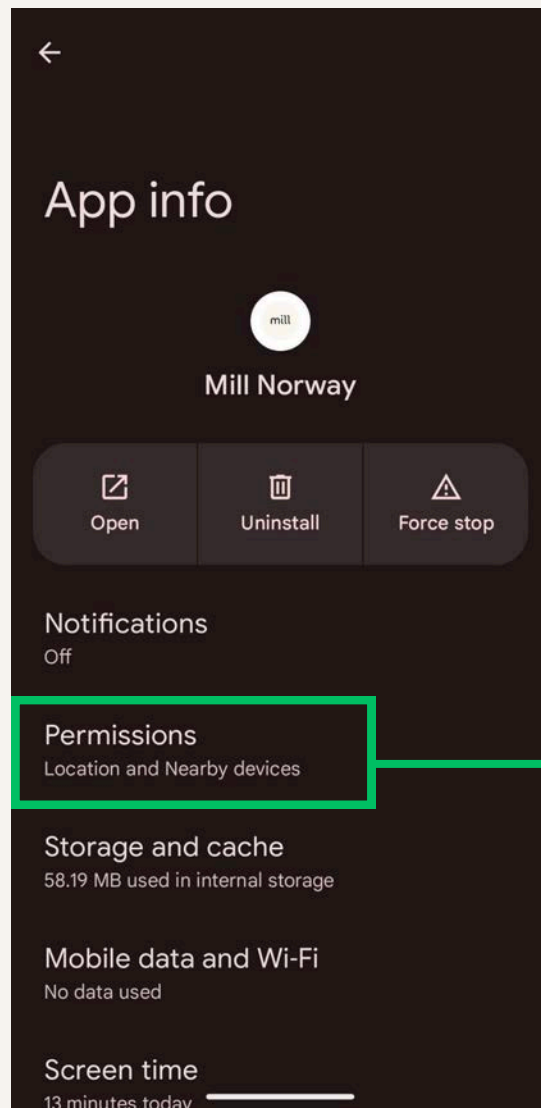
Toggles to control Ads

Action button confirmation

-  No direct privacy settings configurations
-  Some configuration options are available to control Ads.

# MILL PORTABLE HEATER

## Mill Norway Mobile App Permissions



**Mill Norway mobile app:** Mill, is a Norwegian company that specializes in designing and manufacturing innovative heating solutions, including smart heaters and thermostats.

**Main app permissions is Location**

# Smarter Coffee Machine

On\Off Switch



Cups Control



Filter Control



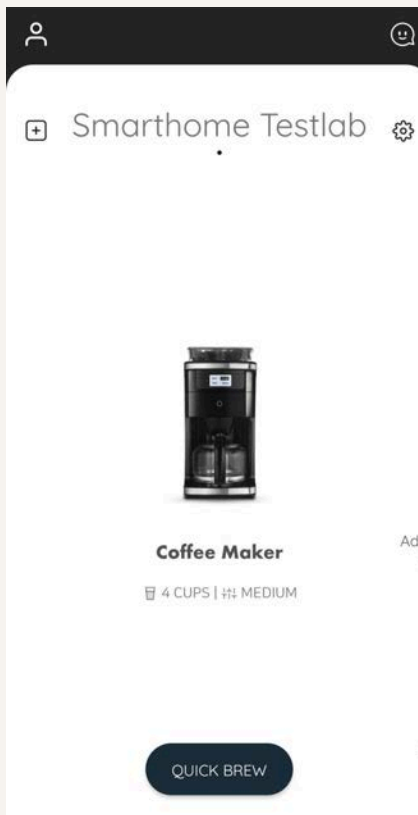
Dispenser  
Control



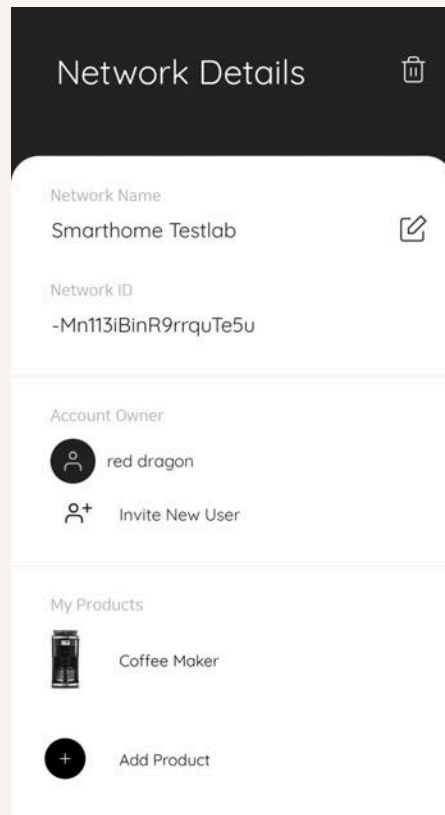
# SMARTER COFFEE MACHINE

## Smarter Mobile App Privacy Settings

Home Screen



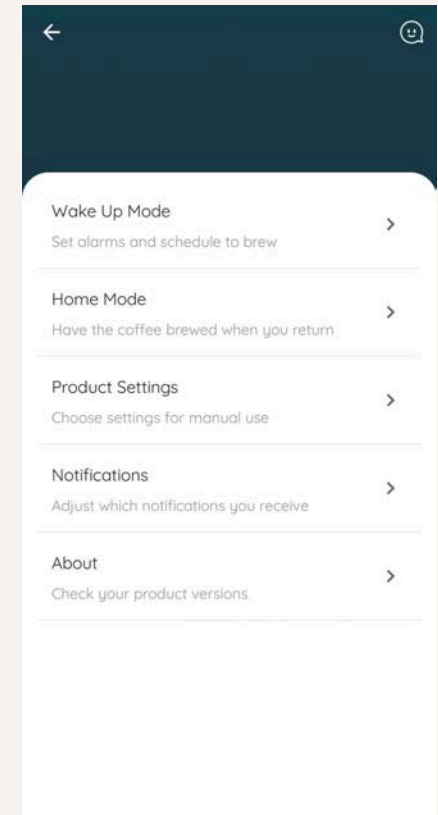
Settings




Products



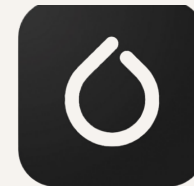
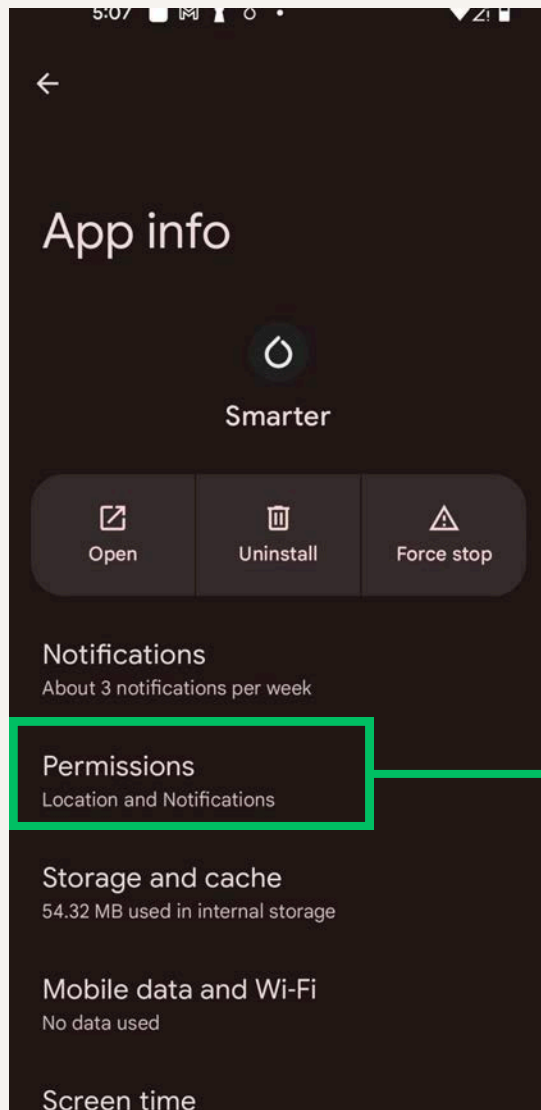
Options



 No direct privacy settings configurations

# SMARTER COFFEE MACHINE

## Smarter Mobile App Permissions



**Smarter mobile app:** Smarter Applications Ltd., is a company that produces smart kitchen appliances, including the Smarter Coffee machine and iKettle, which can be controlled via smartphone apps.

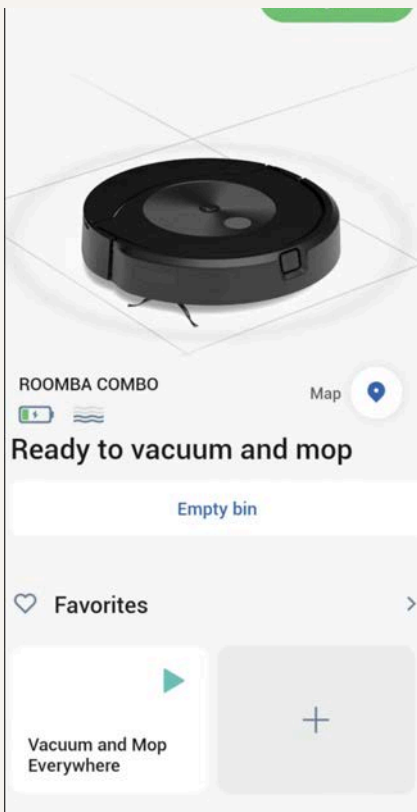
**Main app permissions are Location and Notifications**

# iRobot Robot Vacuum

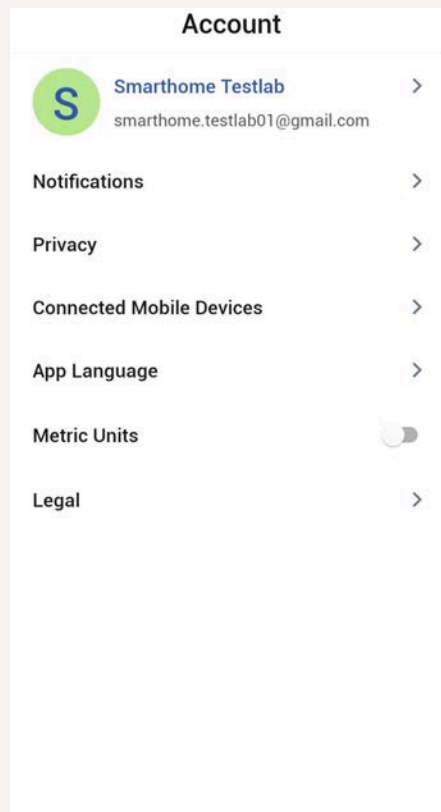


# IROBOT ROBOT VACUUM iRobot Mobile App Privacy Settings

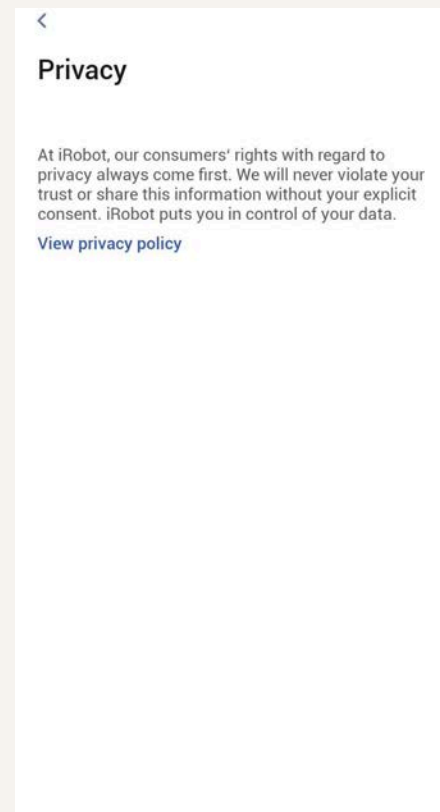
## Home Screen



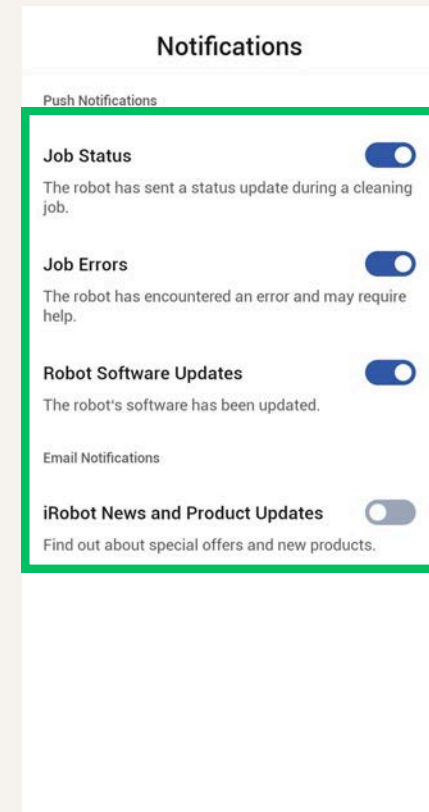
## Profile



## Privacy

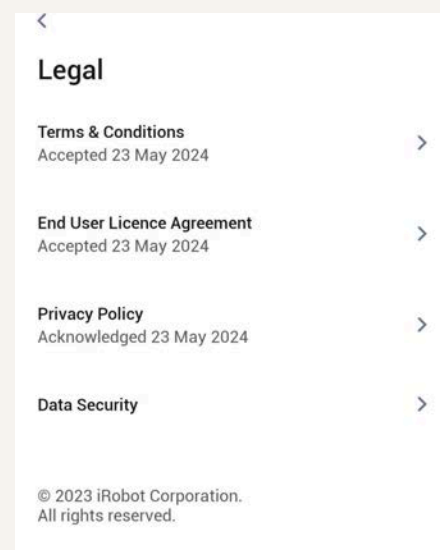


## Notifications



Toggles to control Ads

## Legal



**No direct privacy settings configurations**

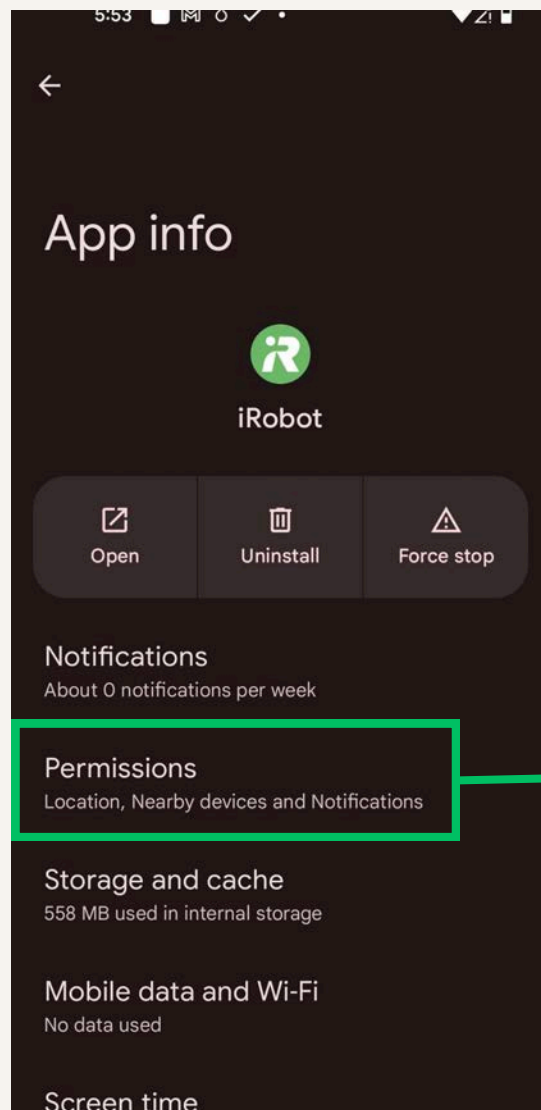
**Some configuration options are available to control Ads.**

**Privacy and Legal displays information only without options.**



# IROBOT ROBOT VACUUM

## iRobot Mobile App Permissions



**iRobot mobile app:** Roomba line of robotic vacuum cleaners, iRobot is a pioneer in home automation and robotics, providing solutions for floor cleaning and maintenance.

**Main app permissions are Location and Notifications**

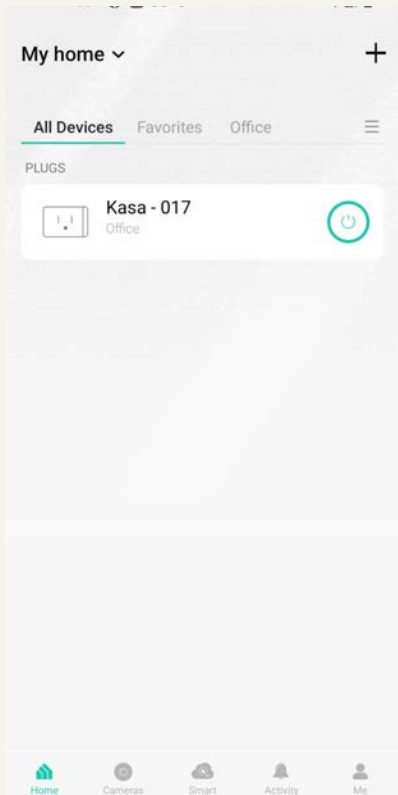
# TP-Link Smart Plug



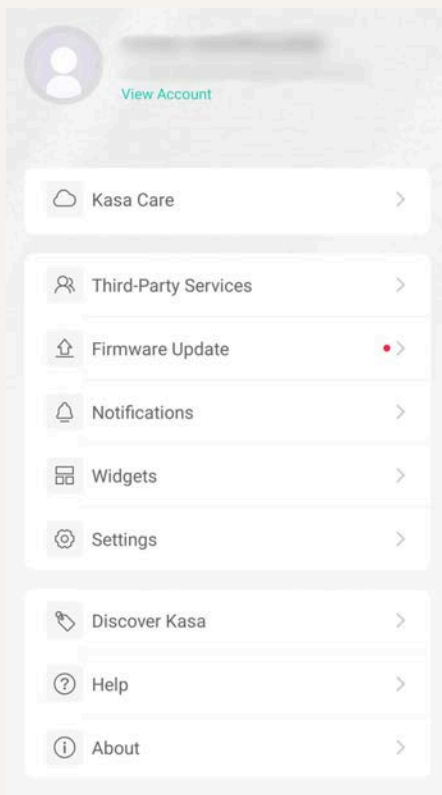
On\Off  
Switch

# TP-LINK SMART PLUG Kasa Mobile App Privacy Settings

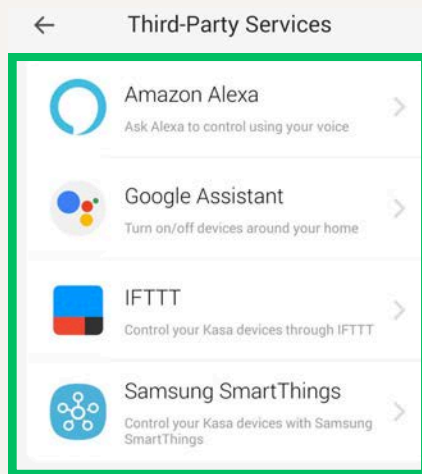
Home Screen



Profile

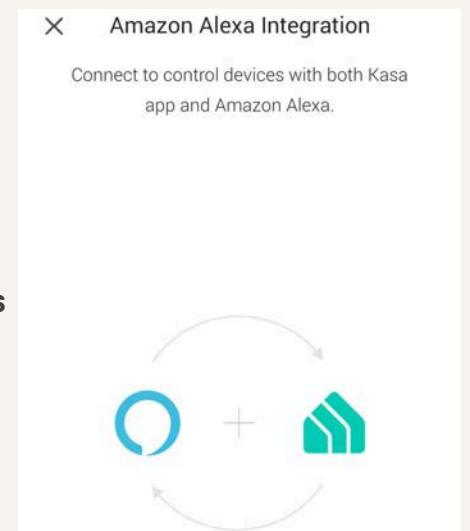


Third-Party Services

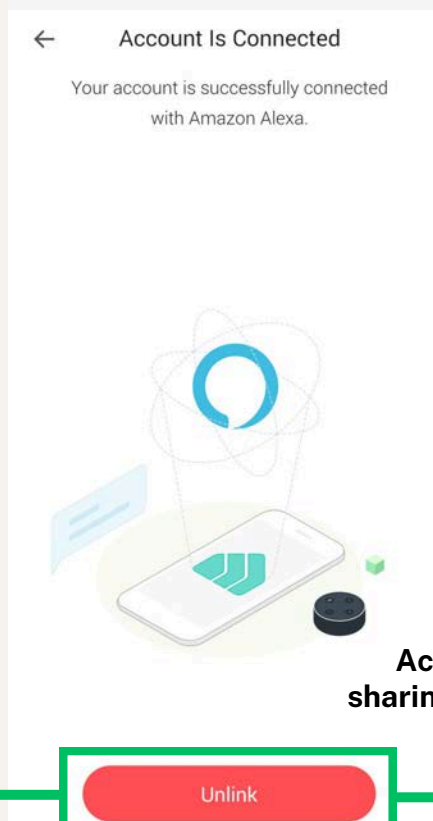
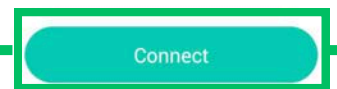


Options for  
third parties  
sharing

Third-Party Services

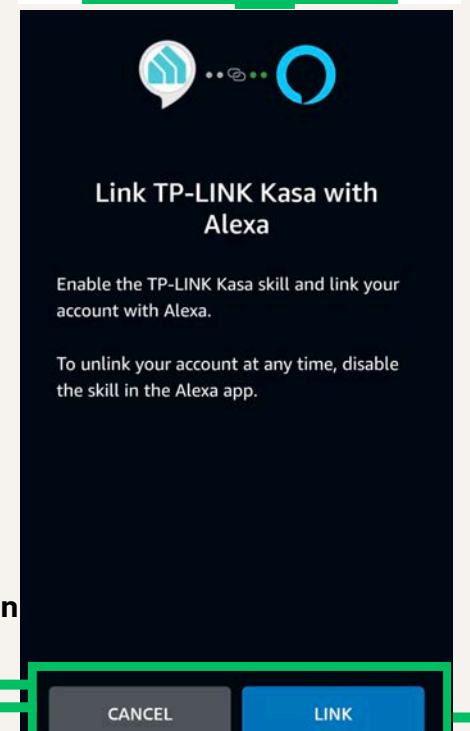


Action button  
sharing



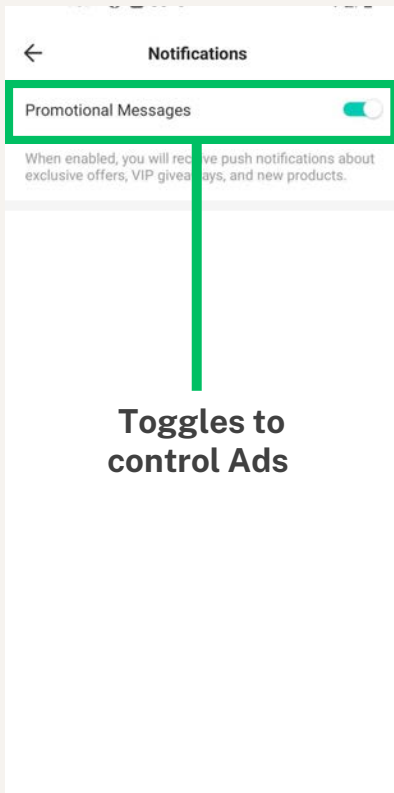
Action button  
sharing confirmation

Action button sharing  
opt-out option

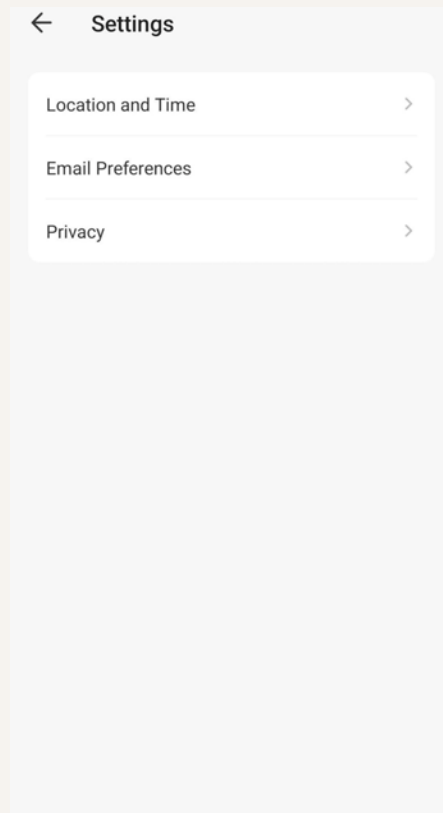


# TP-LINK SMART PLUG Kasa Mobile App Privacy Settings

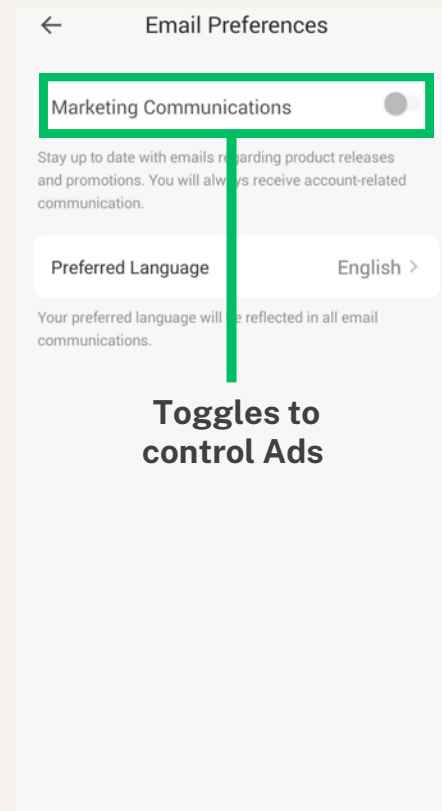
## Profile - Notifications



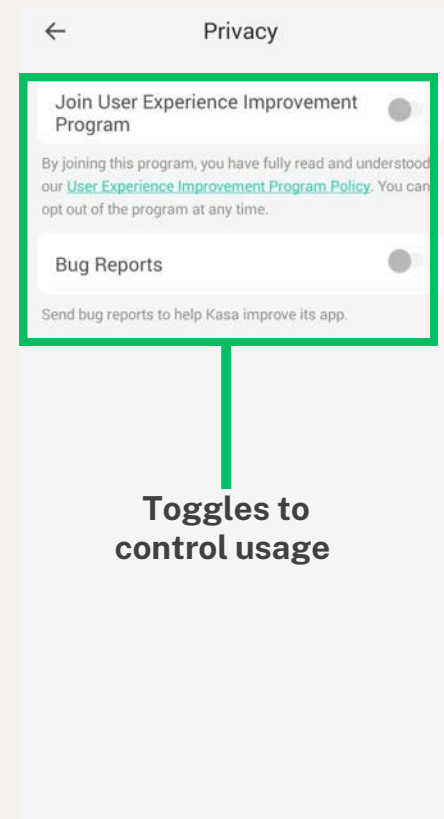
## Profile - Settings



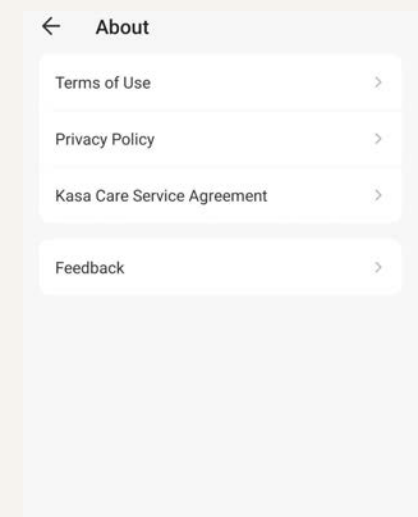
## Profile - Settings email preferences






## Profile - Settings Privacy



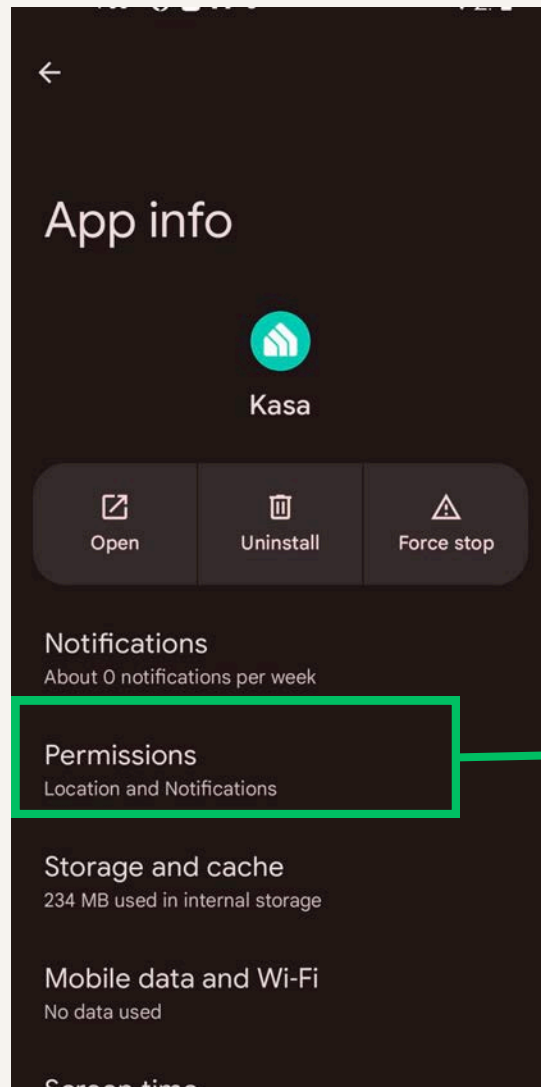
## Profile - About



-  Direct privacy settings configurations (Sharing and Usage)
-  Some configuration options are available to control Ads.
-  Privacy provides options and displays information .

# TP-LINK SMART PLUG

## Kasa Mobile App Permissions



**Kasa mobile app:** TP-Link's smart home brand, offering products such as smart plugs, switches, cameras, and lighting.

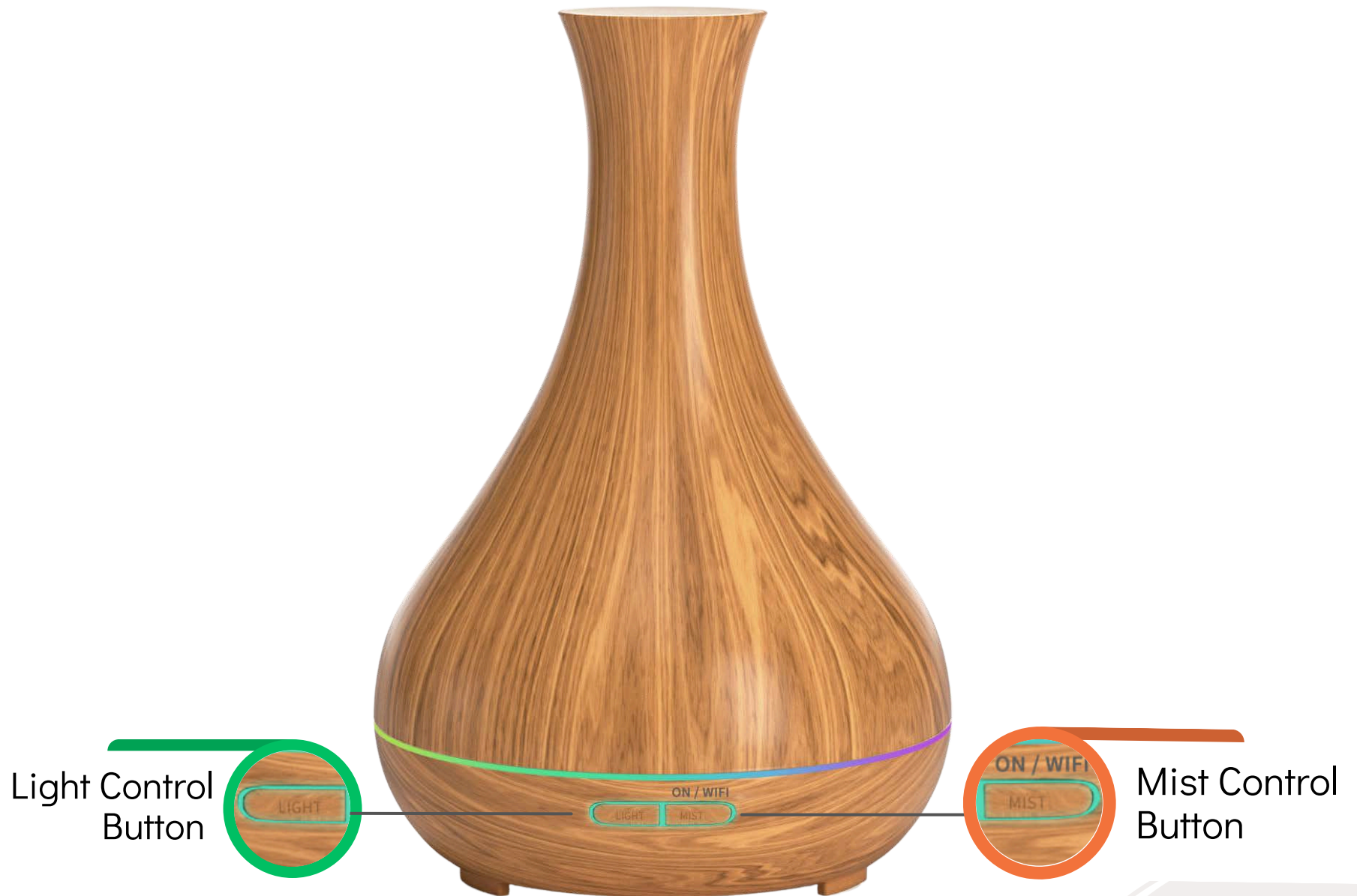
Main app permissions are **Location** and **Notifications**

# Meross Smart Plug

On\Off  
Switch



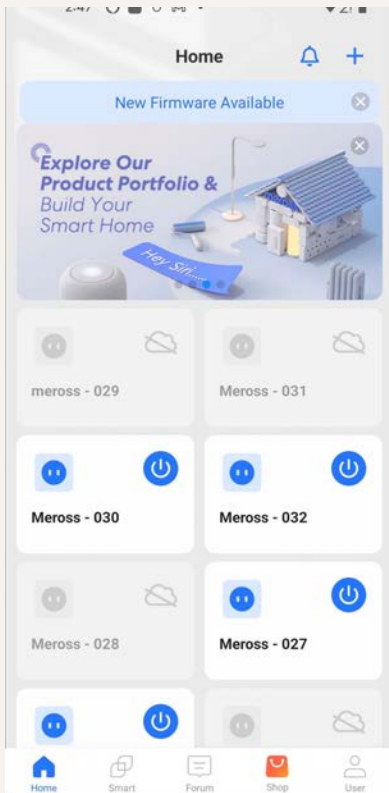
# Meross Oil Diffuser



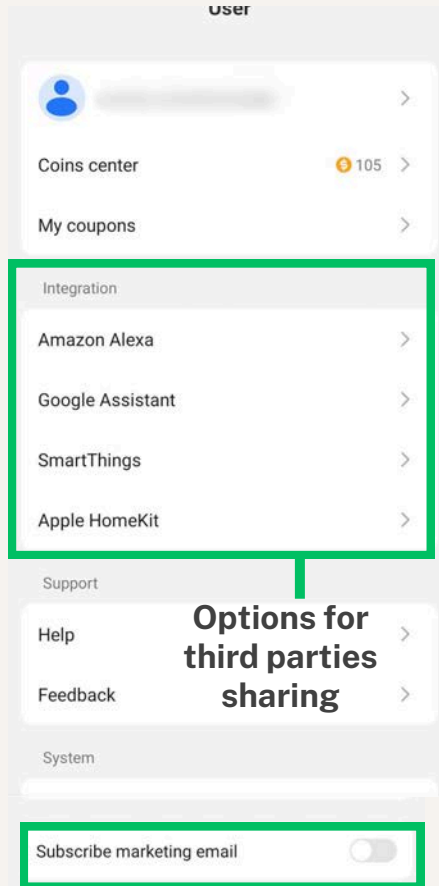
# MEROSS SMART PLUG AND MEROSS OIL DIFFUSER

## Meross Mobile App Privacy Settings

### Home Screen



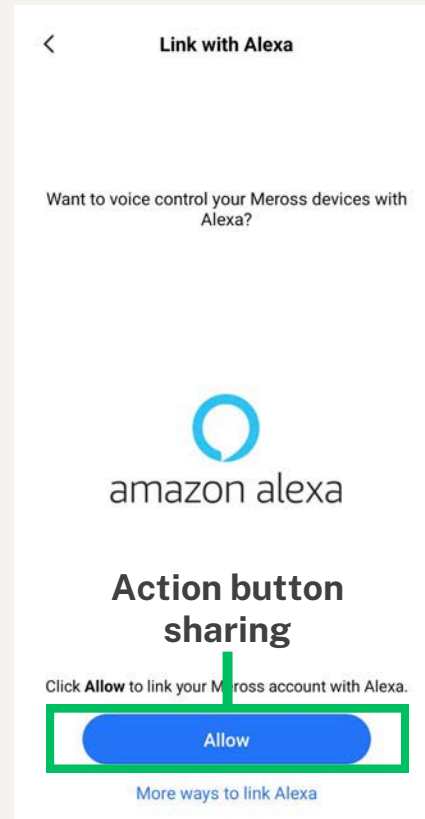
### Profile



Options for third parties sharing

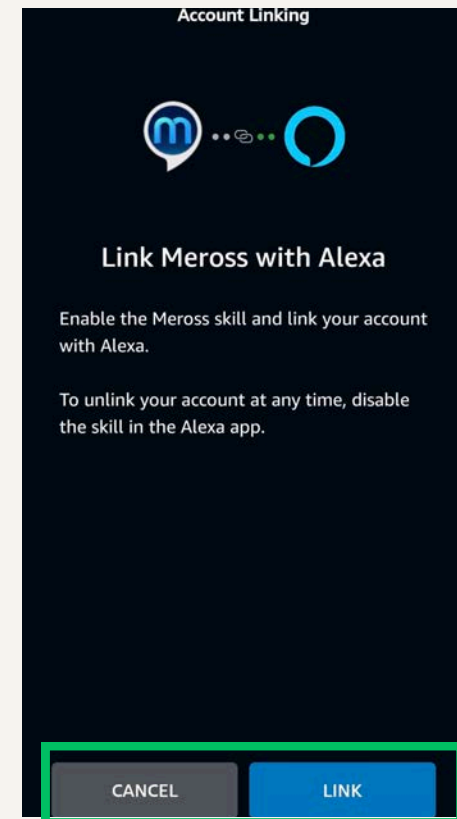
Toggles to control Ads.

### Third-Party Services

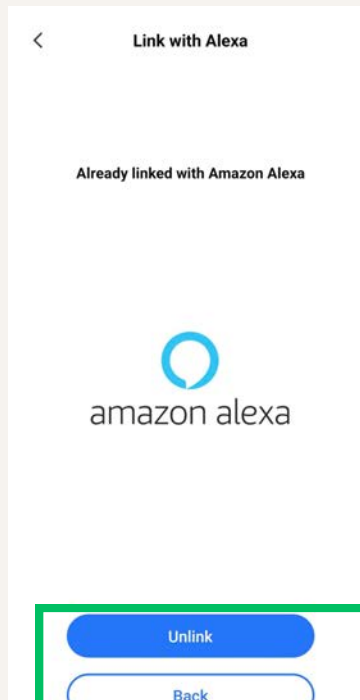
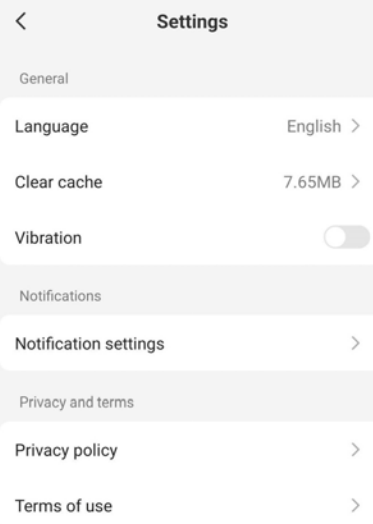


Action button sharing

### Third-Party Services



Action button sharing confirmation



Action button sharing opt-out option

Privacy settings configurations (Sharing).

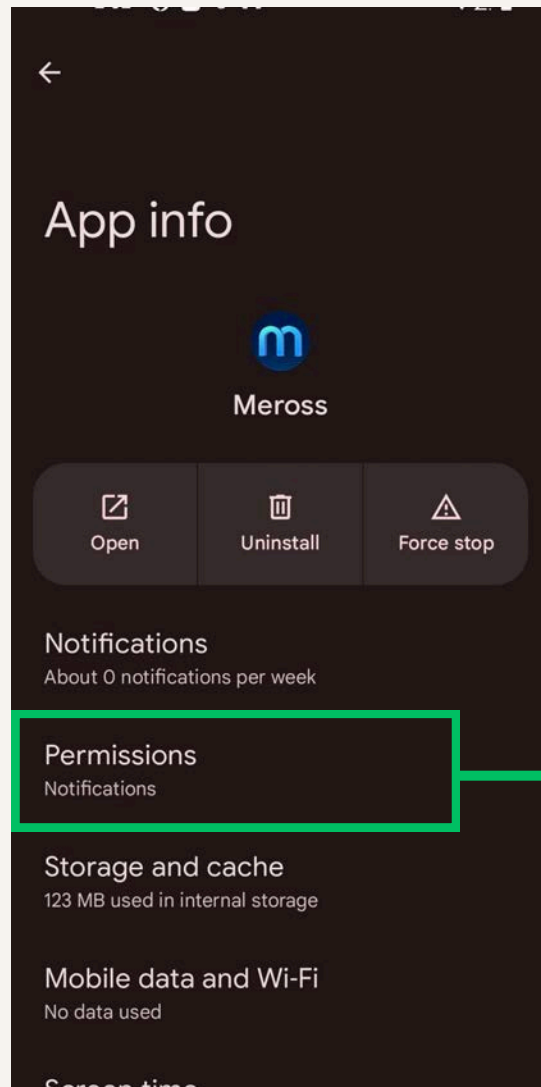
Configuration options to control Ads.

Privacy provides options and displays information .



# MEROSS SMART PLUG AND MEROSS OIL DIFFUSER

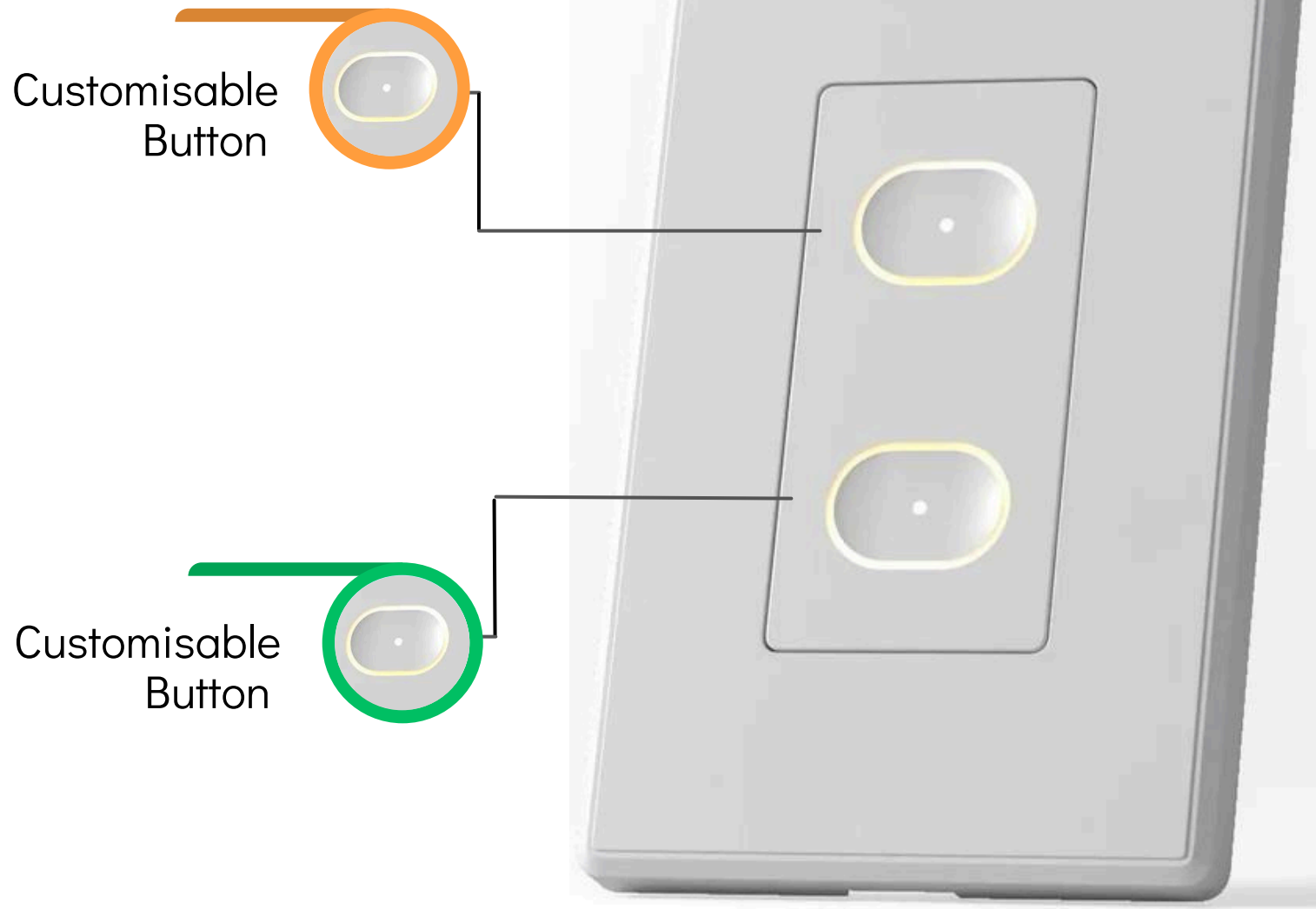
## Meross Mobile App Permissions



**Meross mobile app:** Meross is a brand that offers a range of smart home devices, including smart plugs, switches, bulbs, and garage door openers. These devices can be controlled remotely via smartphone apps and are compatible with voice assistants like Amazon Alexa and Google Assistant.

**Main app permissions are Notifications.**

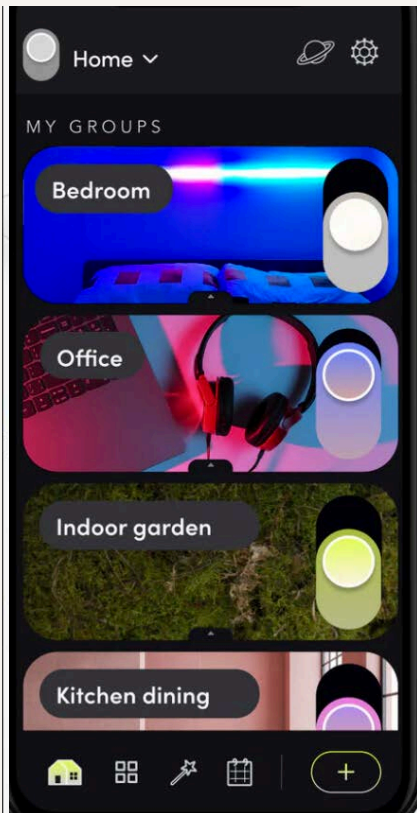
# LIFX Smart Switch



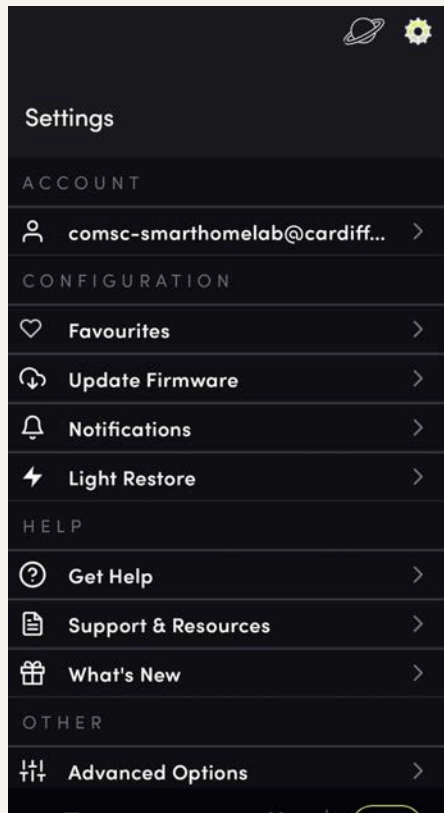
# LIFX SMART SWITCH

## LIFX Mobile App Privacy Settings

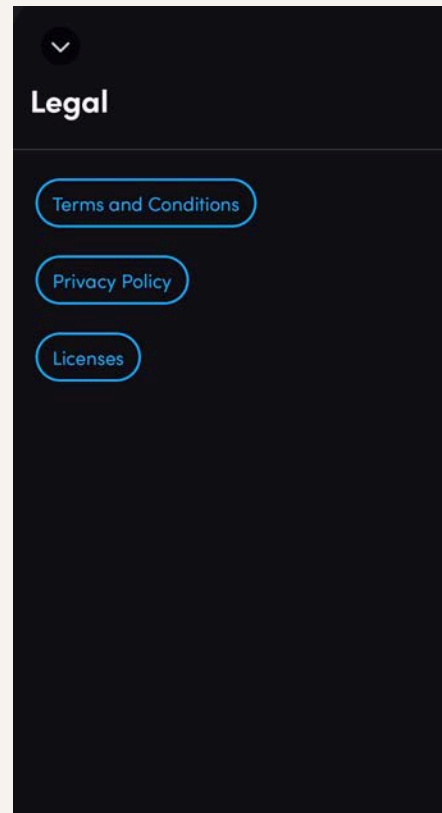
Home Screen



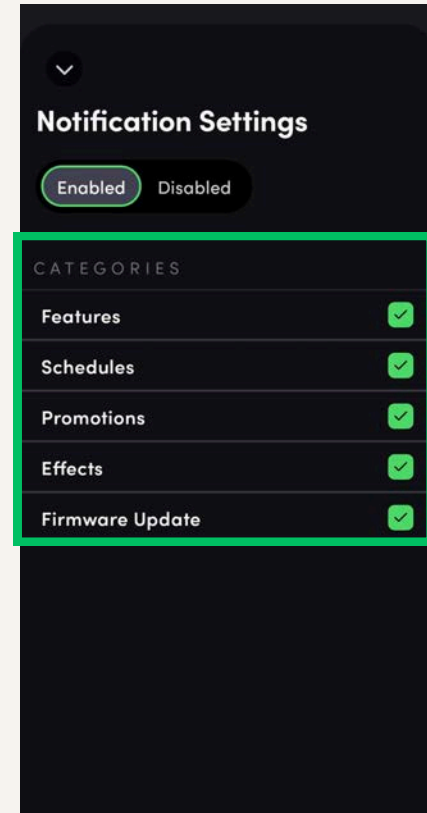
Settings



Legal



Notifications

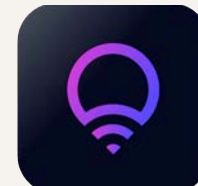
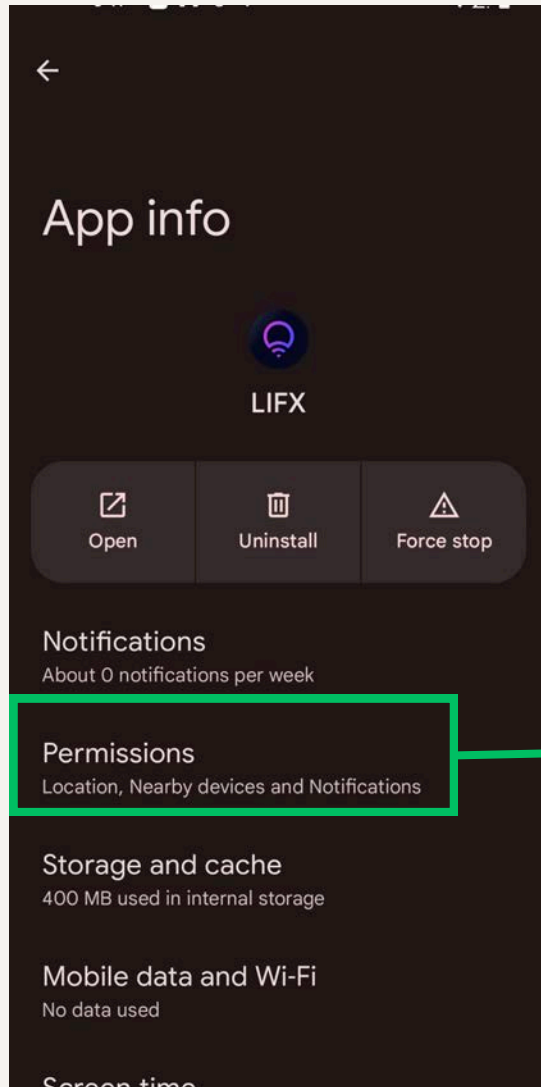


Checkboxes to control Ads

- No direct privacy settings configurations.
- Some configuration options are available to control Ads.
- Legal displays information only without options.

# LIFX SMART SWITCH

## LIFX Mobile App Permissions



**LIFX mobile app:** A brand of smart LED light bulbs and light strips that can be controlled remotely via smartphone apps or integrated with various smart home ecosystems like Google Home or Amazon Alexa.

Main app permissions are **Location** and **Notifications**

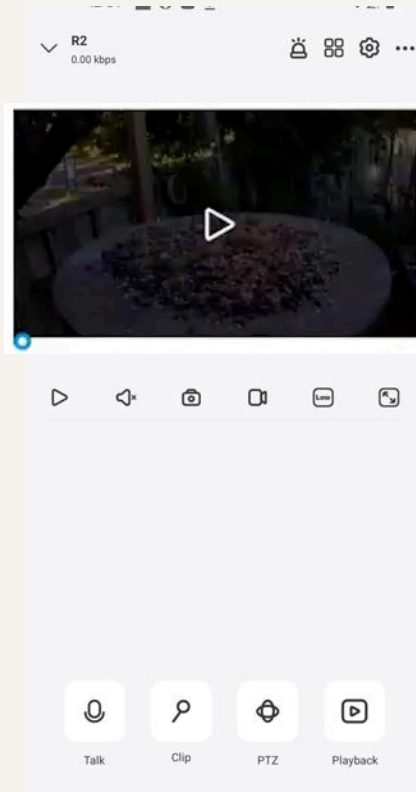
# Reolink Video Doorbell



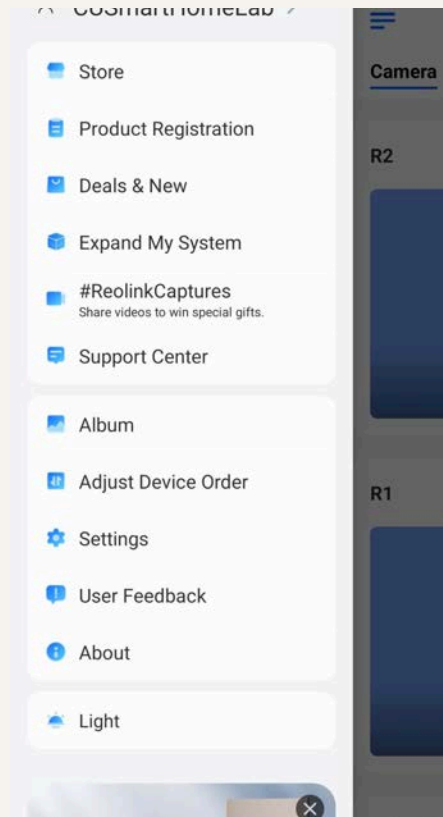
# REOLINK VIDEO DOORBELL

## Reolink Mobile App Privacy Settings

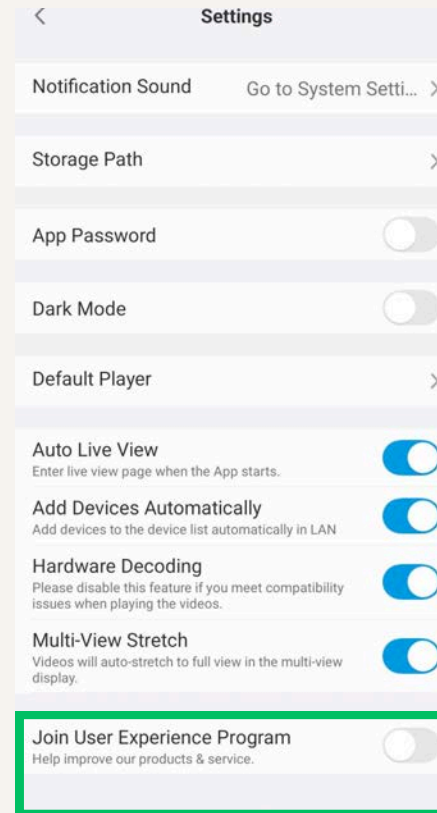
### Home Screen



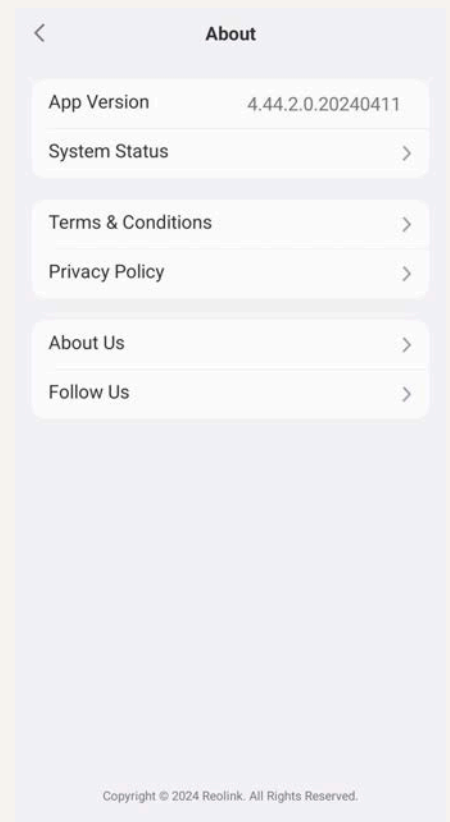
### Menu



### Settings



### Menu - About



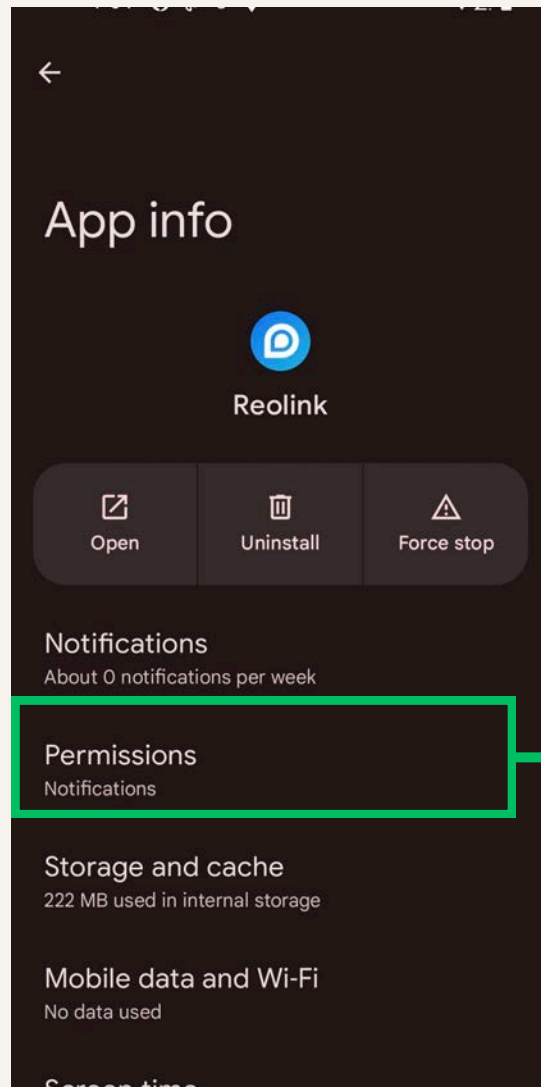
**Toggle to  
control usage**

**● Privacy settings configurations (Usage).**

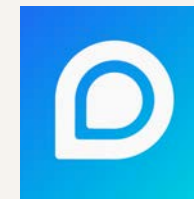
**● Privacy only displays information.**

# REOLINK VIDEO DOORBELL

## Reolink Mobile App Permissions



Main app  
permissions are  
**Notifications.**



**Reolink mobile app:** Reolink specializes in home security cameras and systems, offering both wired and wireless solutions for indoor and outdoor surveillance.

# Nuki Lock Opener





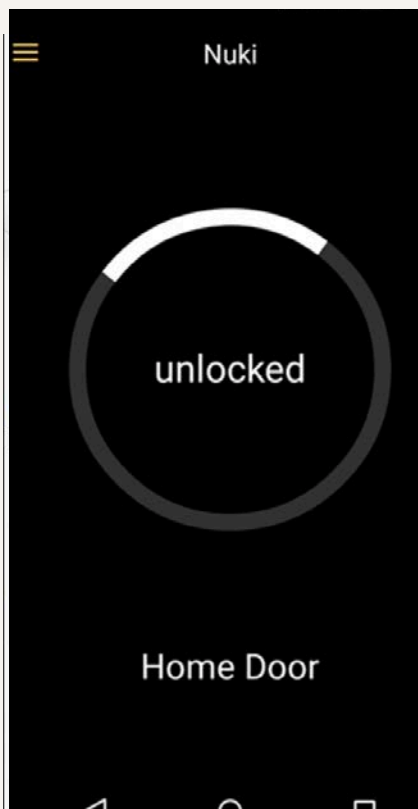
# Nuki Smart Lock



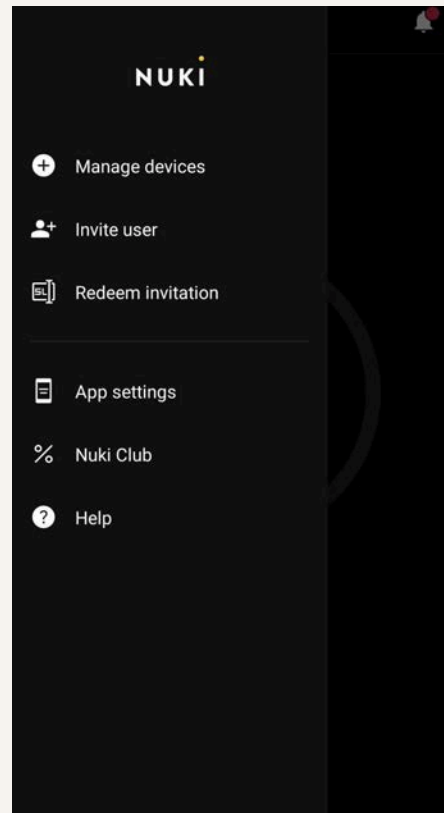
# NUKI SMART LOCK AND NUKI OPENER

## Nuki Mobile App Privacy Settings

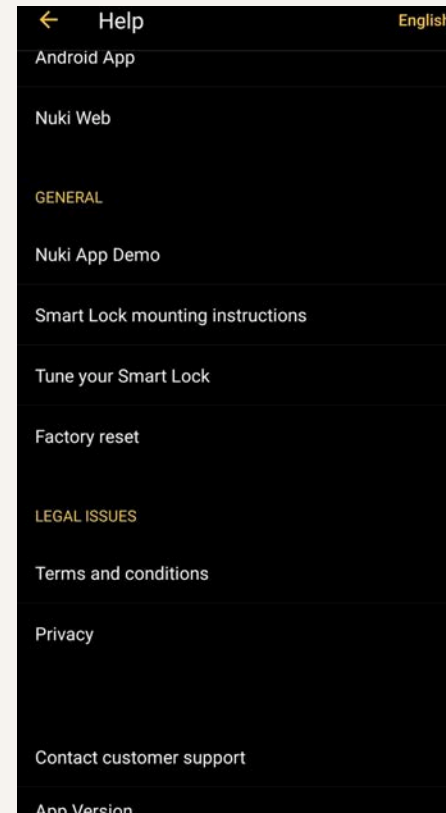
Home Screen



Menu



Help  
(Scroll down)

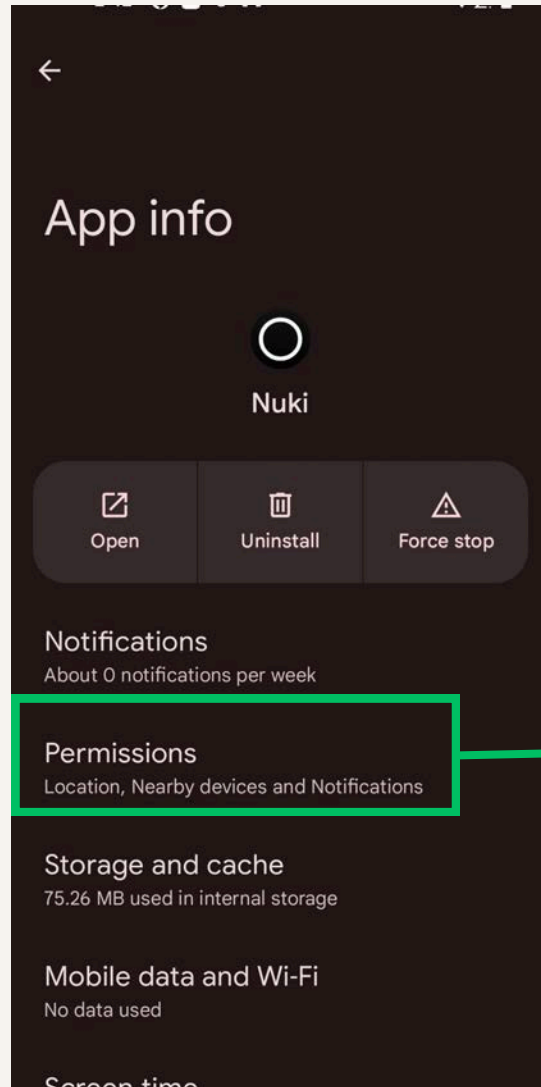


 No privacy settings configurations.

 Privacy displays information only without options.

# NUKI SMART LOCK AND NUKI OPENER

## Nuki Mobile App Permissions



**Nuki mobile app:** Nuki produces smart door locks that can be controlled remotely via smartphone apps. They offer various features such as auto-unlock, virtual keys, and integration with smart home ecosystems.

Main app permissions are **Location** and **Notifications**

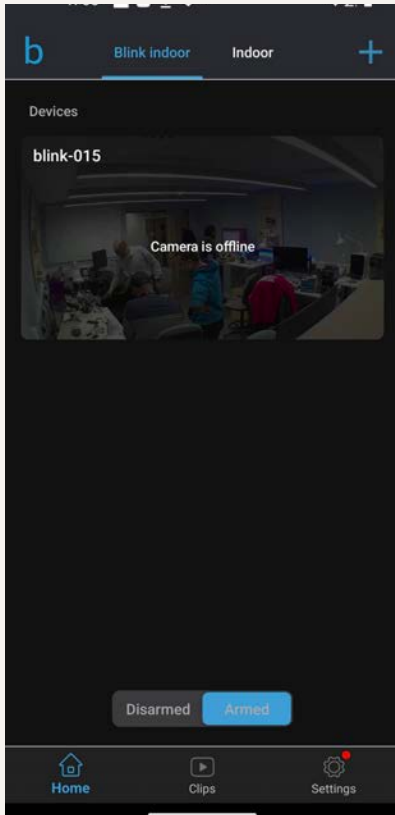
# Blink Video Doorbell



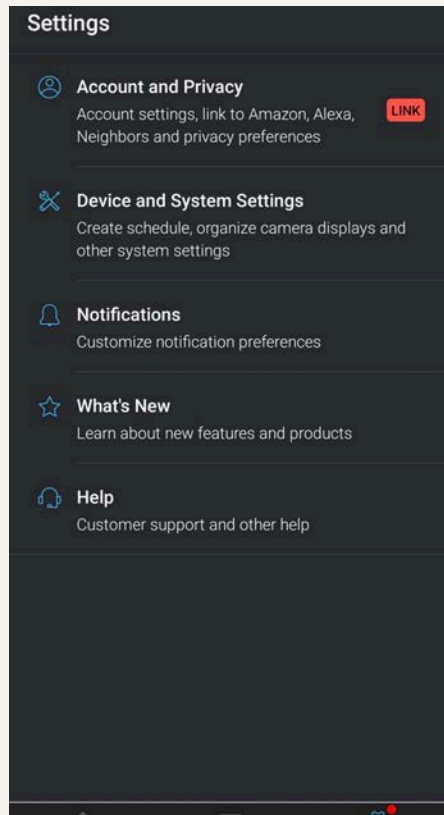
# BLINK VIDEO DOORBELL

## Blink Mobile App Privacy Settings

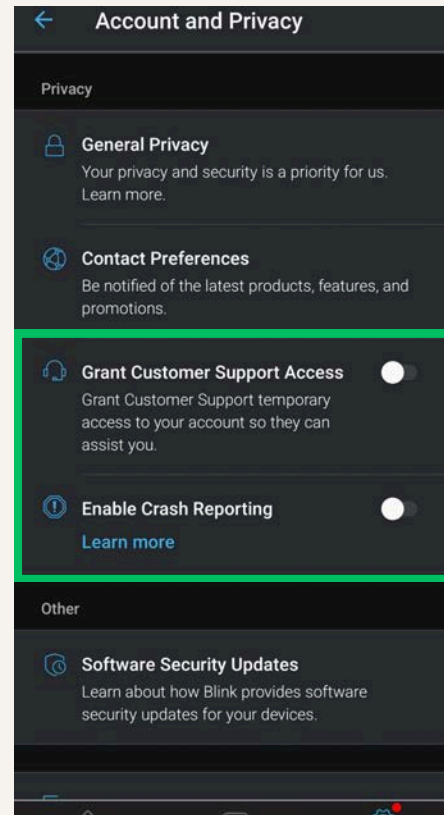
### Home Screen



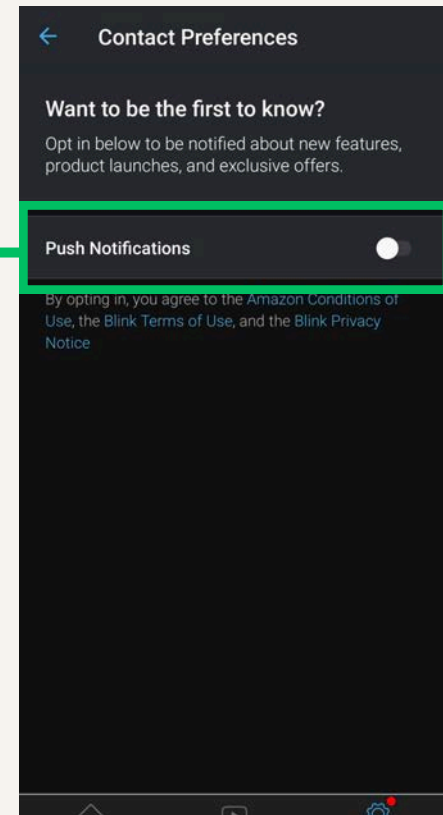
### Setting



### Privacy



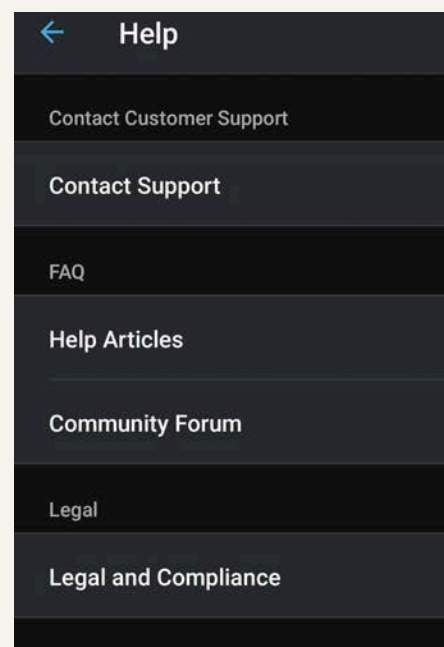
### Privacy - Preferences



Toggle to control Ads.

Toggle to control sharing.

### Setting - Help



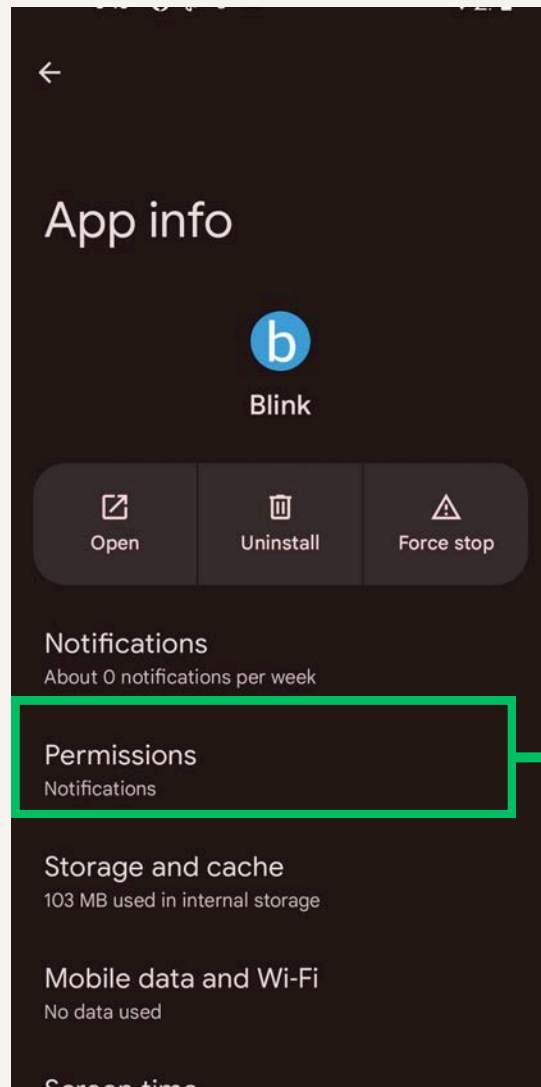
● Privacy settings configurations (Sharing).

● Configuration options are available to control Ads.

● Legal displays information.

# BLINK VIDEO DOORBELL

## Blink Mobile App Permissions



**Blink mobile app:** Blink is a brand of home security cameras and systems owned by Amazon. Their products offer features such as motion detection, HD video recording, and integration with the Blink app for remote monitoring and control.

**Main app permissions are Notifications.**

# Tapo Home Camera

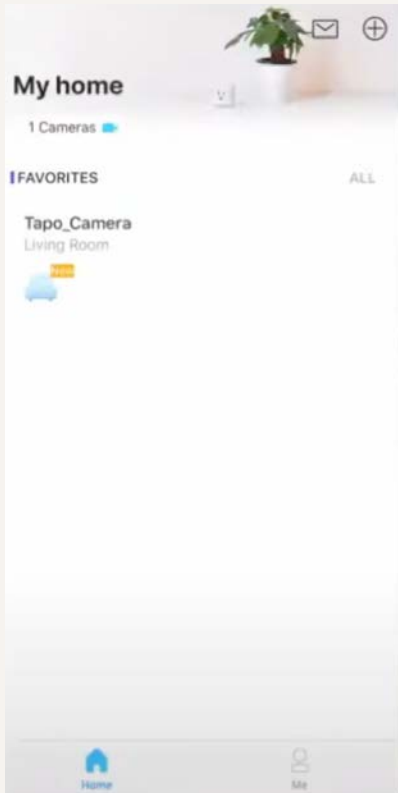


Lens Conceal  
Button

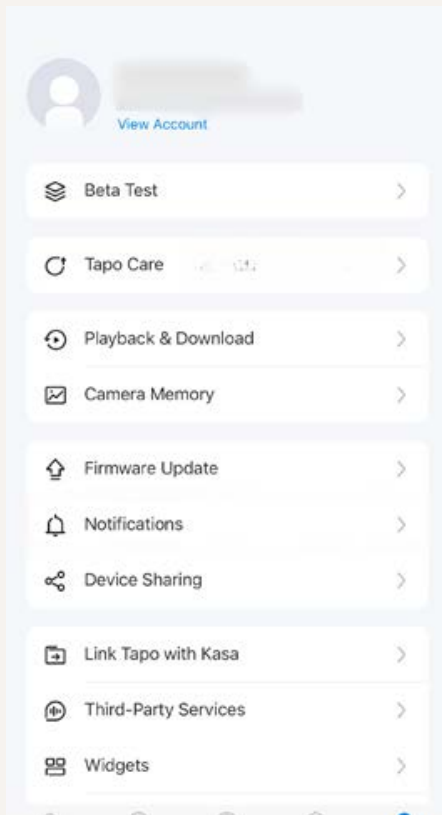
# TAPO HOME CAMERA

## Tapo Mobile App Privacy Settings

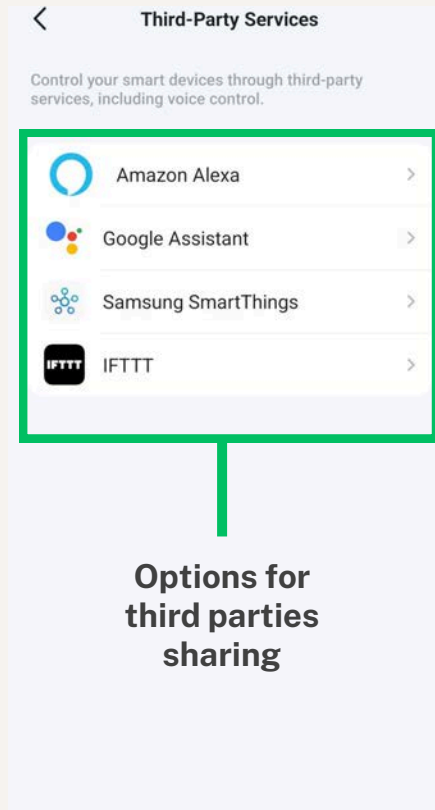
Home Screen



Profile

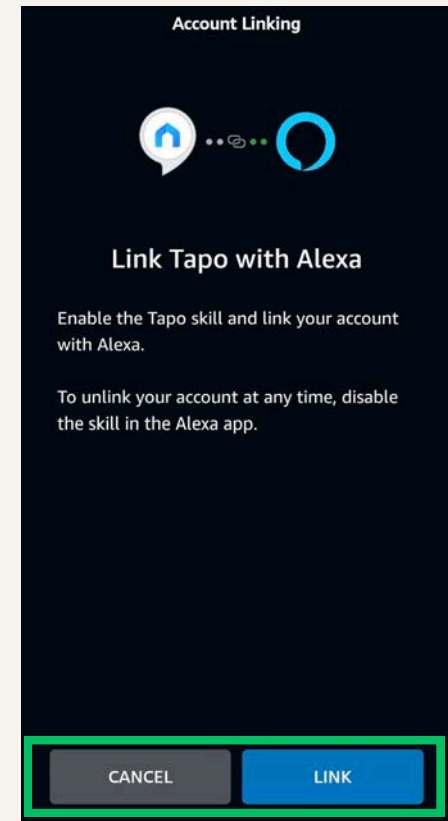


Third-Party Services

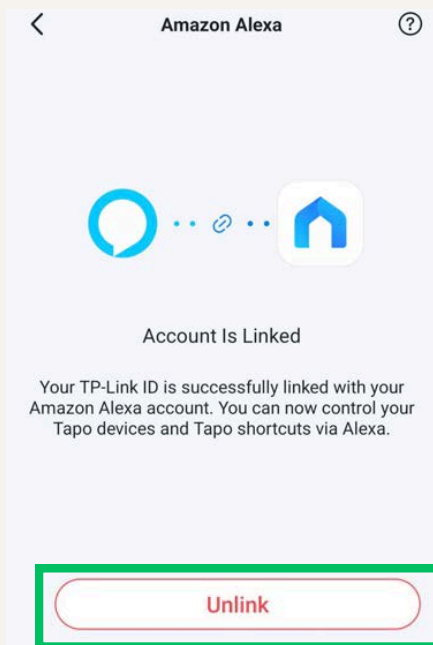


Options for third parties sharing

Third-Party Services



Action button sharing confirmation



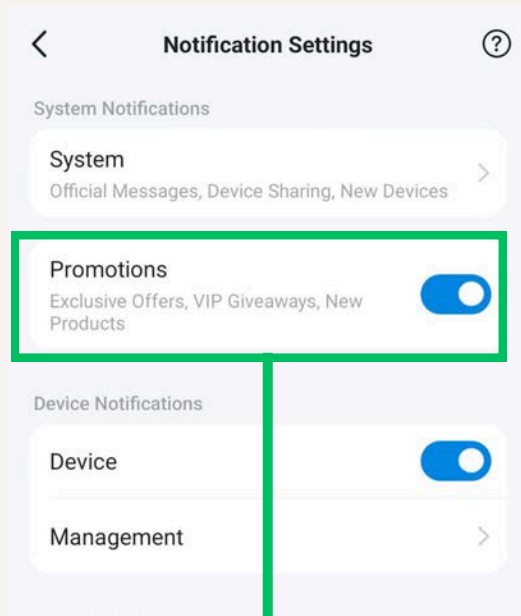
Action button sharing opt-out option



# TAPO HOME CAMERA

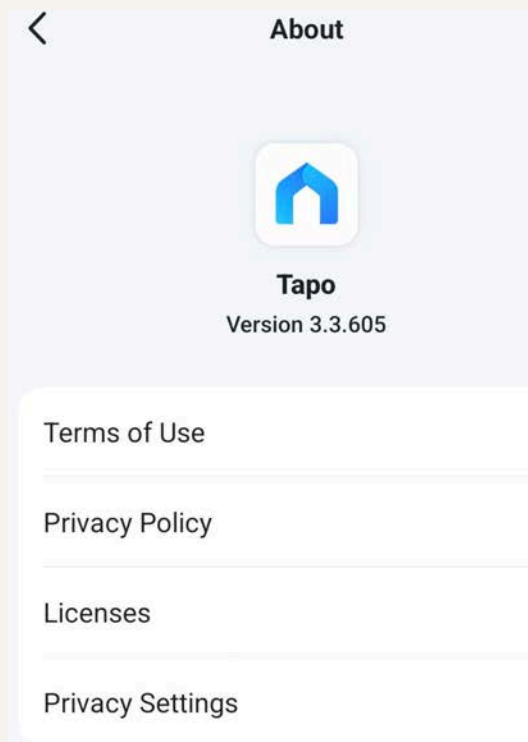
## Tapo Mobile App Privacy Settings

### Profile - Notifications

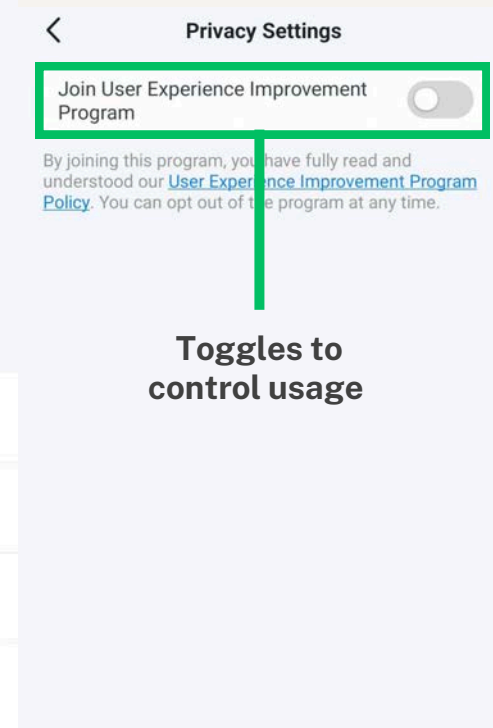


Toggles to control  
Ads.

### Profile - About (Scroll down)



### Privacy Settings



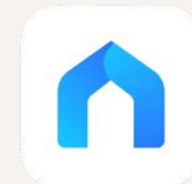
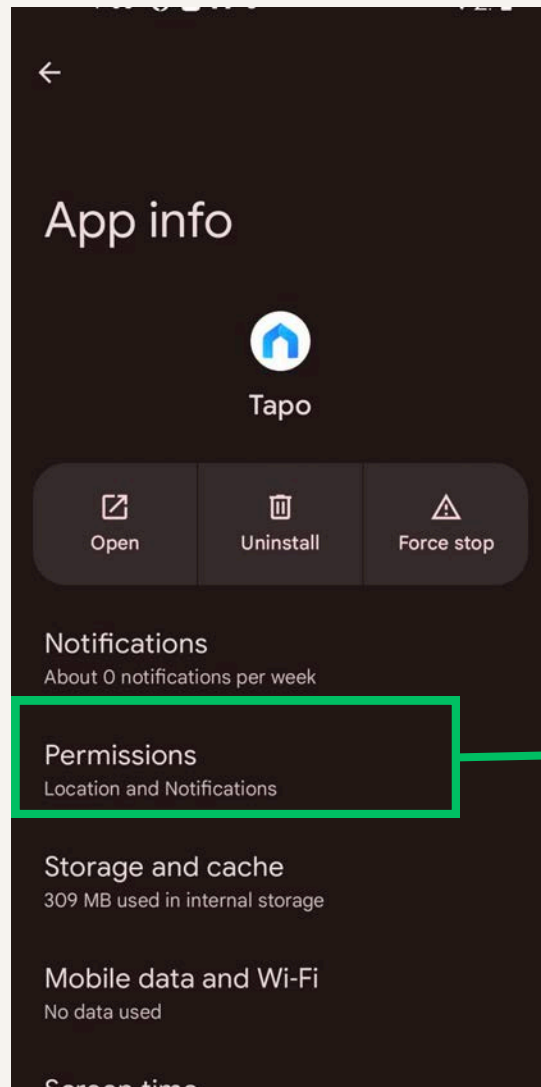
● Direct privacy settings configurations (Sharing and Usage).

● Configuration options are available to control Ads.

● Privacy provides options and displays information .

# TAPO HOME CAMERA

## Tapo Mobile App Permissions



**Tapo mobile app:** Tapo is a brand that offers smart home devices such as smart plugs, smart bulbs, and security cameras. These devices can be controlled remotely via a smartphone app.

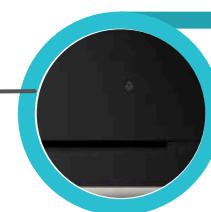
Main app permissions are **Location** and **Notifications**

# BOSCH Built-in Oven

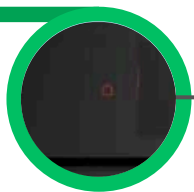
On\Off Button



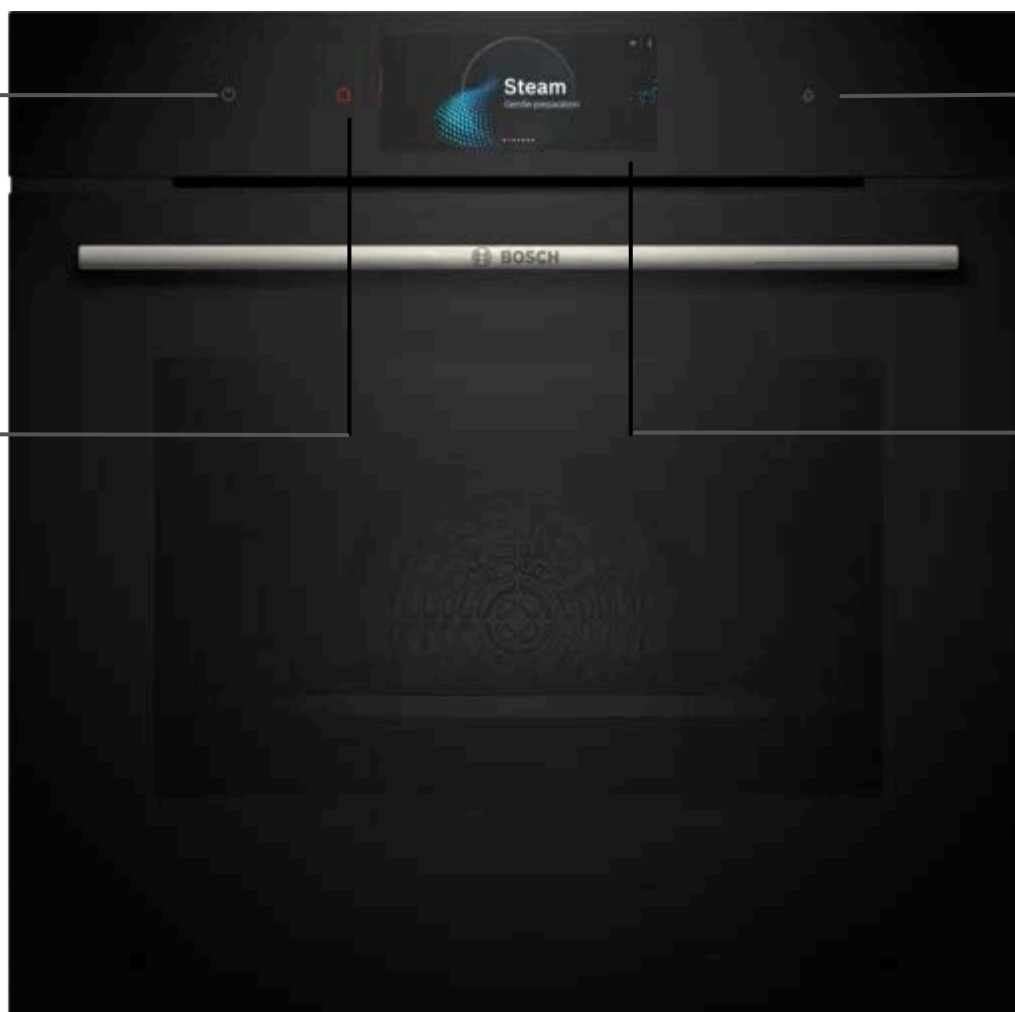
Control Panel  
Button



Operating Modes  
Button



Setting Ring



# BOSCH Room Thermostat

Temperature  
Control Knob

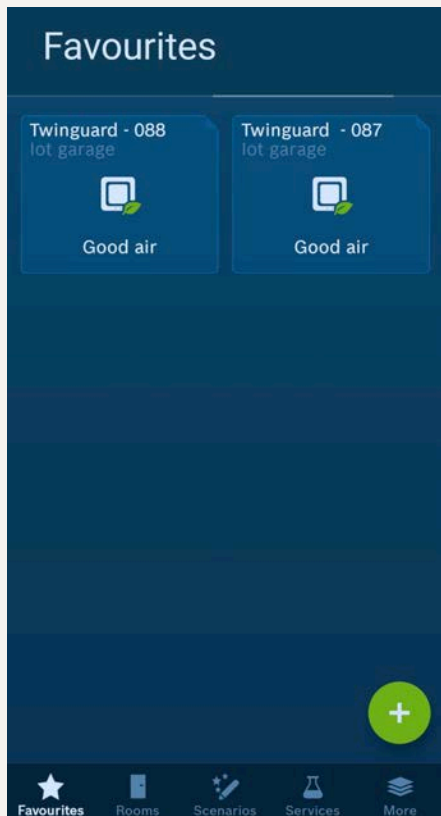


System Control  
Button

# BOSCH ROOM THERMOSTAT AND BOSCH BUILT-IN OVEN

## Bosch Smart Home Mobile App Privacy Settings

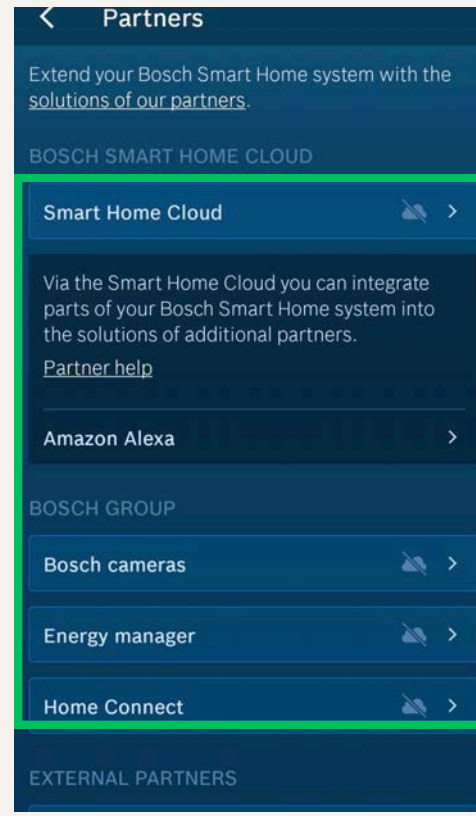
Home Screen



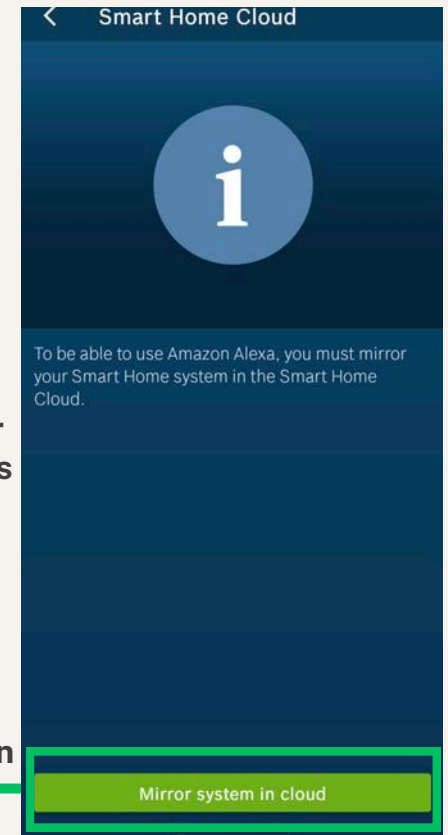
More



Partners



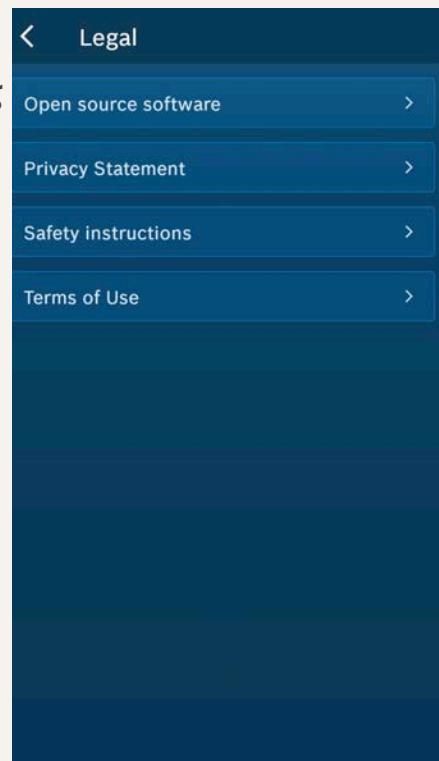
Third-Party Services



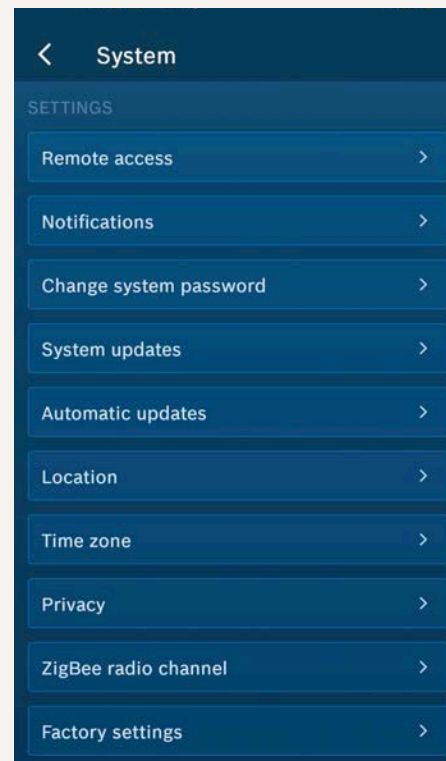
Options for third parties sharing

Action button sharing

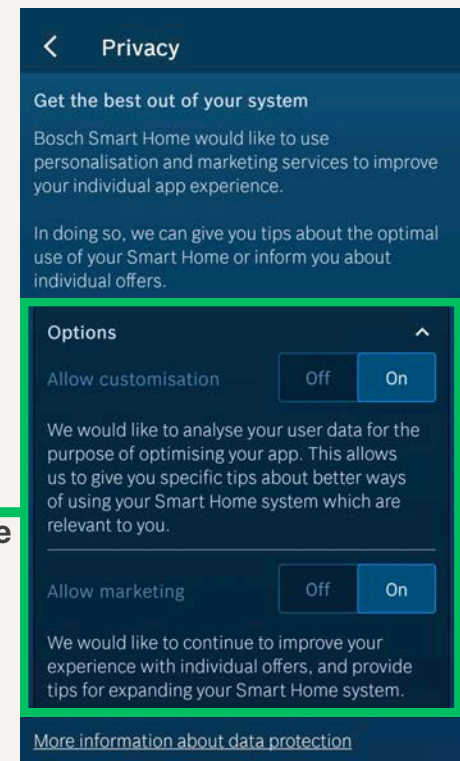
Legal



Profile - System



Privacy



Toggle Buttons to control usage and Ads.

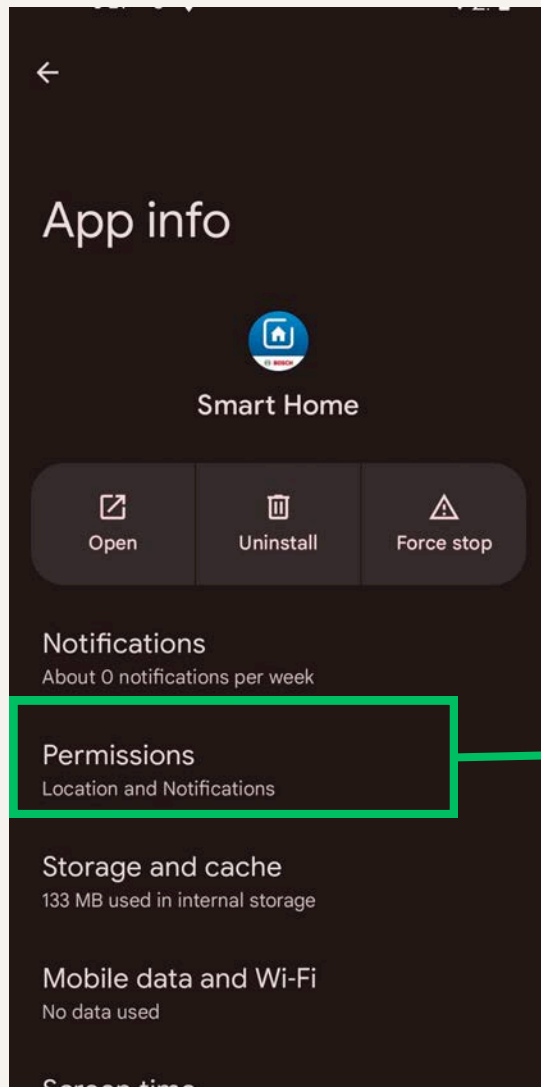
Direct privacy settings configurations (Sharing and Usage).

Configuration options are available to control Ads.

Privacy provides options and displays information .

# BOSCH ROOM THERMOSTAT AND BOSCH BUILT-IN OVEN

## Bosch Smart Home Mobile App Permissions



**Bosch Smart Home mobile app:** The Bosch app is designed to provide a seamless and integrated experience for managing and controlling Bosch smart home devices. The app serves as a central hub for controlling all Bosch smart home devices, including security systems, lighting, heating, and more.

Main app permissions are **Location** and **Notifications**.

# Echo Dot Smart Speaker



# Echo Studio Smart Speaker





# Echo Show Smart Speaker

Microphone/Camera  
Control Button



Volume Up  
Button



Volume Down  
Button



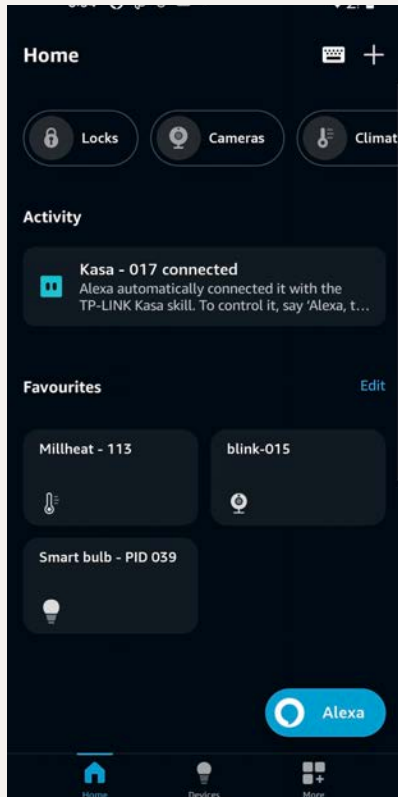
Camera Cover  
Slider



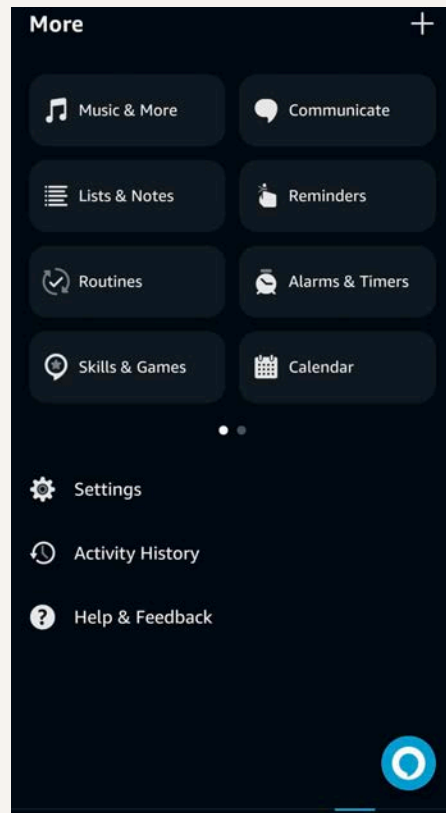
# ECHO DOT, STUDIO, AND SHOW SMART SPEAKERS

## Amazon Alexa Mobile App Privacy Settings

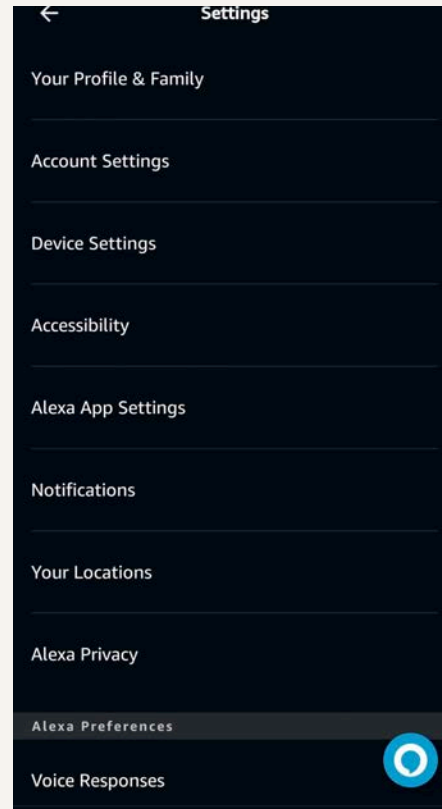
Home Screen



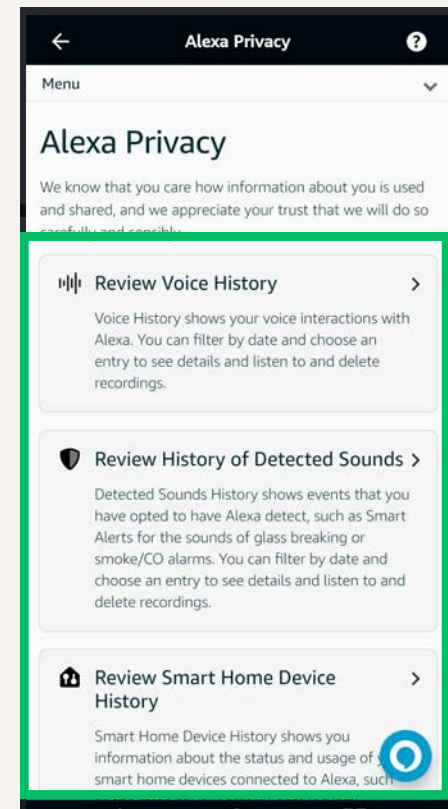
More



Settings



Privacy

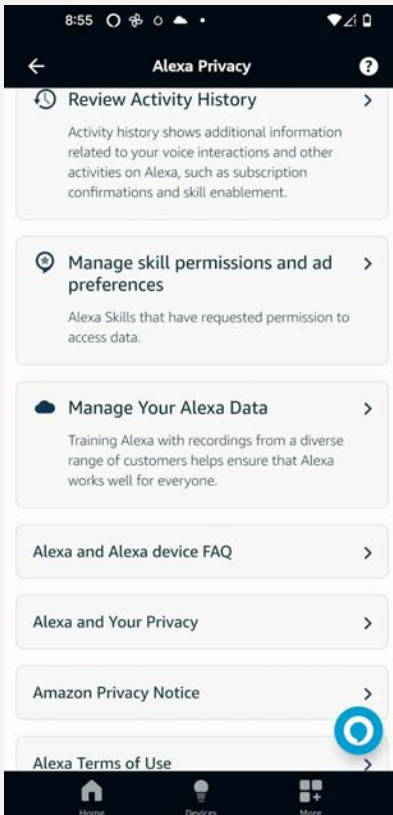


Menus to  
review history

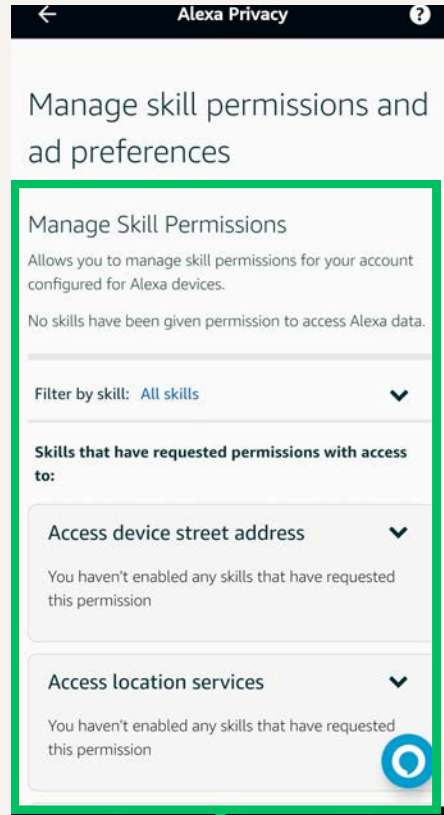
# ECHO DOT, STUDIO, AND SHOW SMART SPEAKERS

## Amazon Alexa Mobile App Privacy Settings

### Privacy

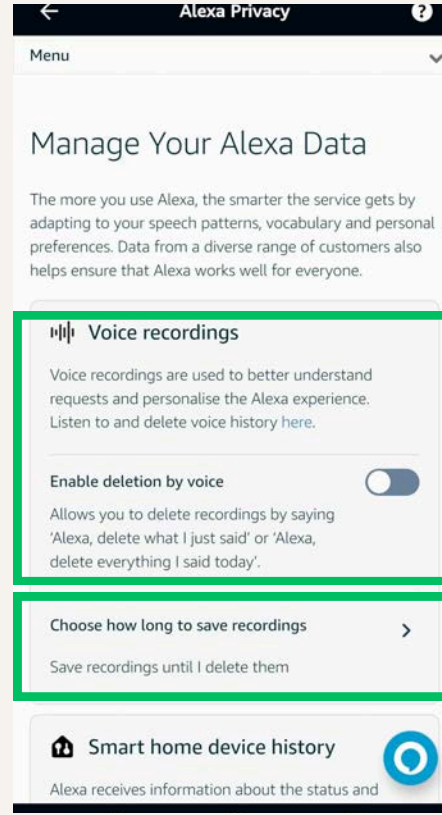


### Privacy - Skills Permissions



Menus to control sharing

### Privacy - Manag Data

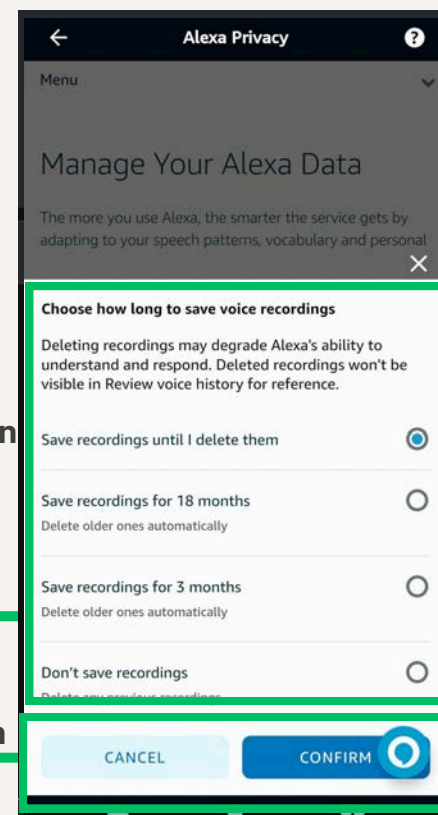


Toggle to control retention

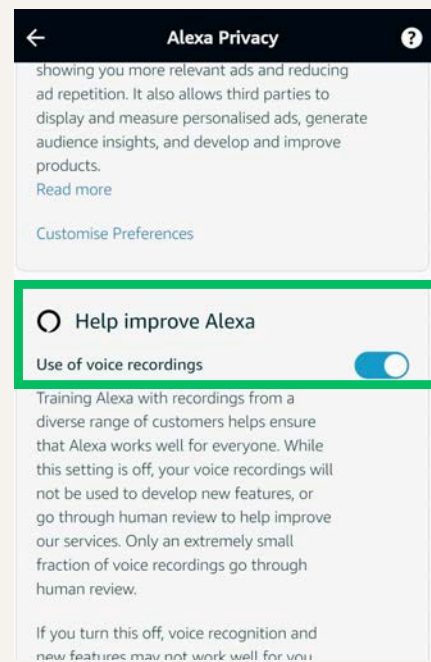
Radio buttons to control retention

Action button to confirm retention

### Privacy - Manag Data



### Privacy - Manag Data



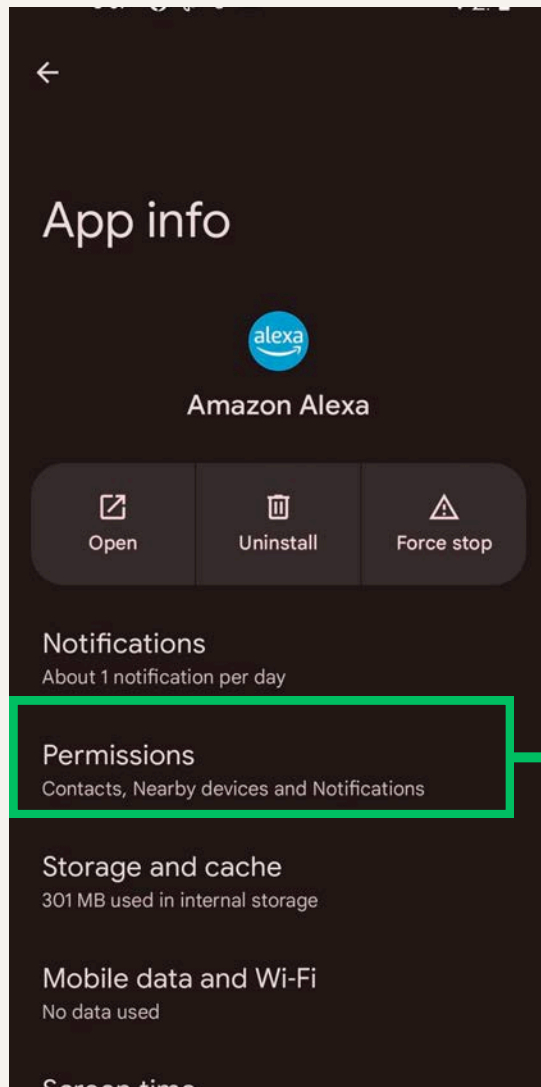
Toggle to control usage

Direct privacy settings configurations (Sharing, Usage and Retention).

Privacy provides optins and displays information.

# ECHO DOT, STUDIO, AND SHOW SMART SPEAKERS

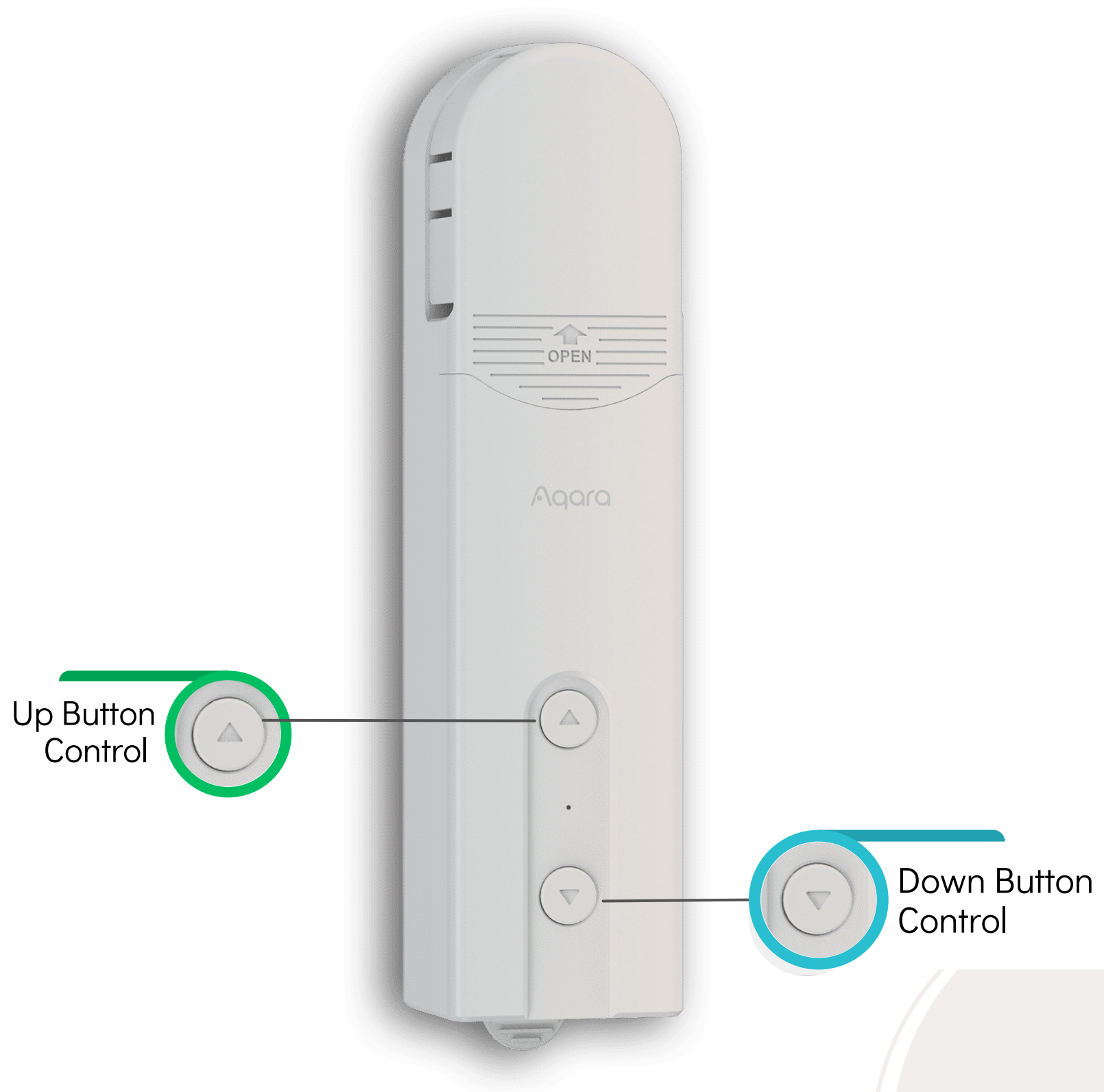
## Amazon Alexa Mobile App Permissions



**Amazon Alexa mobile app:** Alexa is Amazon's voice-controlled virtual assistant. It powers the Amazon Echo line of smart speakers and can be integrated with various smart home devices and services to enable voice control and automation.

**Main app permissions are Contacts and Notifications.**

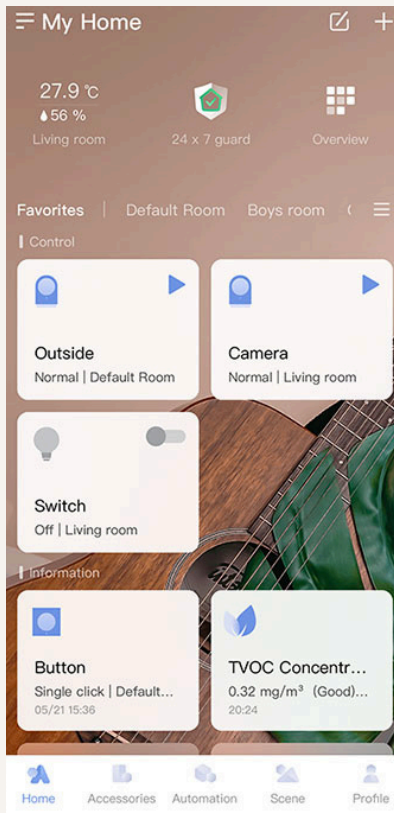
# Aqara Roller Shade Driver



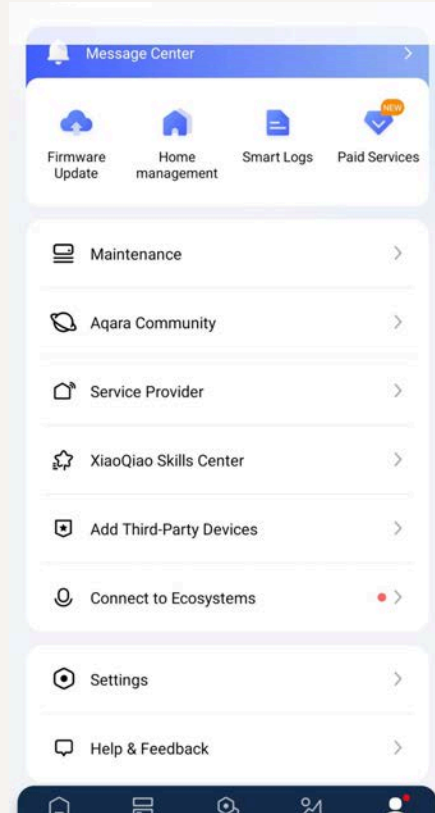
# AQARA ROLLER SHADE DRIVER

## Aqara Home Mobile App Privacy Settings

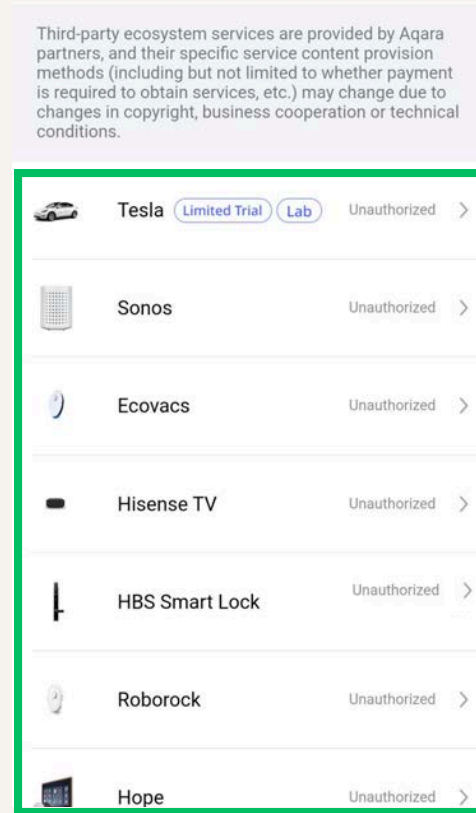
### Home Screen



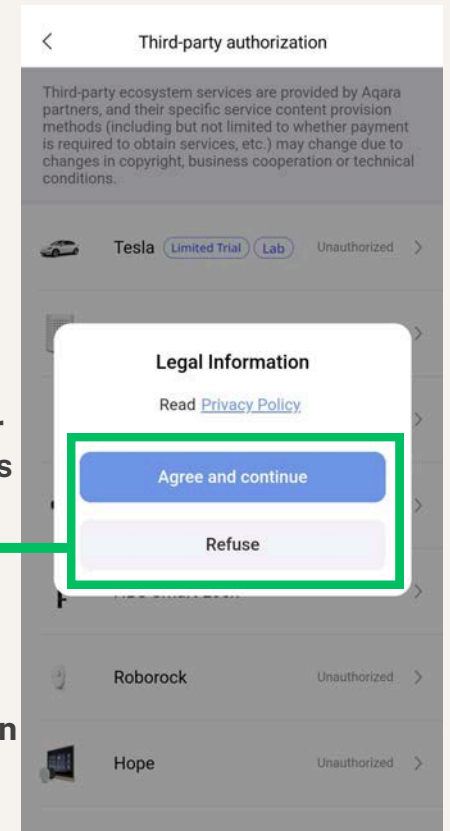
### Profile



### Third-Party Devices



### Third-Party Services

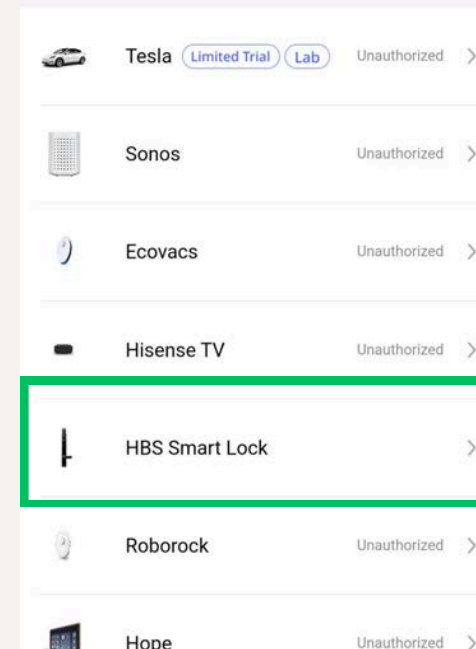


Options for third parties sharing

Action button sharing

Third-Party Authorised

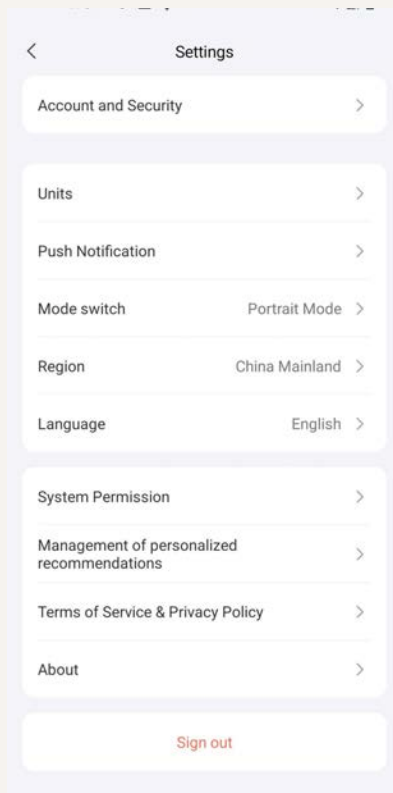
Third-party ecosystem services are provided by Aqara partners, and their specific service content provision methods (including but not limited to whether payment is required to obtain services, etc.) may change due to changes in copyright, business cooperation or technical conditions.



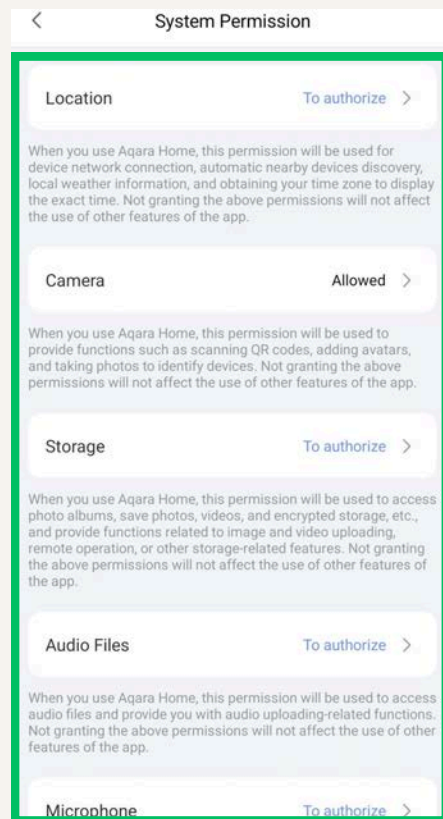
# AQARA ROLLER SHADE DRIVER

## Aqara Home Mobile App Privacy Settings

### Profile - Settings

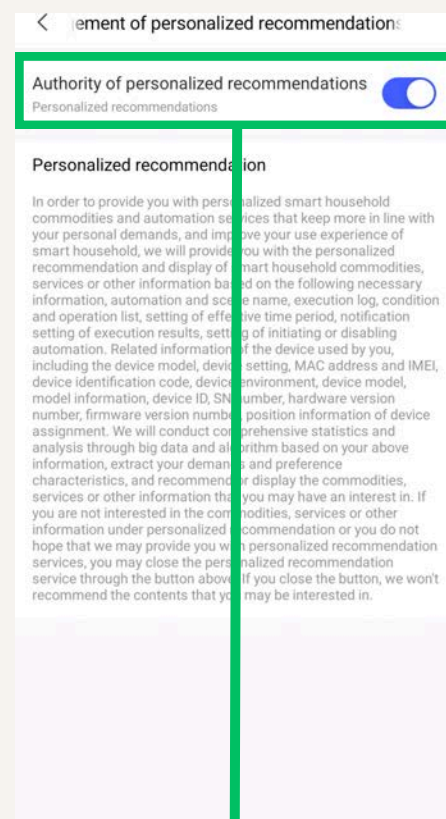


### Settings - System Permissions



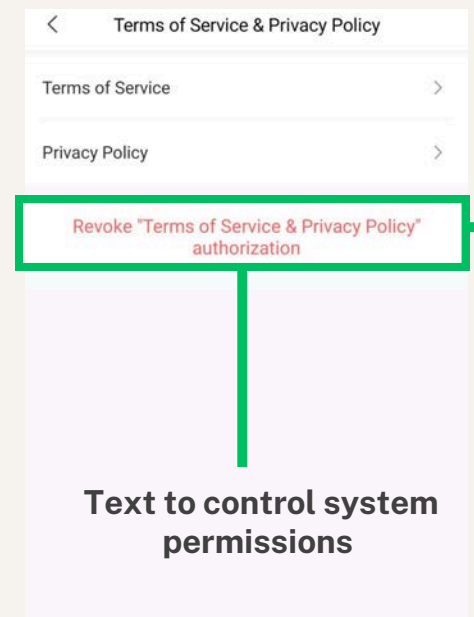
Text to control system permissions

### Settings - Personalised recommendation

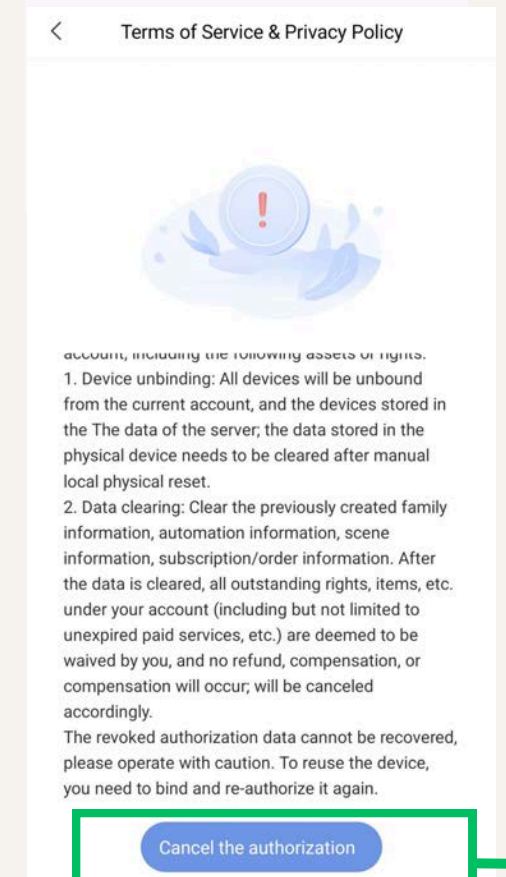


Toggles to control Ads

### Settings - Terms of Service



Text to control system permissions



Action Button confirmation

● Direct privacy settings configurations (Sharing and Usage)

● Configuration options are available to control Ads.

● Privacy provides options and displays information .

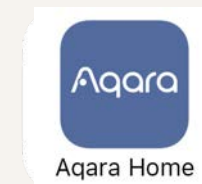
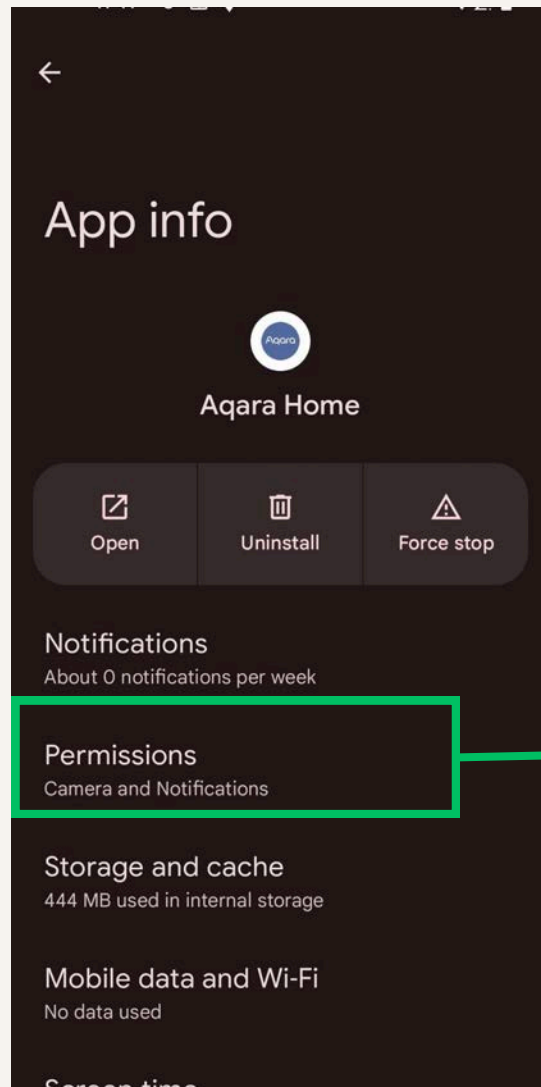
account, including the following assets or rights.

1. Device unbinding: All devices will be unbound from the current account, and the devices stored in the The data of the server; the data stored in the physical device needs to be cleared after manual local physical reset.
2. Data clearing: Clear the previously created family information, automation information, scene information, subscription/order information. After the data is cleared, all outstanding rights, items, etc. under your account (including but not limited to unexpired paid services, etc.) are deemed to be waived by you, and no refund, compensation, or compensation will occur; will be canceled accordingly.

The revoked authorization data cannot be recovered, please operate with caution. To reuse the device, you need to bind and re-authorize it again.

# AQARA ROLLER SHADE DRIVER

## Aqara Home Mobile App Permissions

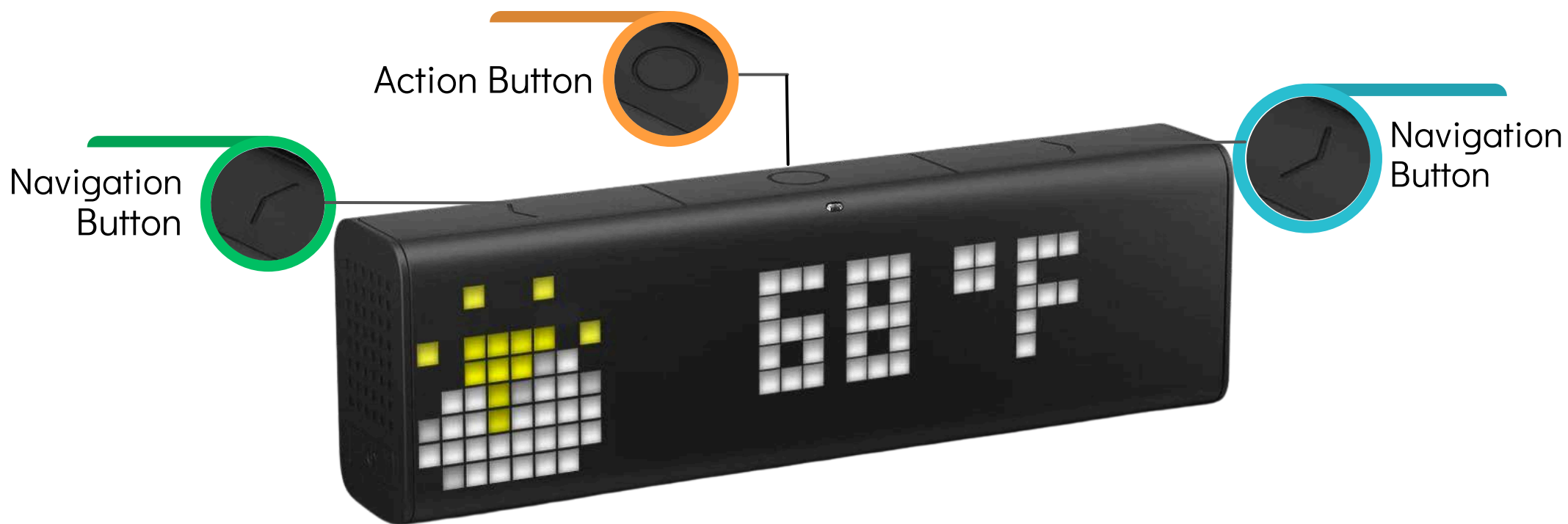


**Aqara Home mobile app:** The Aqara app provides smart home products such as sensors, switches, and hubs, compatible with major smart home ecosystems.

Main app permissions are **Camera and Notifications.**



# LaMetric Time Smart Clock



# LAMETRIC TIME SMART CLOCK

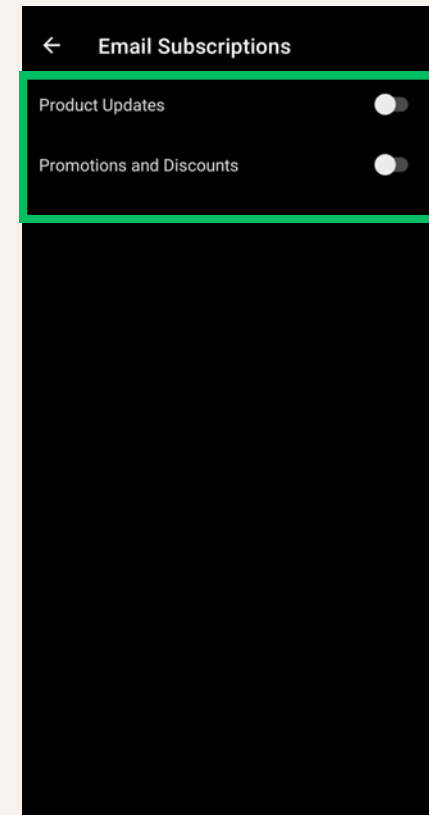
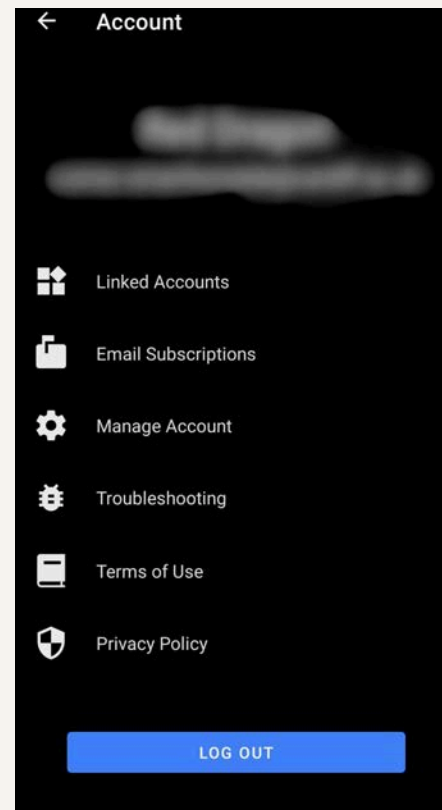
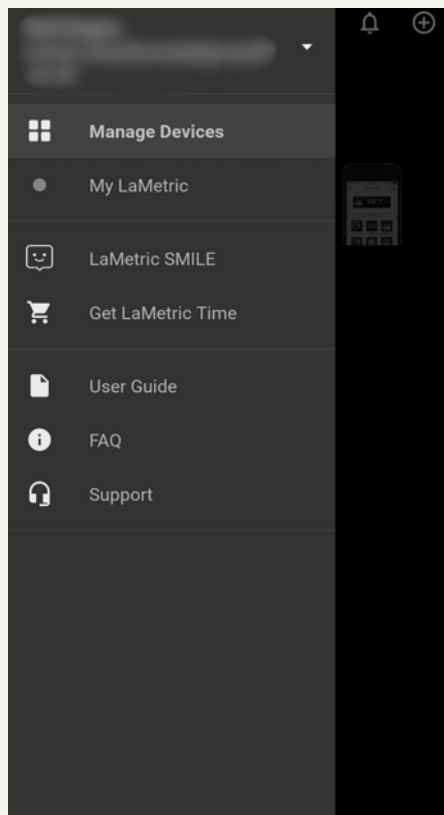
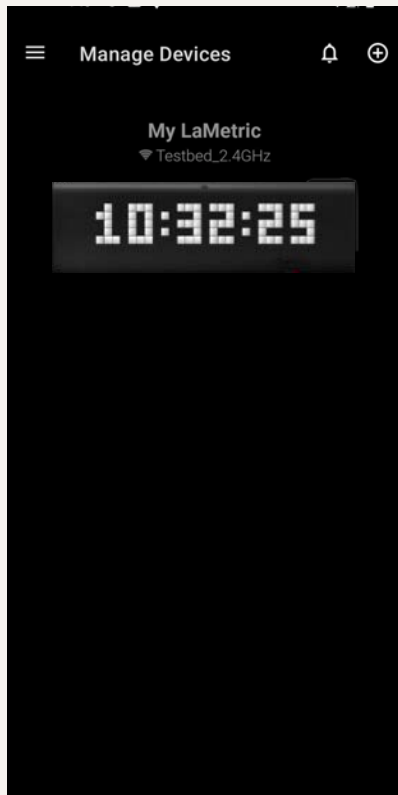
## Lametric Time Mobile App Privacy Settings

Home Screen

Menu

Account

Email Subscriptions

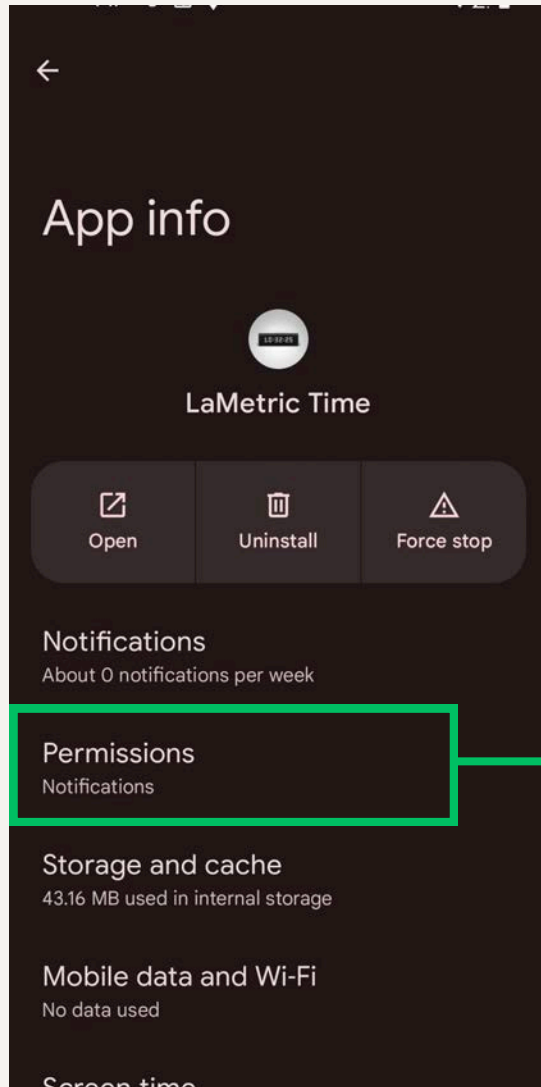


Toggles to control Ads

- No direct privacy settings configurations
- Some confirmation options are available to control Ads.
- Privacy only displays information.

# LAMETRIC TIME SMART CLOCK

## Lametric Time Mobile App Permissions



**Lametric Time mobile app:** Lametric app is a smart clock app that displays customizable information, such as notifications, weather, and calendar events, and integrates with various smart home systems.

Main app  
permissions  
are  
**Notifications.**

# Yale Butoon

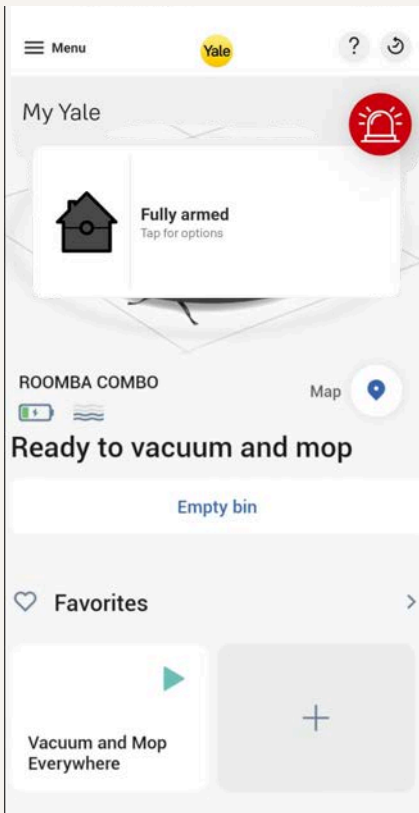
Multi-use  
Button



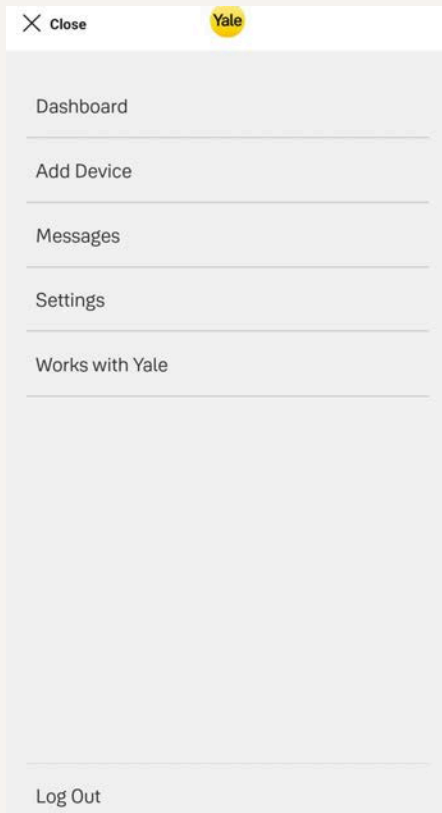
# YALE BUTOON

## Yale Mobile App Privacy Settings

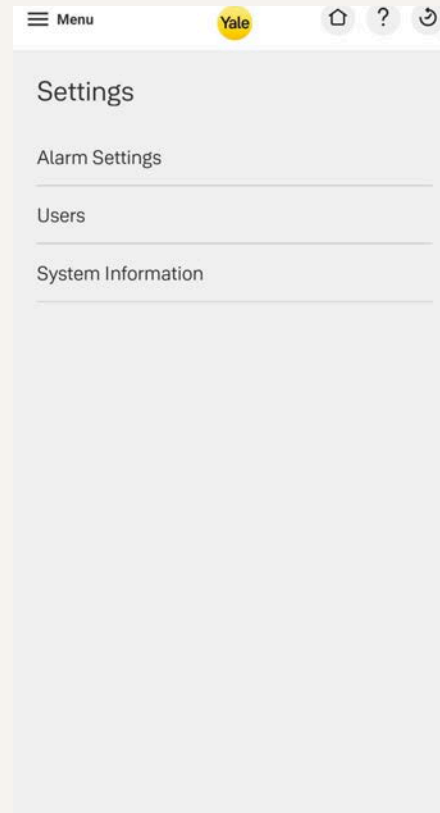
Home Screen



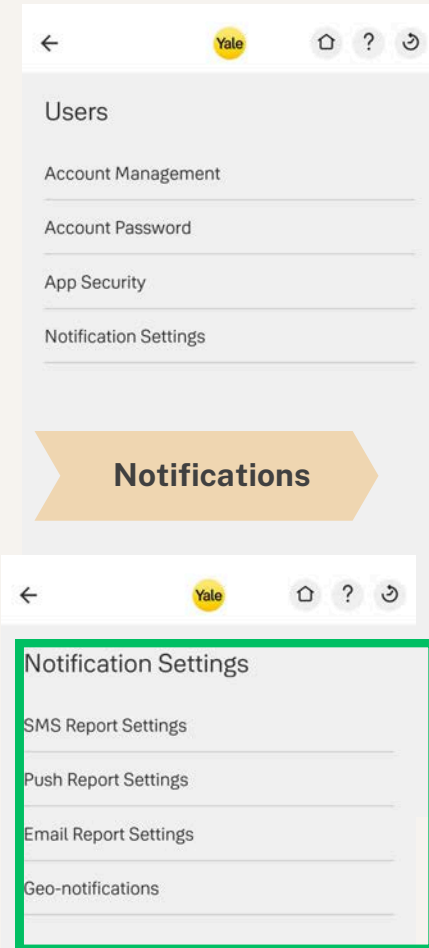
Menu



Settings




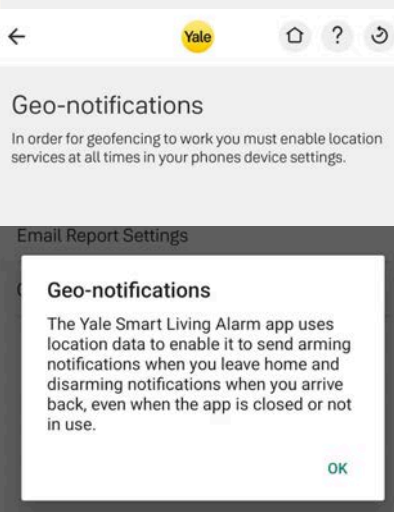
Notifications



Permissions Confirmations

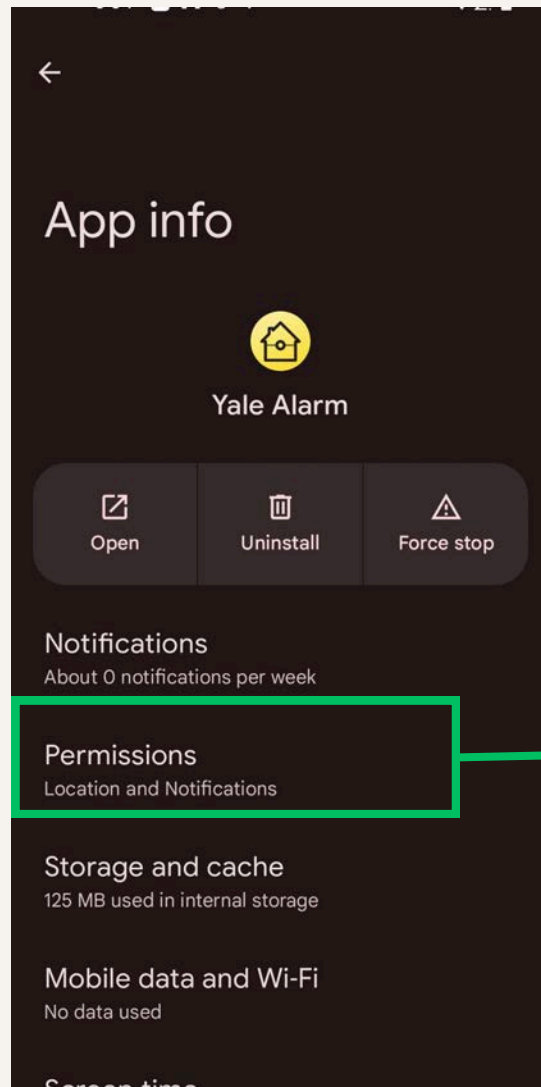
 No direct privacy settings configurations.

 Some confirmation options are available to control notifications.



# YALE BUTOON

## Yale Mobile App Permissions



**Yale mobile app:** Yale Security is a company known for its range of smart home security products, including alarm systems, smart locks, and surveillance cameras.

Main app permissions are **Location** and **Notifications**

# Google Home Smart Speaker

Microphone Control  
Button



# GOOGLE HOME SMART SPEAKER

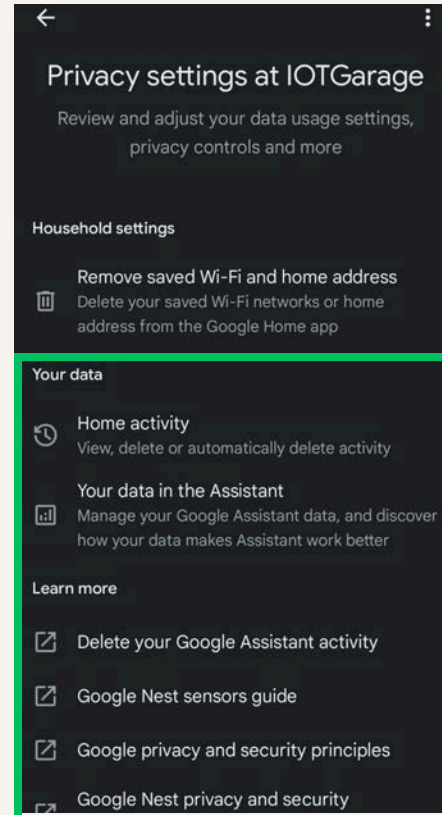
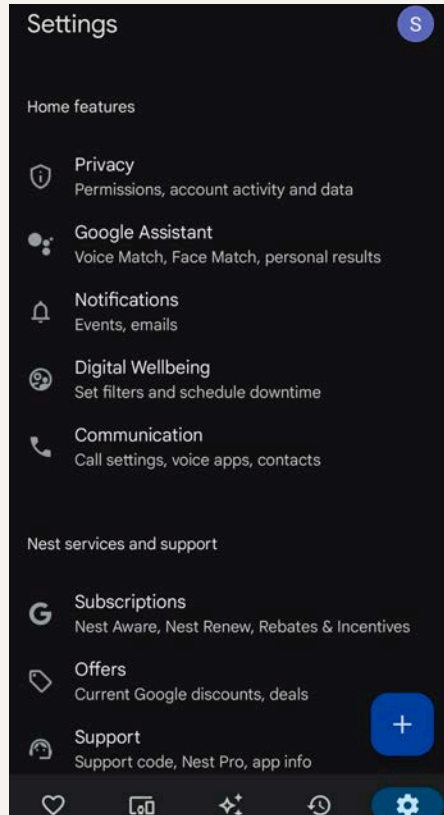
## Home Mobile App Privacy Settings

Home Screen

Setting  
(Scroll down)

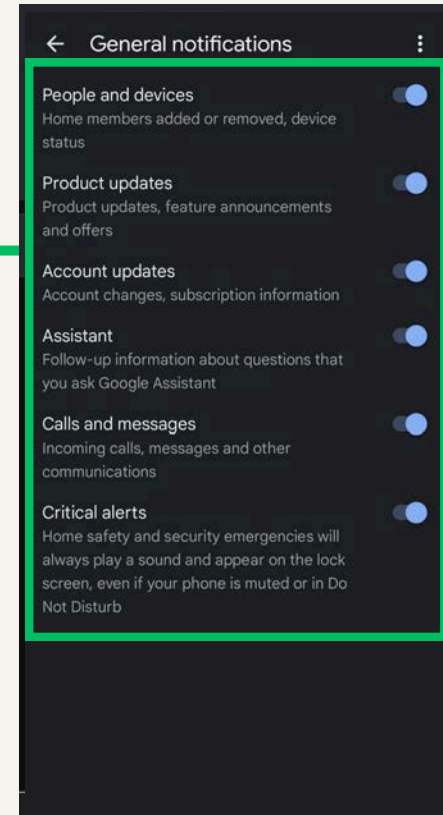
Privacy

Settings -  
Notifications



Toggle to  
control usage  
and Ads.

Control options  
through the  
web.



● Privacy settings configurations (Usage).

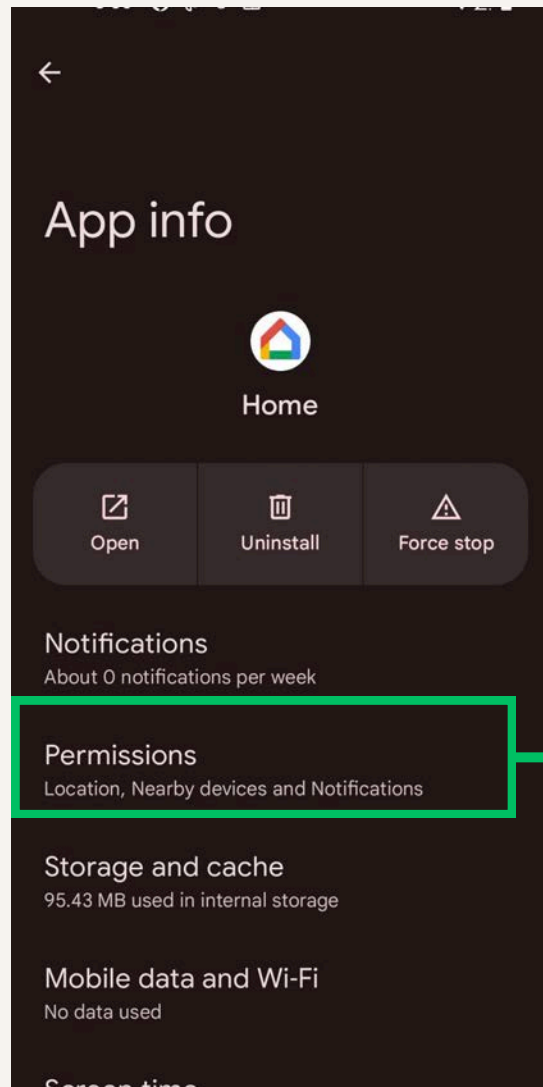
● Configuration options are available to control Ads.

● Privacy provides optins and displays information on the web.



# GOOGLE HOME SMART SPEAKER

## Home Mobile App Permissions



Main app  
permissions are  
**Location and  
Notifications.**



**Home mobile app:** The Google Home app is designed to help users manage, control, and integrate Google smart home devices and compatible third-party products. The app acts as a central hub for managing Google Nest devices and other compatible smart home products.

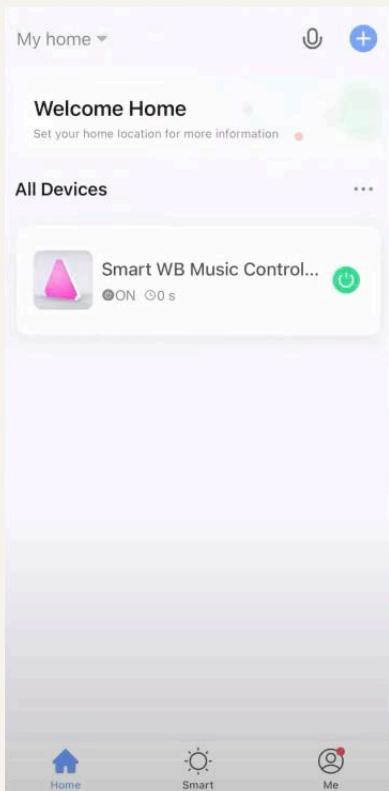
# GHome Bedside Lamp



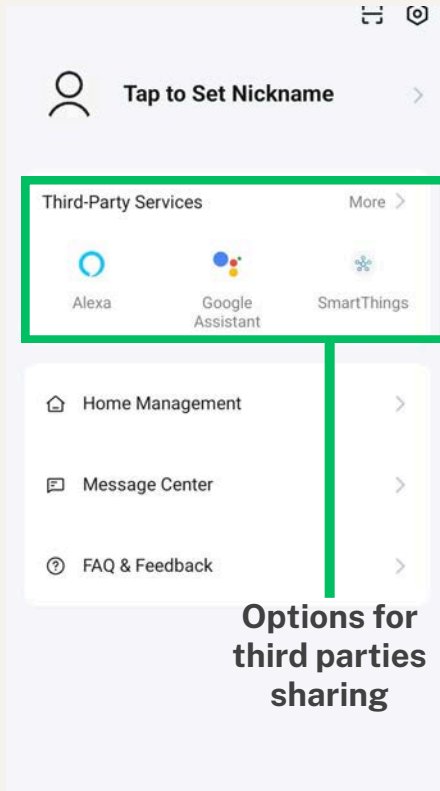
# GHOME BEDSIDE LAMP

## Smart Life Mobile App Privacy Settings

Home Screen

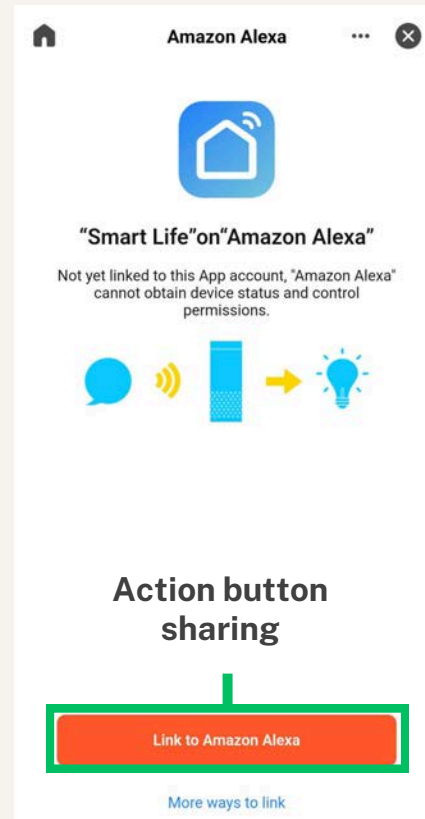


Profile



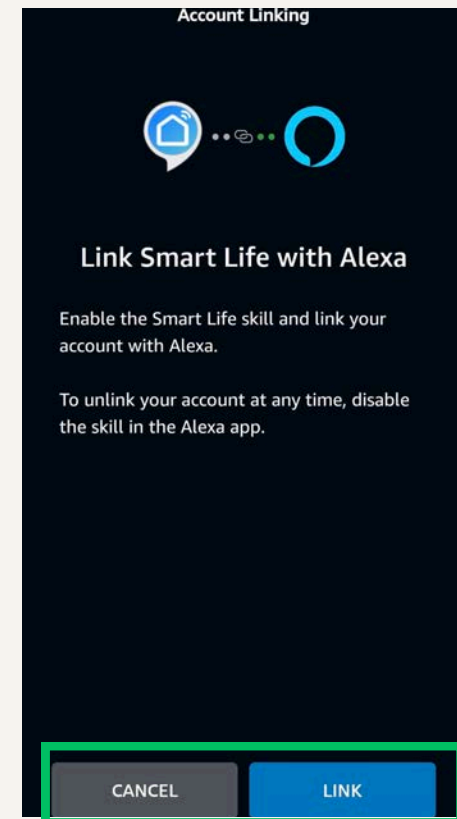
Options for third parties sharing

Third-Party Services



Action button sharing

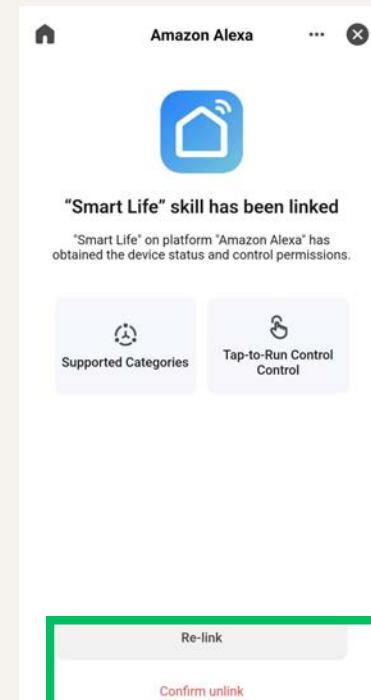
Third-Party Services



Action button sharing confirmation



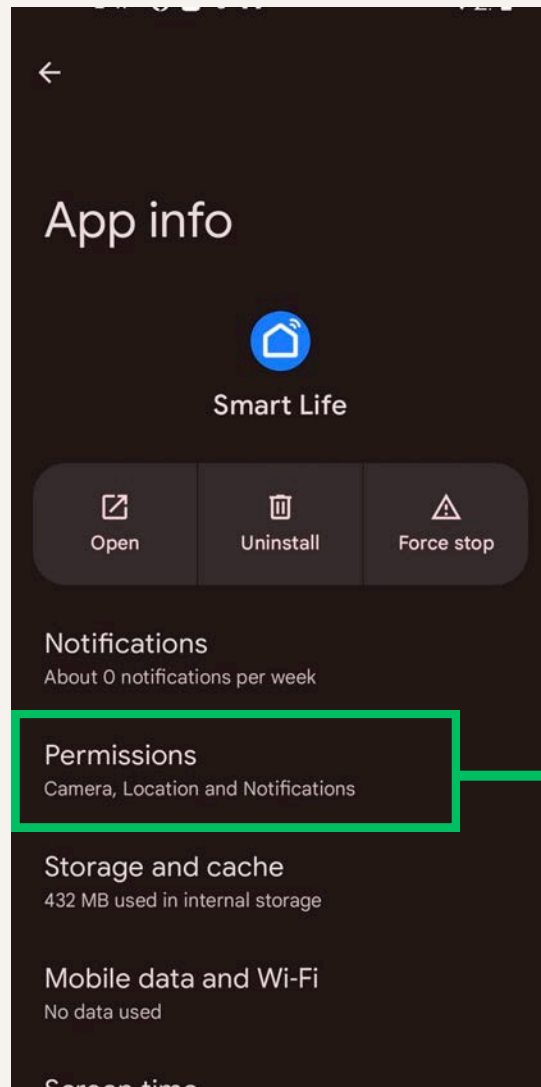
Privacy settings configurations (Sharing).



Action button sharing opt-out option

# GHOME BEDSIDE LAMP

## Smart Life Mobile App Permissions



**Smart Life mobile app:** A versatile smart home app that supports a wide range of devices, enabling control and automation of lighting, security, and more.

**Main app permissions are Camera, Location, and Notifications**

# BenQ Projector

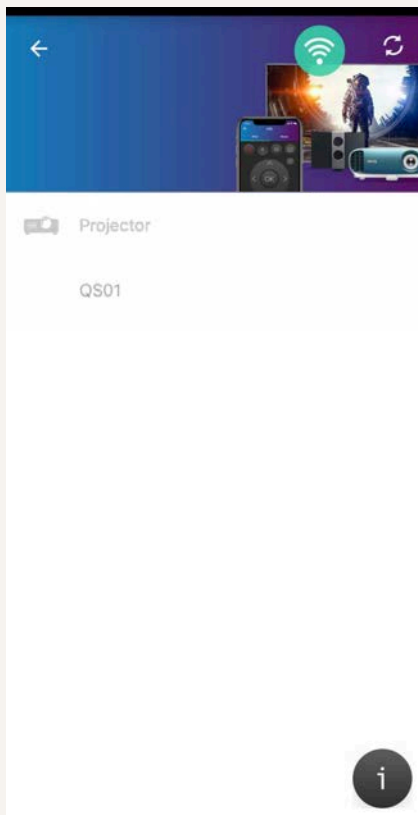


SMart control  
app

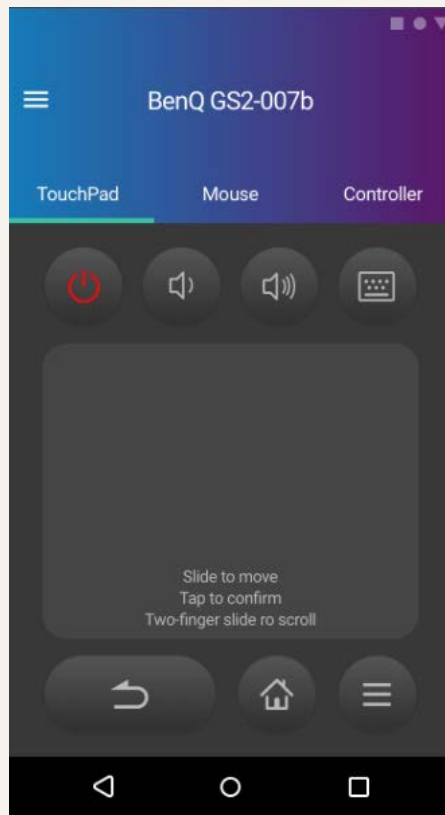
# BENQ PROJECTOR

## BenQ Smart Control Mobile App Privacy Settings

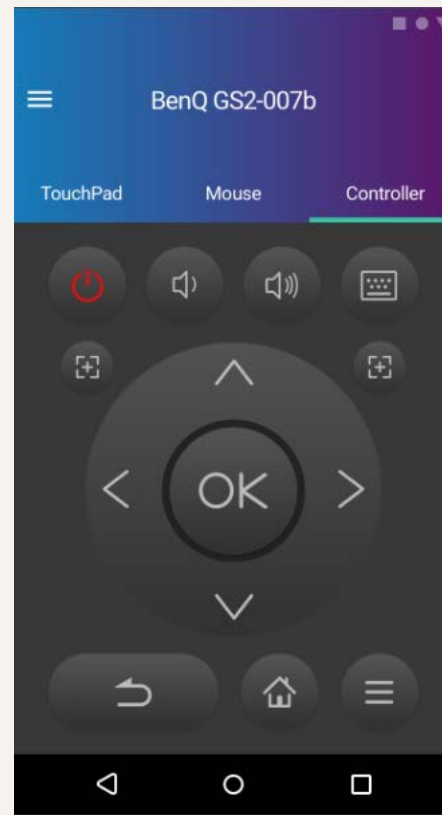
Home Screen



Projector



Options



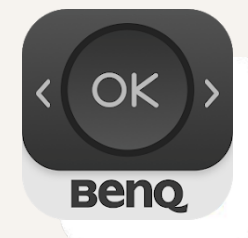
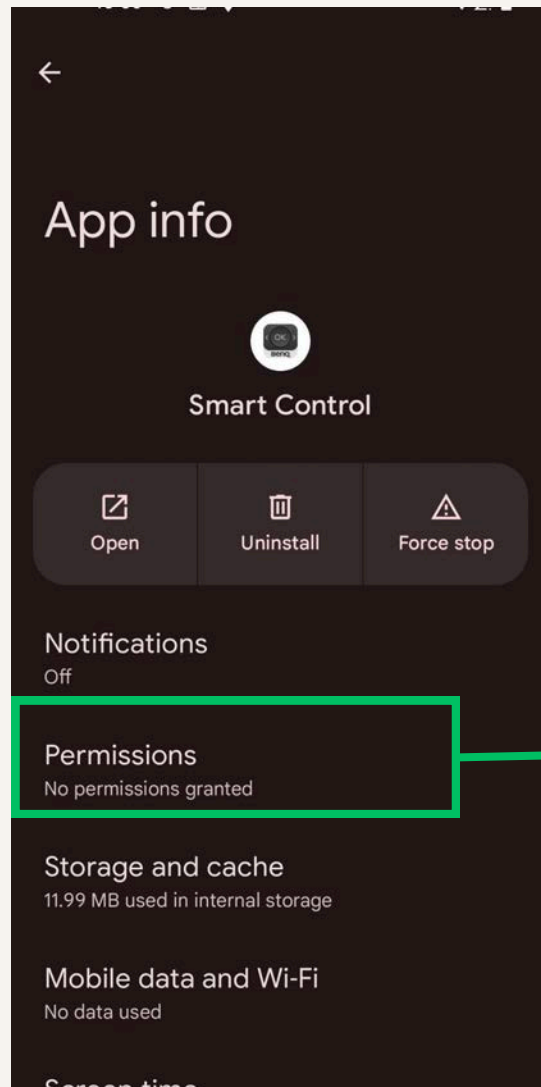
Help



 No direct privacy settings configurations

# BENQ PROJECTOR

## BenQ Smart Control Mobile App Permissions



**BenQ Smart Control mobile app:** The BenQ app is designed to enhance the functionality and user experience of BenQ projectors. The app allows users to control their BenQ projectors using their smartphones or tablets, functioning as a remote control.

**The app does not require any permissions.**

# SAMSUNG Smart Microwave



Cooking Control Buttons

Power Control Buttons

Multi Function Knob and Push Button



# SAMSUNG SMART MICROWAVE

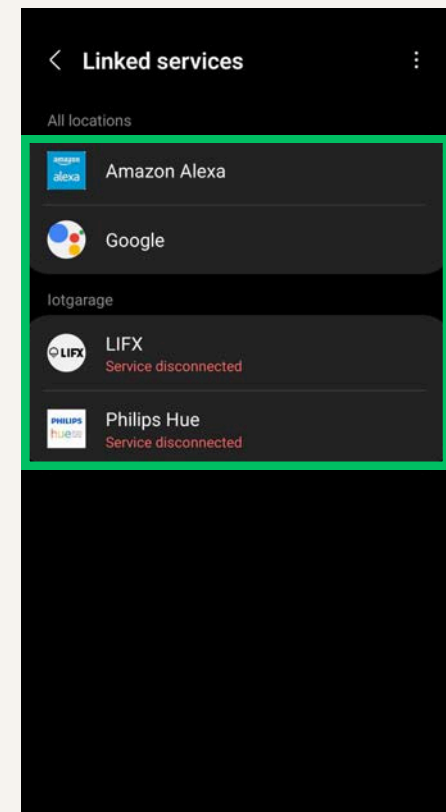
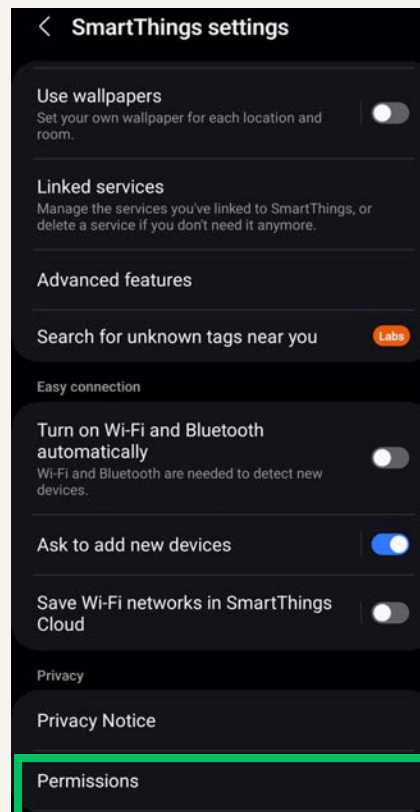
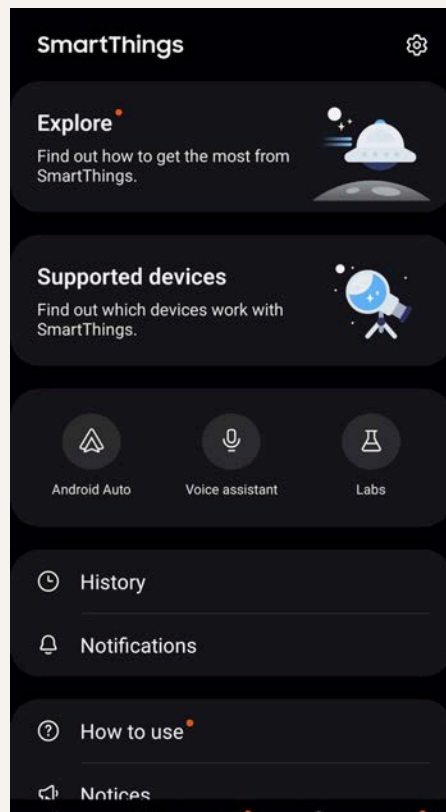
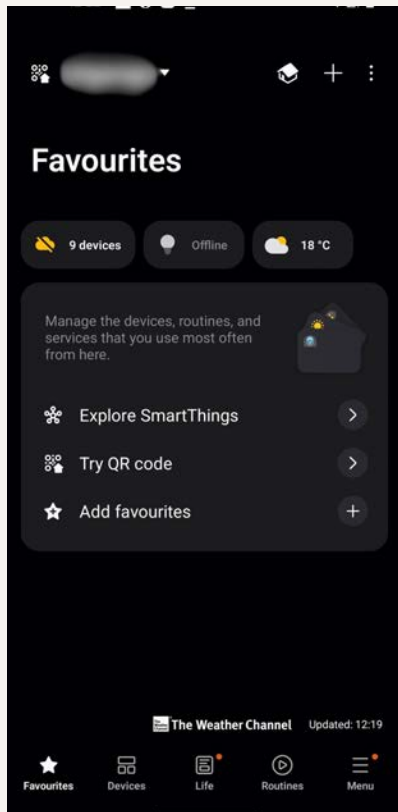
## Smart Things Mobile App Privacy Settings

Home Screen

Menu

Settings  
(Scroll down)

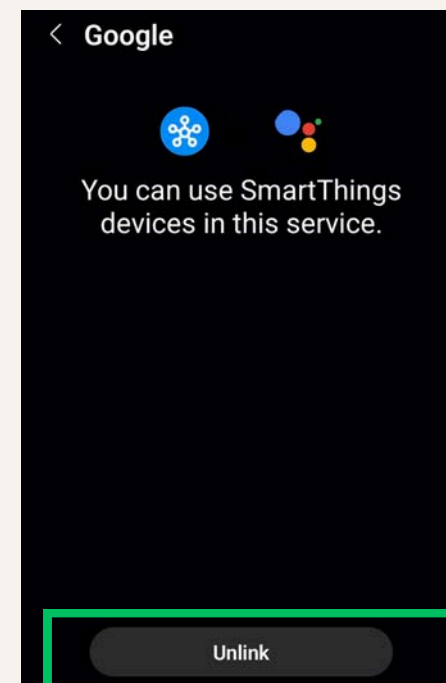
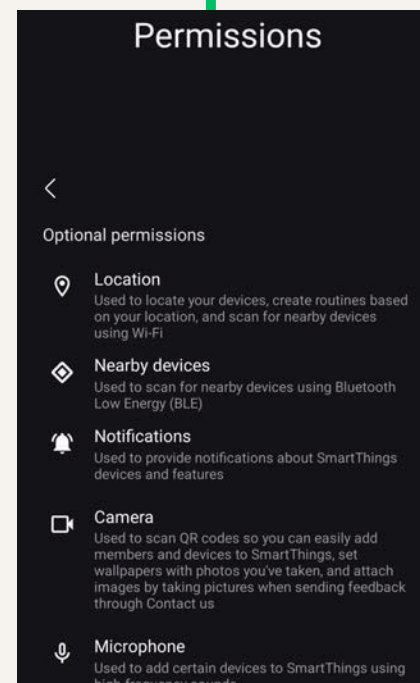
Third-Party  
Services



Options for  
third parties  
sharing

● Privacy settings configurations (Sharing).

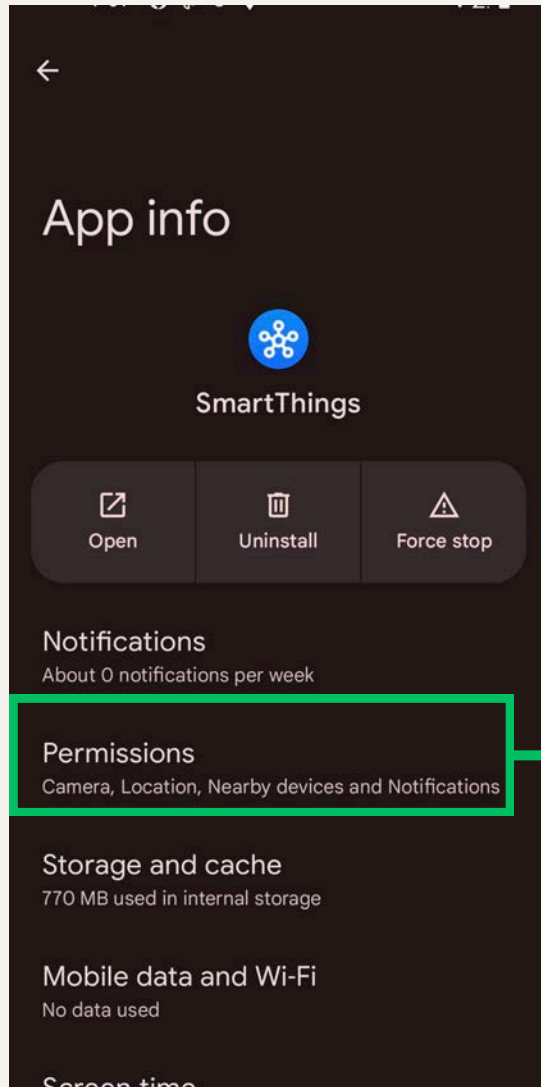
● Privacy and permissions only displays information.



Action button  
sharing opt-  
out option

# SAMSUNG SMART MICROWAVE

## Smart Things Mobile App Permissions



**Smart Thing mobile app:** SmartThings is a smart home platform developed by Samsung. It allows users to connect and control various smart devices and appliances from different manufacturers through a single app. SmartThings supports a wide range of devices and offers automation capabilities.

**Main app permissions are Camera, Location and Notifications**

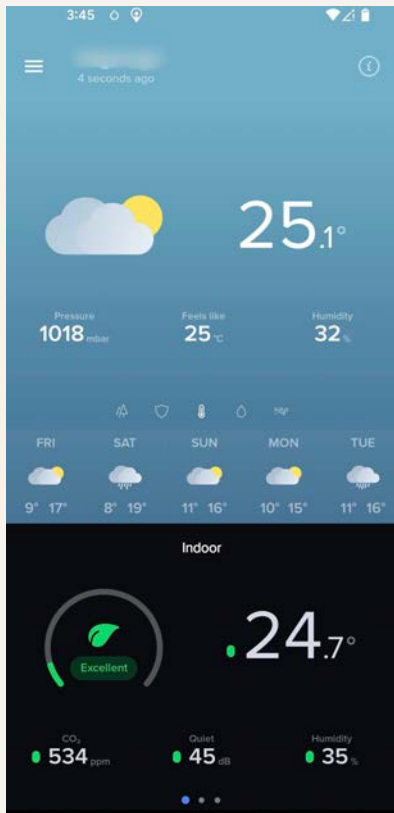
# Netatmo Carbon Monoxide Alarm



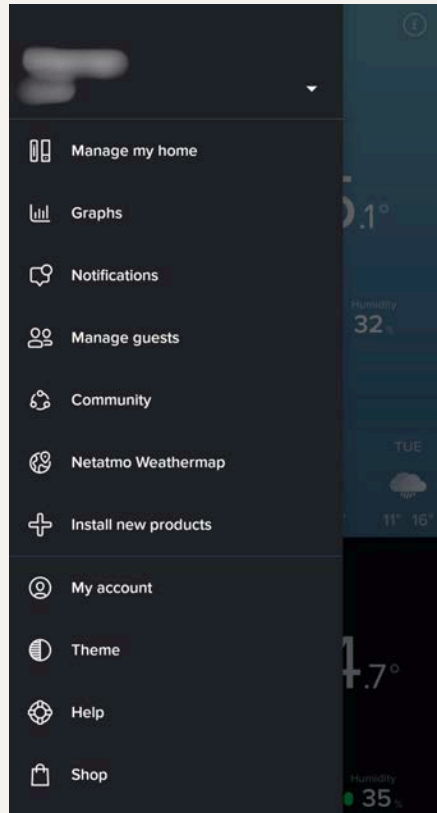
# NETATMO CARBON MONOXIDE ALARM

## Netatmo Mobile App Privacy Settings

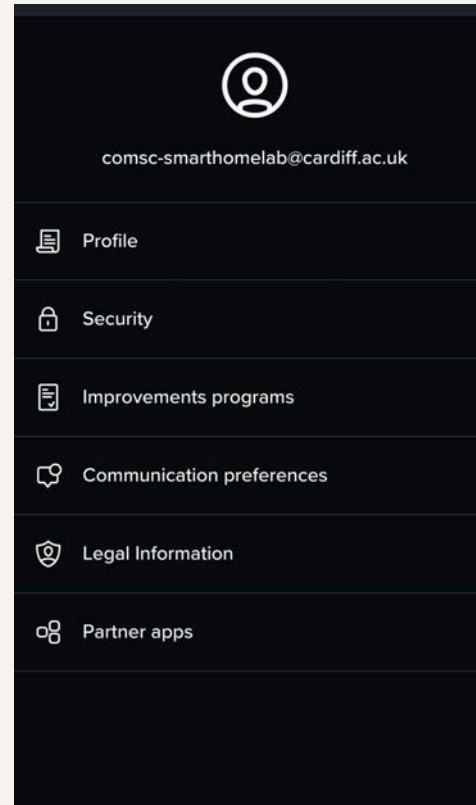
### Home Screen



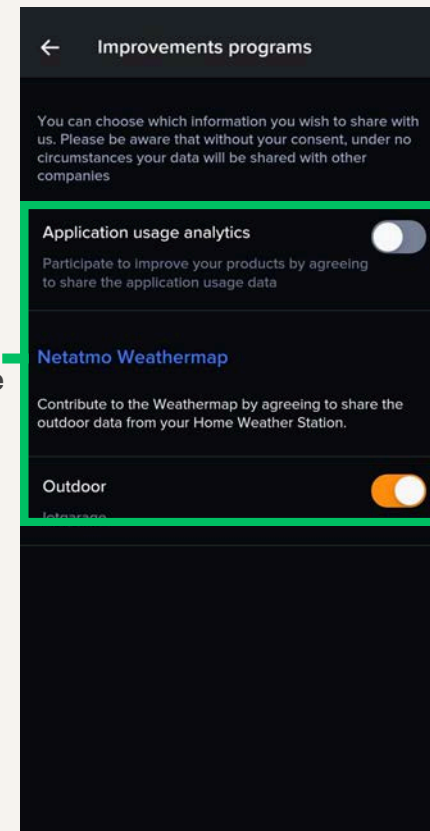
### Menu



### Improvement Programs

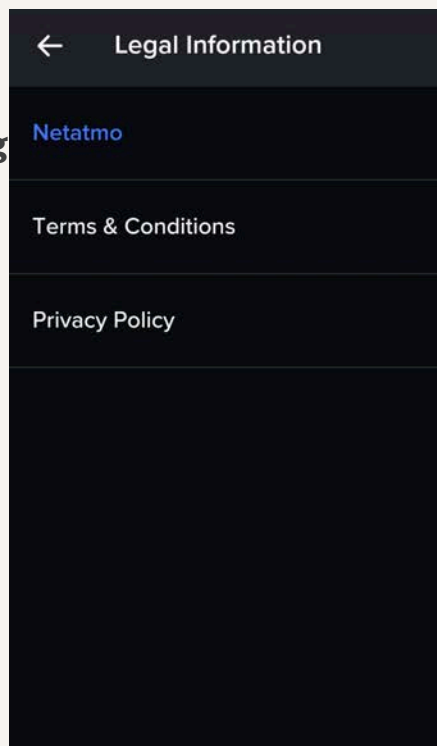


### Improvement Programs



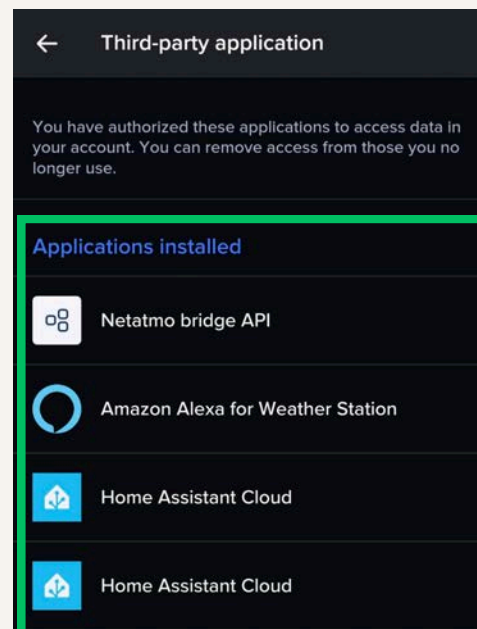
Toggles to control usage

### Legal



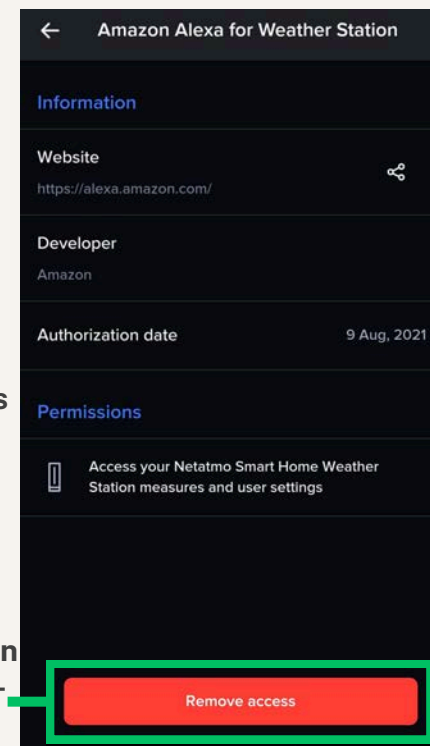
Privacy settings configurations (Sharing and Usage).

Legal only displays information .



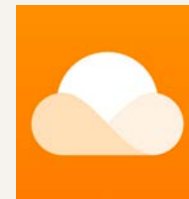
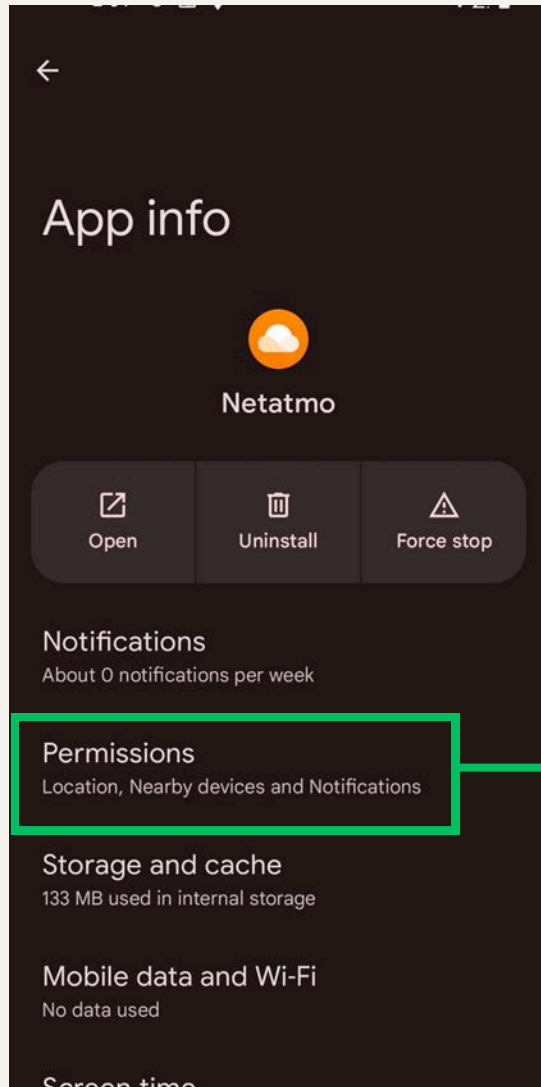
Options for third parties sharing

Action button sharing opt-out option



# NETATMO CARBON MONOXIDE ALARM

## Netamo Time Mobile App Permissions



**Netamo mobile app:** Netamo app is a smart app that provides smart home security and climate products, including weather stations, cameras, and smart thermostats.

Main app permissions are **Location** and **Notifications**.