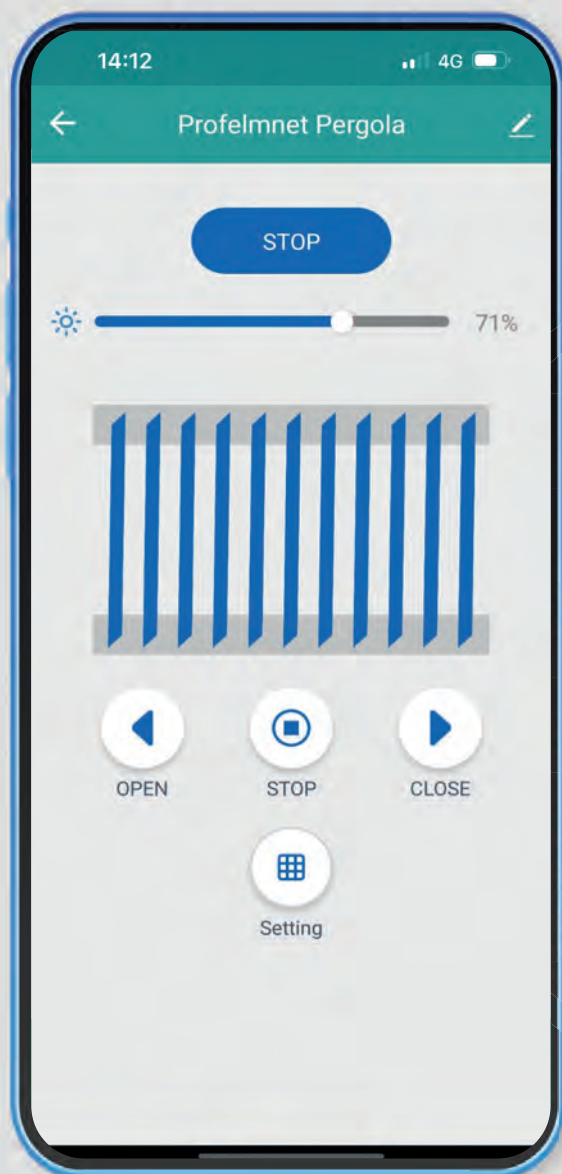




3670 | 3670W

Control Board for Pergola Motor 24V

USER MANUAL

3670 | 3670W Control Board for Pergola Motor 24V

SAFETY INFORMATION

Please read these instructions carefully before installing, configuring, or operating this product.

General Instructions

Installation, electrical connection, and commissioning must be carried out exclusively by qualified technical personnel.

- Disconnect the power supply before performing any installation or maintenance work.
- Ensure that the power supply voltage and the motor are compatible with the control board's technical specifications.
- This control board is designed exclusively for controlling 24V DC pergola motors.
- Any use other than that specified is considered improper and may result in hazards or damage.

Operational Safety

- Do not allow children or unauthorized persons to operate the system.
- Always maintain visual contact with the pergola while it is in motion.
- Before operating the system, ensure that no persons, animals, or objects are within the movement area.
- Do not obstruct the movement of the pergola during operation.
- If unusual noise or malfunction occurs, stop using the system immediately and contact an authorized service technician.

Electrical Safety

- All electrical connections must comply with applicable national and European electrical regulations.
- Use cables of appropriate cross-section and insulation rating.
- Do not modify the control board or any safety circuits.
- In the event of a fault, replace components only with genuine spare parts.

Maintenance

- Periodically inspect the pergola mounting, mechanical connections, and the condition of all wiring.
- Remove dust, moisture, and foreign objects from inside the control enclosure.

- Always disconnect the power supply before carrying out any maintenance work.

Technical Specifications

Operating Temperature	: -20°C to +55°C
Control Board Supply Voltage	: 24V DC
Motor Type	: 24V DC
Maximum Motor Current	: 1.5 A
Maximum Motor Power	: 60 W
Maximum LED Lighting Power	: 200 W
Integrated Radio Receiver	: 433.92 MHz
Maximum Number of Remote Controls	: 300
Open Push Button Input	: Yes
Close Push Button Input	: Yes
Step-by-Step Push Button Input	: Yes
Antenna Input	: Yes
Motor Force Adjustment	: Yes
Obstacle Detection	: Yes
Enclosure Protection Rating	: IP56
Control Board Dimensions	: 148 × 50.8 mm
Enclosure Dimensions	: 330 × 75 × 80 mm
Maximum Wi-Fi Users	: Up to 20 users
Compatible Applications	: Tuya Smart Life, Smart Living
Wi-Fi Protocol	: IEEE 802.11 b/g/n, 2.4 GHz / 5 GHz*

*5 GHz compatibility depends on the Wi-Fi module version.



works with
Google Home

works
with



Functional Test Procedure

After installation:

Verify that the pergola moves smoothly without obstruction. Perform five (5) complete opening and closing cycles.

Installation Responsibility

Profelmnet assumes no responsibility for the final installation of the pergola or for any improper or incomplete use of the product.

CE DECLARATION OF CONFORMITY



In accordance with **Directive 2006/42/EC (Machinery Directive)**, the manufacturer: **L. Psarros & Co. OE.** hereby declares that the following product: **3670 – Control Board for 1 24V DC Motor is an automation component and not a complete machine**, and complies with the requirements of the following European Directives: • 2014/53/EU – Radio Equipment Directive (RED) • 2014/30/EU – Electromagnetic Compatibility (EMC) Directive. The product complies with the essential requirements and the applicable provisions of the above Directives. Final installation and commissioning are permitted only when the complete installation has been verified to comply with the requirements of Directive 2006/42/EC (Machinery Directive).

MANUFACTURER CONTACT DETAILS: PROFELMNET L. PSARROS & SIA OE

Address:

11 Proedrou Drakaki Street
17341 Agios Dimitrios
Athens, GREECE

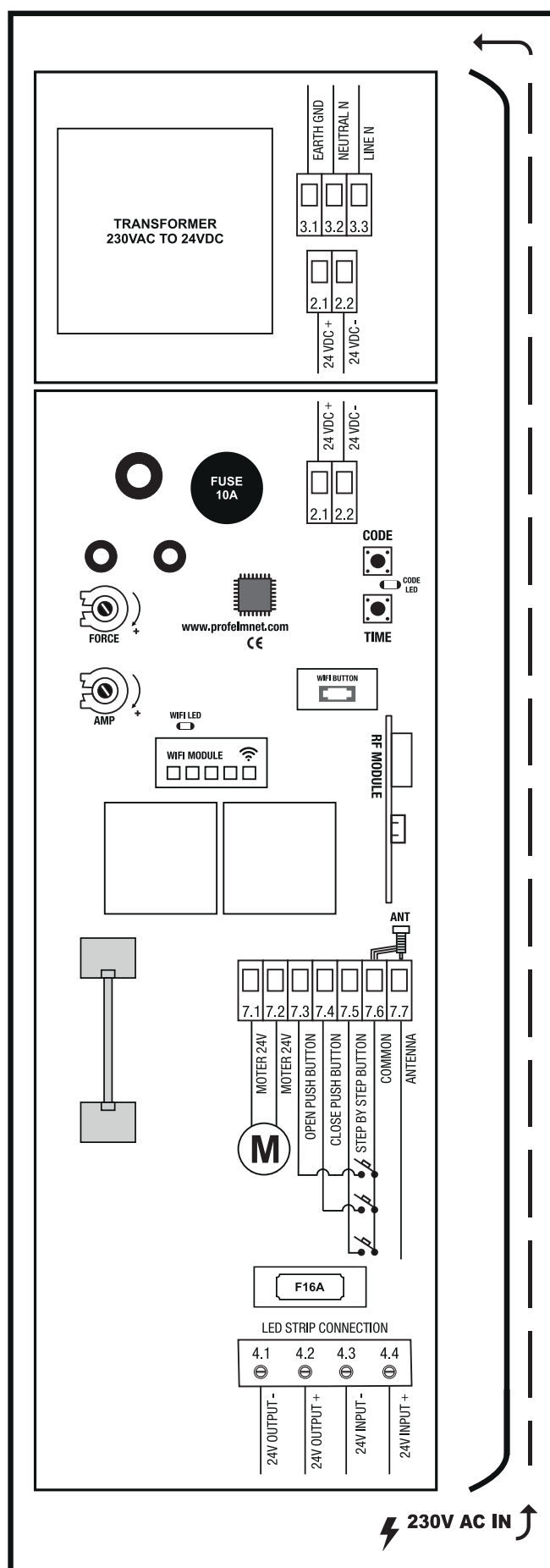
Phone:

+30 210 9850244
+30 697 4894108
(Technical Support)

Email:

info@profelmnet.com

3670 | 3670W Control Board for Pergola Motor 24V



ELECTRICAL WIRING

Motor

Terminal	Description
7.1	Motor 24V +
7.2	Motor 24V -

Commands Input

Terminal	Description
7.3 + 7.6	Open Push Button
7.4 + 7.6	Close Push Button
7.5 + 7.6	Step-by-Step Push Button

Common

Terminal	Description
7.6	Common

Antenna

Terminal	Description
7.6	Shield Antenna 433,92MHz
7.7	External Antenna 433,92MHz

Led Light Connection

Terminal	Description
4.1	24V Output -
4.2	24V Output +
4.3	24V Input -
4.4	24V Input -

PRODUCT VERSIONS

✳️ **3670:** 24V DC Control Board with 433.92MHz RF Receiver

✳️ **3670W:** 24V DC Control board with 433.92MHz RF Receiver & Integrated Wi-Fi

Optional Accessory

✳️ **WiFi-PER-70:** WiFi Module – Adds Wi-Fi connectivity to the 3670 control board.

- Wi-Fi Frequencies: 2.4GHz and 5GHz
- Installs directly into the Wi-Fi Module of the 3670 control board to enable Wi-Fi connectivity

Compatible Remote Controls

- **PSR3670/3670W:** Rolling Code Remote Control 433.92MHz
- **PN3670/3670W:** Rolling Code Remote Control 433.92MHz
- **PS3670/3670W:** Fixed Code Remote Control 433.92MHz
- **PRE3670/3670W:** Multi-Channel Remote Control 433.92MHz

3670 | 3670W Configuration

24VDC Power Supply

Check all wiring connections and power the controller with 24V DC, 60W. Verify that the yellow status LED remains continuously ON.

Motor Connection Connect the motor to terminals 7.1 + 7.2

Remote Control Memory Erase Press the CODE button. The red LED will illuminate. Keep the button pressed until the red LED turns completely OFF. All stored remote controls will be deleted.

Adding a Remote Control Press the CODE button and release it immediately when the red LED turns ON. Press the button on the new remote control. The red LED will flash briefly, indicating successful storage of the remote control.

Programming a Remote Control for LED Lighting Control Press the CODE button. The red LED will illuminate steadily. Continue holding the button until the red LED begins flashing. Release the CODE button, then press the desired button on the remote control to assign LED strip control. Each successive press of the programmed button cyclically increases or decreases the LED strip brightness. The red LED will flash briefly to confirm successful programming.

Operating Time Adjustment Move the pergola to the fully closed position. Press and hold the TIME button. After approximately 5 seconds, the pergola will begin to open. Continue holding the TIME button until the pergola reaches its fully open limit position.

Important: Install the mechanical stop ring supplied with the motor.

Motor Force Adjustment The FORCE potentiometer adjusts the motor operating force.

Obstacle Detection (Amperstop) Adjustment The sensitivity of the obstacle detection system is adjusted using the AMP trimmer. Increasing the trimmer setting increases the sensitivity of the obstacle detection function.

Wireless Programming of New Remote Controls The pergola must be either fully closed or fully open.

Stand close to the controller and press the button on a remote control that already operates the pergola. Keep the button pressed until the pergola stops moving (approximately 6–7 seconds).

Immediately release the button and press only the button on the new remote control.

Verify that the new remote control operates correctly. If it does not, repeat the procedure from the beginning.

The controller memory can store up to 300 remote controls.

Remote Control Compatibility Depending on the model installed:

PS Fixed Code 433.92 MHz system. Compatible with 433.92 MHz Fixed Code remote controls.

PSR / PN Rolling Code 433.92 MHz system. Compatible only with remote controls using the same unique rolling code.

Where can I find the Unique Rolling Code?

A white Profelmnet production label is attached to the controller. The unique rolling code is printed on this label and must be used when selecting compatible remote controls.

Download the Tuya Smart Application



CONNECTION WITH TUYA SMART APPLICATION

Connect your smart device to your Wifi network and download the Tuya Application through Google Play or Apple store



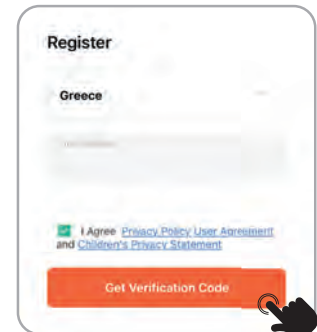
Mobile Phone



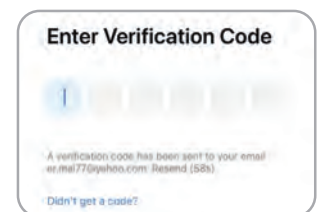
Wireless Router



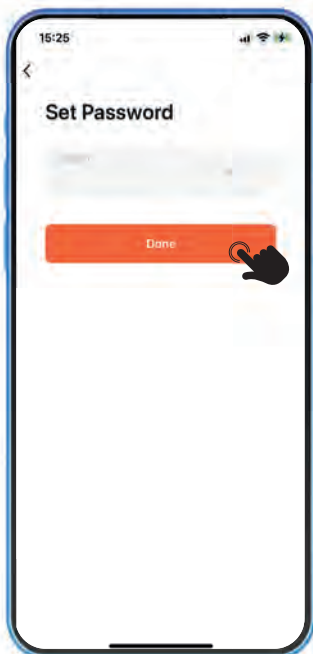
1 Press Sign Up for new account



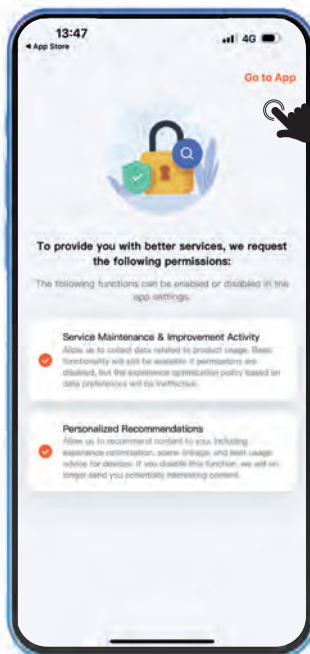
2 Fill your email and press Send verification code



3 Send Verification Code



4 Set your Password



5 Go to application



6 The account has been successfully created

Compatible with:



Compatible with:

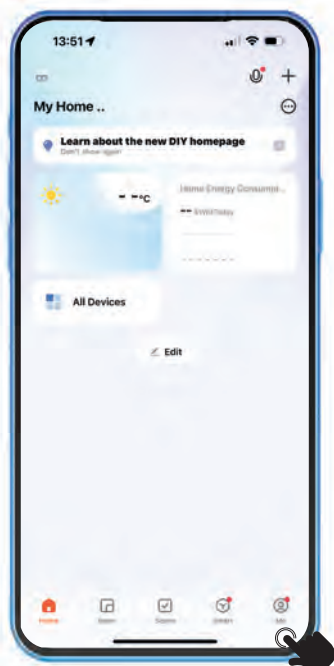


Powered by:

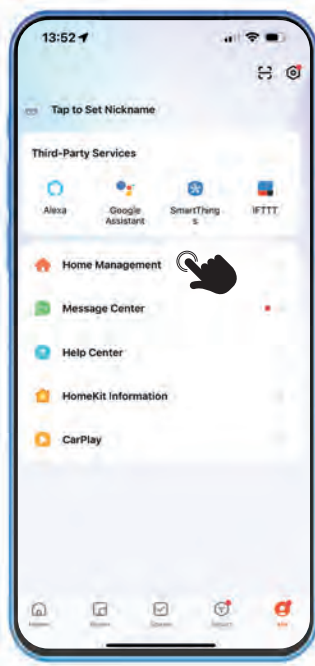


3670W Control Board for Pergola Motor 24V
is certified by:





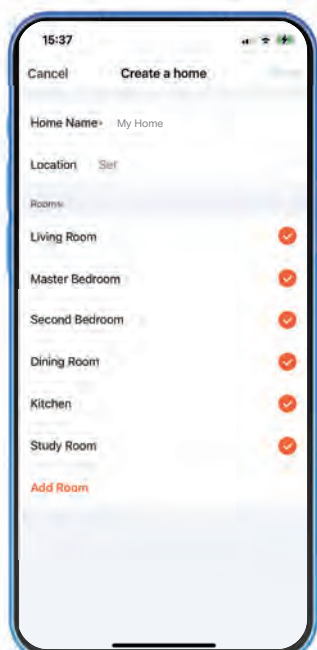
1 Select Profile



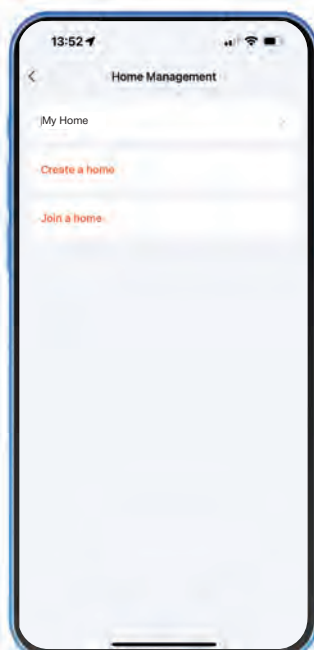
2 Select Home Management



3 Create your HOME



4 Give a name to your HOME



4 Your HOME is created

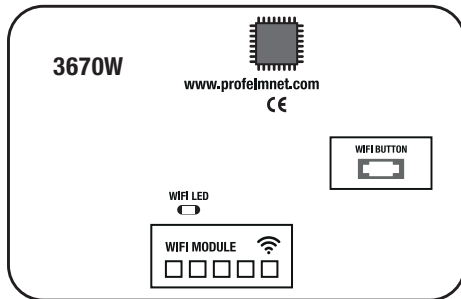


Pairing with the 3670 | 3670W control board



WiFi COMPATIBILITY

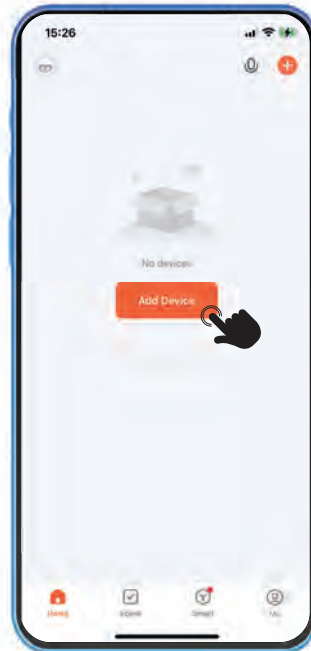
3670 | 3670W control board is compatible with 2.4GHz and 5GHz.



Power the 3670 | 3670W control board

The blue LED indicator of the board will start flashing rapidly.

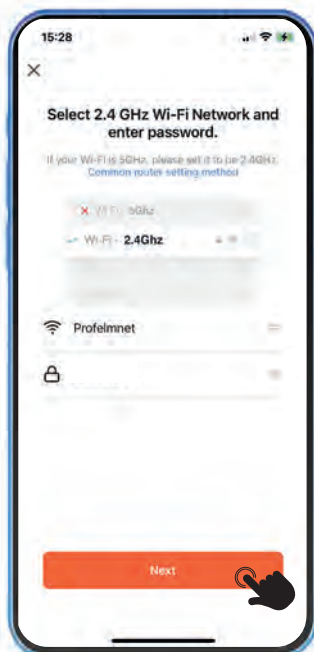
Otherwise, hold and press firmly on the WiFi button of the board until the blue LED indicator starts blinking



1 Go to Tuya application and press Add Device



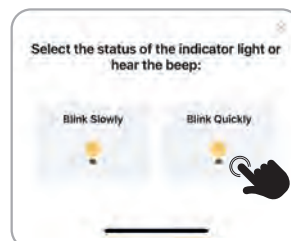
2 Choose the GARAGE DOOR OPENER (Wi-Fi - BLE)



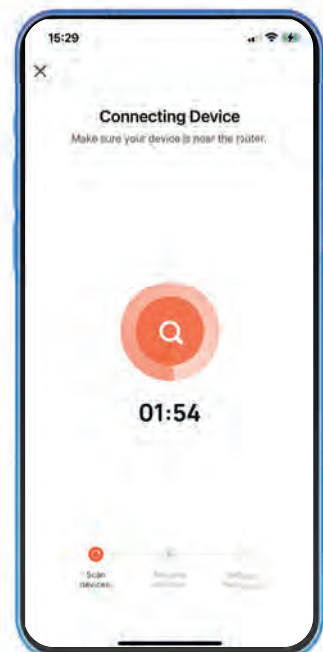
3 Complete the Username and Password of the WiFi network



4 Press the confirmation messages successively



5 Choose Blink Quickly



6 Connecting Device



7 The 3670 | 3670W control board is ready

Home Page 3670 | 3670W

* **Command Button**
Open | Stop | Close

LED Brightness Adjustment *

Settings *

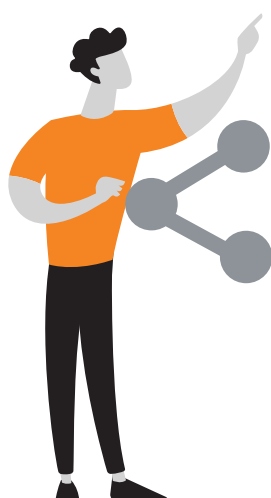
All devices
main page

Quick Command

 **Green:** Is open
 **Grey:** Is closed



Different type of users



1. Home owner:

The user who has paired the device with the home router and has the entire management of the device.

2. Administrator:

The user who is able to make adjustments on the board

3. Common User:

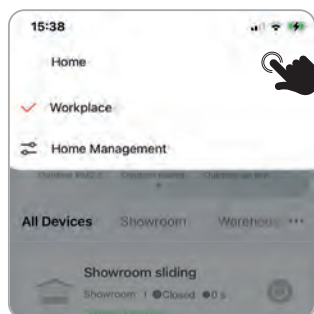
The user who is able to manage the device but not able to make adjustments



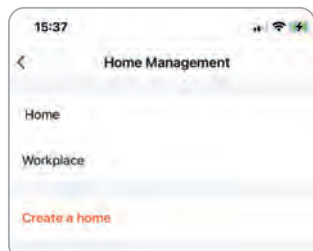
The home owner can divide the control board into administrators or users depending on the degree of access they want to have to the control board

TIP: The user you will share access with must have a TUYA SMART app account.

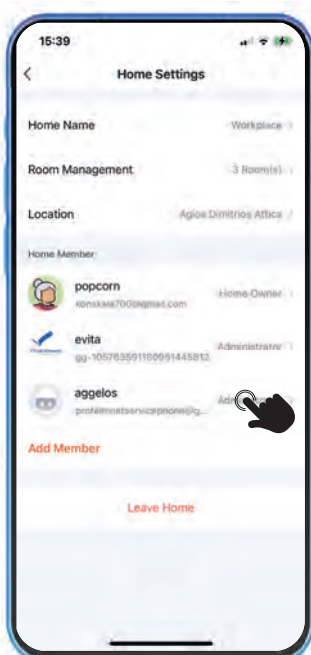
Sharing a HOME



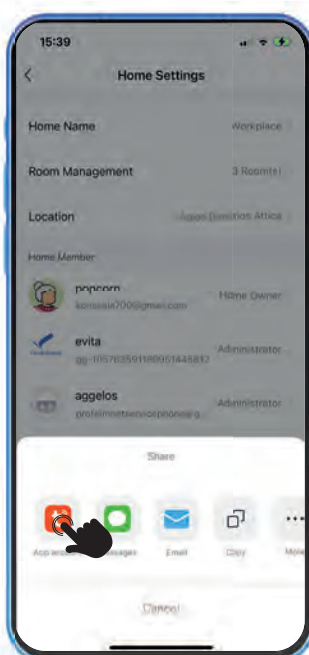
1 On main page, select the home management



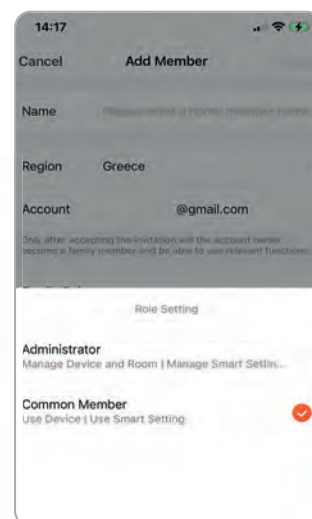
2 Choose the home you want to share



3 Choose Members Addition



4 Choose the Tuya account



5 Complete the Tuya account you want to share and select the type of user you want



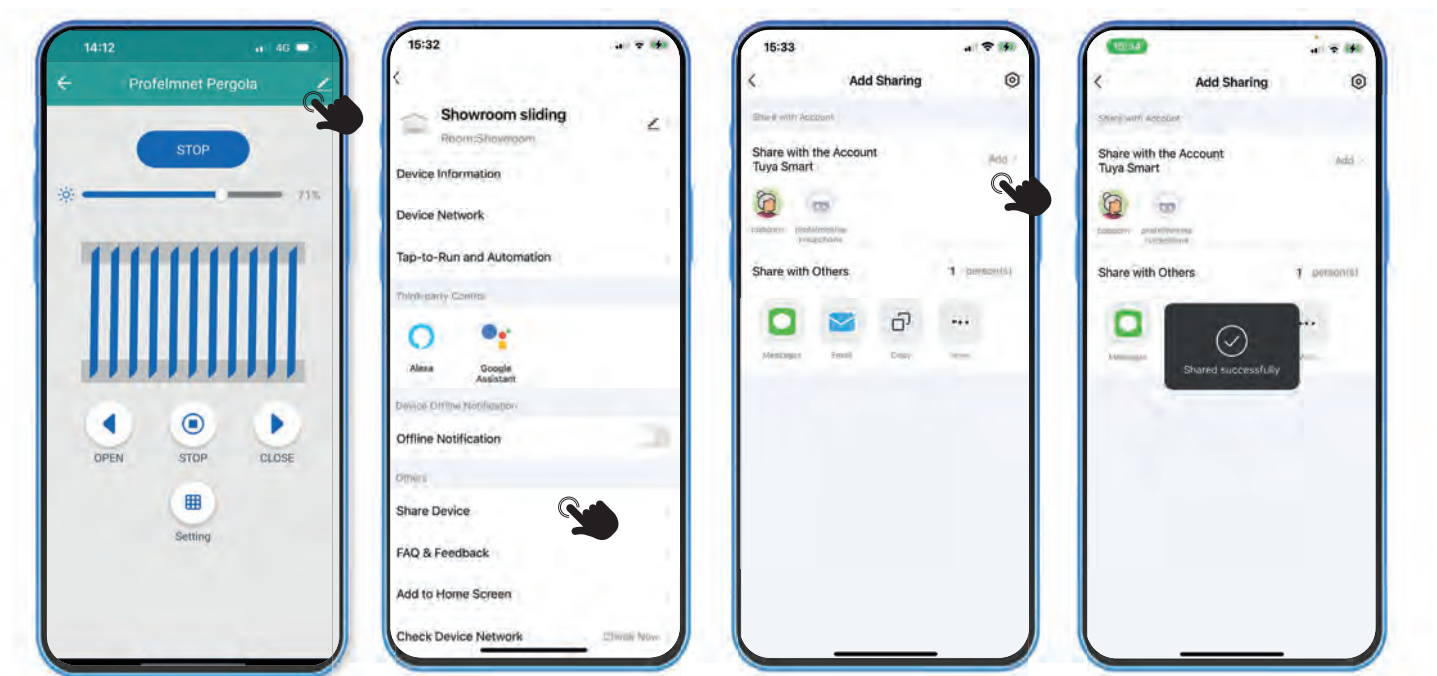
6 The new account is added

Device Sharing



SHARE ACCESS

You can share access with family members or friends, allowing them to control the devices you want



1 Go to home page and select the command as the image above shows

2 Select Share Device

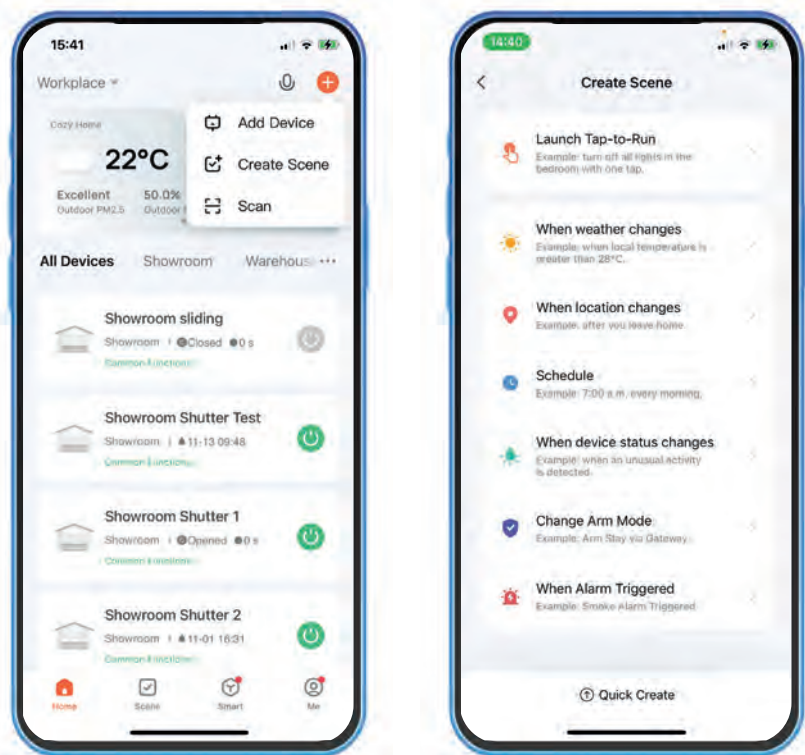
3 Choose ADD and type the TUYA account you want to share

4 The device sharing is complete. The new user is able to see your device

Create scenarios



You can set rules and schedules for your devices, making your home more efficient and convenient...



1 Select the + on main page and choose CREATE SCENE

2 Set the rules or scenarios you want based on your needs

Google Home connection

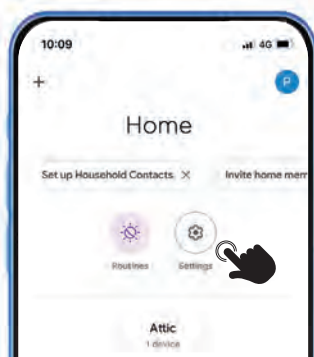


+

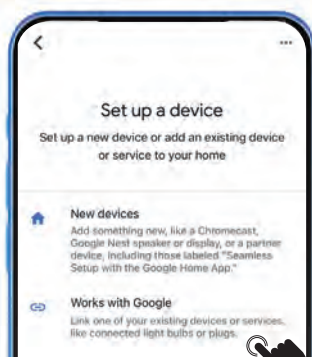


1 Download the Google Home application from Apple Store or Google Play. Create an account.

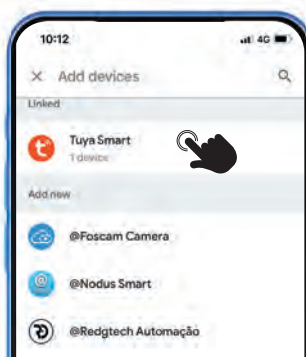
2 Synchronize the Tuya Smart application with Google Home



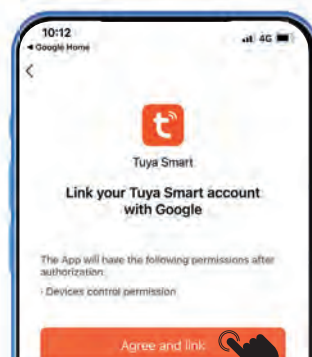
3 Open Google Home and press Settings



4 Select Works with Google



5 Open Google Home and find the Tuya Smart application



6 Press Agree and link

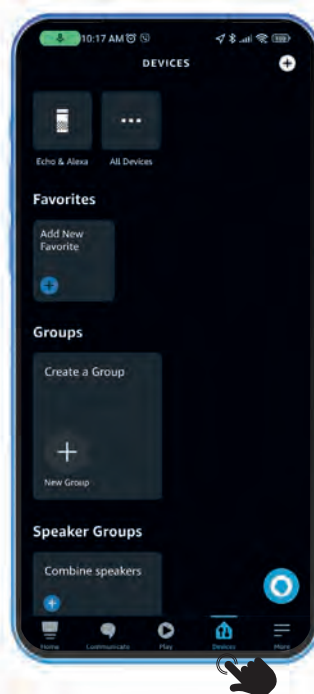
Alexa connection



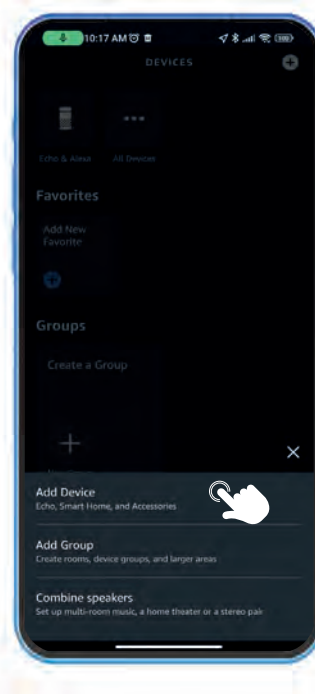
+



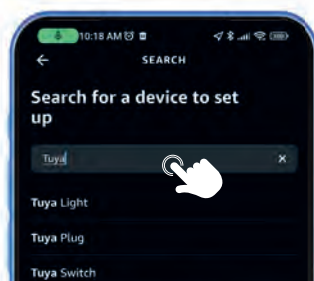
1 Download the AMAZON ALEXA from Apple Store or Ggoogle Play. Create an account



2 Select Devices



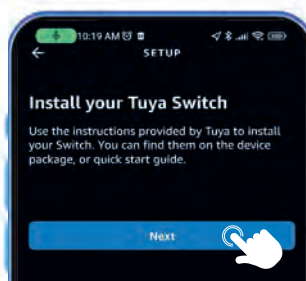
3 Choose Add new Device



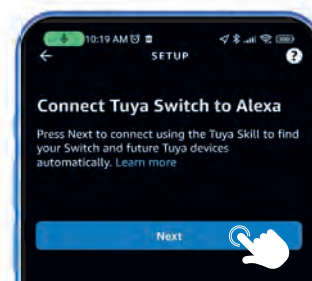
4 Find the Tuya Smart device (Tuya Switch)



5 Choose and press NEXT



6 Install and press NEXT



7 The device is added in AMAZON ALEXA



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