

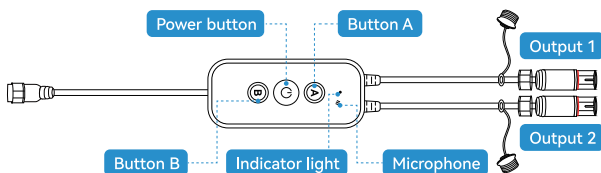


User Manual

S1070 Control Box with WLED

The control box is the central component of ASAHOM Permanent Outdoor Lights. With the control box, you can control your lights remotely and easily create a wide variety of lighting effects, unlocking endless possibilities for your eaves lighting.

At glance



Button Functions

- ON/OFF Button: Press briefly to turn the lights on or off.
- Press and hold for more than 5 seconds to restore factory settings.
- A Button: Single press to change the color.
- B Button: Single press to switch between different lighting modes.

Indicator Light

- Blinking blue: Device is in pairing mode
- Solid blue: Device is successfully connected to the network
- You can also turn off the indicator light via the app settings

Using the ASAHOM App

Download ASAHOM APP

Download the ASAHOM App from the App Store (iOS) or Google Play (Android).

- Free to use — No charges required
- If you see any charges, you may have downloaded the wrong app
- Scan the QR code below to get the correct version:



App Icon



QR Code

Pairing Your Light with the ASAHOM App

What You Need

- A Wi-Fi router that supports 2.4GHz and 802.11 b/g/n (5GHz is not supported)
- A smartphone or tablet running iOS 8.0+ or Android 4.3+
- Before pairing, connect all light sections and plug them in to confirm they work properly

How to Pair

1. Turn on Bluetooth, and connect your phone to a 2.4GHz Wi-Fi network
2. Keep your phone within 5 meters (16.4 ft) of the control box
3. Open the ASAHOM App, tap the "+" icon in the top right corner
4. The device should appear automatically in the list
5. If no device appears within 2 minutes:
 - Press and hold the ON/OFF button on the control box for 5+ seconds
 - The blue indicator light will begin flashing
 - Return to the app and try again
6. Tap the device and follow the on-screen instructions to finish pairing
7. After entering the device page, please set the correct number of lights.

Notes:

- Flashing blue light on the control box means it's in pairing mode
- If the light is not flashing, hold the ON/OFF button again for 5 seconds
- After pairing, please set the correct number of lights in the app. This ensures the lighting effects work properly across all sections

WLED Mode Instructions

How to Enter WLED Mode

You can switch to WLED Mode in two ways:

Method 1 Using the Controller Button

- Press and hold Button B on the controller for more than 10 seconds.
- When the indicator light turns green, it means the controller has entered WLED Mode.

Method 2 Through the App Settings

You can also enter WLED Mode via the Settings page in the ASAHOM App, without pressing the physical button.

Notes:

Once WLED Mode is enabled:

- The device will go offline in the ASAHOM App.
- Controller buttons will be temporarily disabled.
- To return to ASAHOM Mode, press and hold Button B again for 10+ seconds until the indicator light turns back to blue.

How to Connect to WLED

Once the controller has entered WLED Mode:

- On your smartphone, search for a Wi-Fi network named WLED-AP
- Connect to it using the default password: wled1234
- Once connected, your phone should automatically open the WLED control interface.
- For detailed usage instructions, visit the official WLED project site:
<https://kno.wled.ge>

How to Properly Set LED Current in WLED

To ensure safe and stable performance, you must configure current settings based on the number of LEDs connected.

Hardware setup

LED outputs:

1: FW1906 GRBCW

mA/LED: Custom ▾

max. mA/LED: 85 mA

PSU: 1008 mA

Color Order: GBR ▾ Swap: WW & CW ▾

Start: 0 Length: 72

Data GPIO: 19

Reversed: ☒

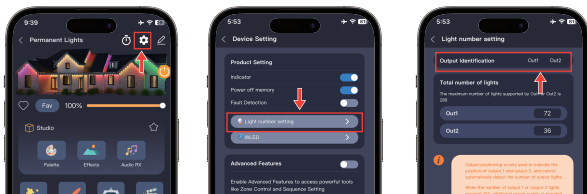
Skip first LEDs: 0

Off Refresh: ☐

Auto-calculate W channel from RGB:

Accurate ▾

Step 1 Determine the Number of LEDs



Before configuring, use the Output Identification feature in the ASAHOM App to count how many LEDs are connected to Out1 and Out2.

Step 2 Calculate PSU Value

Use 14mA per LED as the base.

Length=Number of LEDs

PSU = Number of LEDs × 14mA

Example:

- Out1 with 72 LEDs → Length=72; PSU = 72 × 14 = 1008mA
- Out2 with 36 LEDs → Length=36; PSU = 36 × 14 = 504mA

Step 3 Set WLED Parameters

In WLED channel settings:

- Set max. mA/LED to 85mA
- Set PSU to your calculated value (e.g., 1008mA / 504mA)

WLED Additional Notes

- WLED is developed by the open-source WLED community.
If you encounter any issues or want to report bugs, please visit the WLED community for support.
- Controller buttons are disabled in WLED Mode.
You cannot use the controller's physical buttons to control the lights while in WLED Mode.

Can't find your WLED device? Try the following:

- Open the wled-native App and check whether the device appears in the list.
- Make sure your phone and the WLED device are connected to the same local Wi-Fi network.
- If the device still doesn't show up, try power cycling (turning off and on) the device, then search for the WLED-AP hotspot again.

Open Source Notice

This product includes software components based on the open-source project WLED.

– ASAHOM App Integration

The default firmware embedded in this product is developed based on WLED v0.14.4, which is licensed under the MIT License.

Custom modifications have been made to enable seamless integration with the ASAHOM App and provide enhanced smart lighting features.

– Optional Native WLED Mode

This product also offers access to a native version of WLED, available for advanced users through developer tools or flashing.

Please note that WLED versions after v0.14.4 are licensed under the EUPL-1.2 (European Union Public License v1.2).

Ensure you review and comply with the applicable license terms before modifying or redistributing such versions.

The WLED project is created and maintained by Christian Schwinne and the WLED contributor community.

Learn more or access the source code at:

<https://github.com/Aircoookie/WLED>

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Customer Support & Warranty

We're here to help! If you experience any issues or need assistance with this product, please don't hesitate to contact us.

Contact Channels:

 Email: support@asahom.com

 Website & Knowledge Base: www.asahom.com