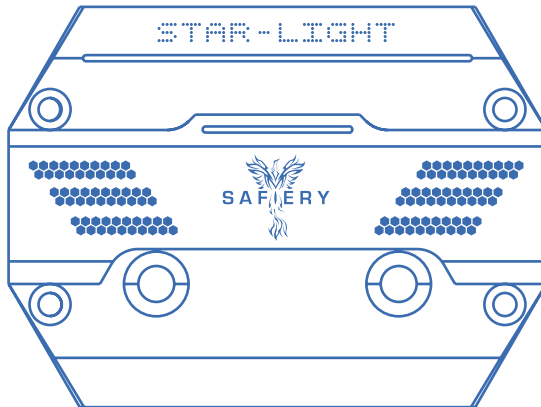




STAR-LIGHT

USER MANUAL



Tomorrow's Technology, Today

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STARLIGHT PROGRAMMING



SCAN

safiery.com/product/star-light-wireless-and-wired-4-channel-led-controller

Youtube Video on programming STAR-Light



or scan the QR Code

Digital Switching of LED Lights Explained

Most LED lights dim on the negative wire. There is a technical reason for this ins LED design. This means:

6 Channels on STAR-Light are NEGATIVE WIRE CONNECTED CHANNELS

These are Channels 1, 2 and then 7, 8, 9, 10

For these Channels the positive wire connects to the Wago block that is fed by a RED Positive wire. This wire is fused with the 20A breaker on the front of the case.

Example: Dimmable canopy LED in dual colour (may have 1 or 2 positive wires and 2 negative wires: Connect the positive wires to the Positive Wago block at the top of the back of the case. Connect the negative wires to two adjacent channels using the one to one wagos sitting in the duct at the top of the case inside. Select 7&8 or 9&10 or 1&2.

For a single colour LED, use just one channel.

But if LED switches on positive then:

4 Channels on STAR-Light are POSITIVE WIRE CONNECTED CHANNELS

These are channels 3, 4, 5, 6

For these Channels, the negative wire connects to the Wago block that is fed by a Black negative wire. This wire is fused with the 20A breaker on the front of the case.

Example: Dimmable canopy LED in dual colour (may have 1 or 2 positive wires and 2 negative wires: Connect the negative wires to the Negative Wago block at the top of the back of the case. Connect the positive wires to two adjacent channels using the one to one Wagos sitting in the duct at the top of the case inside. Select 3&4 or 5&6.

For a single colour LED, use just one channel.

Note in the Configuration using the Smartphone App, the default for the positive channels is "no dimming". If you are dimming, change this section using the App.

To set up the unit, it needs to be powered with a voltage higher than 12V. Make sure that RGBW light connected in the right order.

Section 1: Wiring Instruction

Power Setup

When connecting +12VDC to your STAR-Light, there are two critical considerations to ensure proper operation:

Polarity:

Red (Positive) cable: Must be connected to the right terminal.

Black (Negative) cable: Must be connected to the left terminal.

Cable Size:

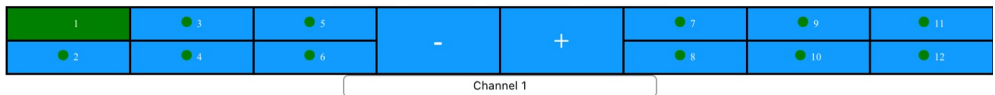
The recommended cable size is 6 mm² to ensure safe and efficient power delivery.

2. Use either the Canbus keypad or StarSwitch Btn to control the chosen channel.
3. If applicable, adjust settings with StarTouch by rotating the encoder to the right option.
4. Hold down buttons 4 and 3 for more than 5 seconds to go to normal mode.

Channel Setup

The STAR-Light system supports up to twelve (12) individual channels, each of which offers distinct features and configuration options. After selecting the desired channel, you can assign a custom label through the system's web-based interface.

In addition, when configuring the switch settings, you may specify whether the channel operates in a positive or negative switching mode. This selection can be made directly within the web-based configuration tool, as illustrated below:



Channels 1–12, polarity settings and Channel designation.

✓ (+) Dimmable
(+) Non-Dimmable
(-) Dimmable
(-) Non-Dimmable

Channels 1–4 and 9–12 are dimmable and support both positive and negative switching.

✓ (+) Non-Dimmable
(-) Non-Dimmable

Channels 5–8 are non-dimmable and support both positive and negative switching.

Dimmable Channels:

Channels 1-4 and 9-10 are dimmable.

These channels can be configured for either negative switching or positive switching, based on your application requirements.

Able to control RGBW from these channels

Non-Dimmable Channels:

Channels 5-8 are non-dimmable.

These channels can also be configured for negative switching or positive switching.

RGBW Wiring Configuration:

When wiring your RGBW light, it is crucial to match the correct wire colours to the corresponding ports to ensure full functionality of the colour selection feature provided in the RGB wiring setup.

Ensure the wiring follows the specified configuration to avoid issues with the functionality of the RGBW light and its colour selection features.

Channels 1–4 and 9–12: Fully support RGBW functionality, including colour selection and dimming features.

Channels 5–8: While these channels can connect to an RGBW light, they do not support the dimming feature, which limits the colour selection functionality.

Wiring Setup

The following wiring configuration should be used:

Channel 1: Red

Channel 2: Green

Channel 3: Blue

Channel 4: White

Channel 9: Red

Channel 10: Green

Channel 11: Blue

Channel 12: White

Section 2: Initial Setup Instructions

Follow these steps to set up your STAR-Light device for the first time:

Connect to the Device:

- Go to the Wi-Fi settings on your device (e.g., smartphone, tablet, or laptop).
- Look for a Wi-Fi network named **STAR-Light Device**. The specific network name will be listed on the label attached to your STAR-Light device.
- Select the network and enter password located on the starlight device.

Access the Setup Page:

- Open a web browser on your connected device.
- Type the following IP address into the browser's address bar: **172.24.24.1**
Press Enter. This will bring you to the **STAR-Light** setup page.

- **Configure the System:**

Refer to individual setup Follow the instructions to complete the setup process.

Section 3: Operating Modes

The STAR-Light system supports three switching configurations:

Single-Channel Switching: Controls a single lighting channel.

Dual-Channel Switching: Controls two independent lighting channels.

RGBW Switching: Supports Red, Green, Blue, and White light control.

Connection Options

There are two ways to connect to the STAR-Light system:

CAN Bus Keypad:

- Connection Protocol: Utilises the CAN bus communication protocol.
- Wiring: Connected using NEMA cables.

Bluetooth Keypad: Connects wirelessly via Bluetooth for remote control.

Section 4: CAN Bus Keypad Setup

The **CAN Bus Keypad** setup page allows users to configure button assignments for different channels.

Configuration Steps:

1. Accessing the Setup: Navigate to the setup page and select the button labelled CAN Bus Keypad.

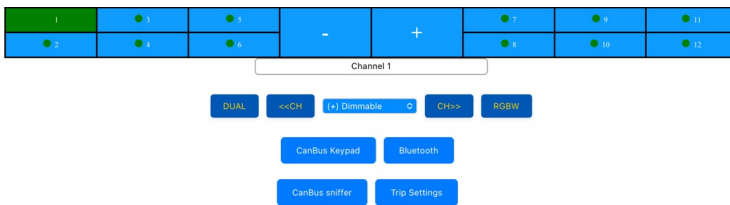
2. Dropdown Menus: Two dropdown menus are available:

Type: Choose from options A-P, where each letter corresponds to a specific CAN Bus keypad

BTN ID: Select **BTN 1-8**, which assigns the chosen button to a channel from **1-12**

3. Setup Instructions:

- Ensure the channel you wish to configure is **highlighted green** before proceeding.
- Select a letter under **Type**, then choose the button (**BTN ID**) to control the selected channel.



CanBus Keypad settings

Type	CanID	Hex	BTN ID
A	0x1800280	0x1	BTN1

Example setup for Can bus keypad A, Button 1, channel 1

Additional Note:

You can assign a single button to control multiple channels simultaneously.

Section 5: Bluetooth Keypad Setup

Steps for Setup:

1. Accessing the Setup:

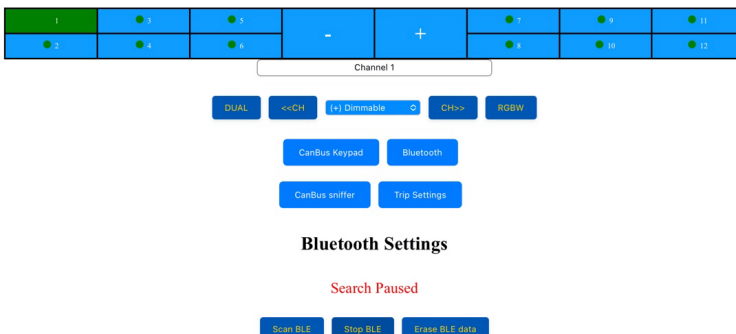
- Navigate to the setup page and select the button labelled Bluetooth.
- This will open the Bluetooth setup page, where you can connect your Bluetooth device.

2. Connecting the Bluetooth Device:

- **Select a Channel:** Choose the channel you want to control and ensure it is **highlighted green**.
- **Scan for Devices:** Press the **Scan BLE** button. A red indicator will appear, stating **Scanning for Bluetooth Devices**.
- **Assign Buttons:** Press the button on the keypad that you want to control the channel.
The **MAC address** for the selected device will appear under **UUID**, and the button number will be

3. Stopping the Scan:

- After assigning buttons to the desired channel, press the **Stop BLE** button.
- A red indicator will appear, stating **Search Paused**, confirming that the Bluetooth scanning mode is turned off.



	UUID	BTN ID
1	EC:DD:F0:A6:47:A7	1
2	*	*
3	*	*
4	*	*
5	*	*
6	*	*

Example setup for Bluetooth switch, Button 1, channel 1

Additional Notes:

Multiple Button Assignments

You can assign up to 6 different buttons to a single channel.

Clearing Bluetooth Settings

To clear the Bluetooth settings for a specific channel:

- Ensure the desired channel is selected and **highlighted green**.
- Press the **Erase BLE Data** button.

This will remove all selected Bluetooth devices associated with that channel.

Section 6: Trip Settings

The **Trip Settings** page allows you to configure and monitor the desired channel (1–12). Below are the settings you can adjust and the parameters you can observe:

Adjustable Settings:

1. Setting Threshold (Set Thr):

- Defines the **maximum allowable current** for the selected channel
- The default setting is **10 amps**
- Adjust this value based on your requirements to prevent overcurrent damage

2. Setting Delay (Set Del):

- Specifies the **time delay** before the channel trips
- The default setting is **1000 milliseconds** (1 second)
- Note: Ensure any adjustments are made in **milliseconds**

Non-Adjustable Settings:

1. **Trigger Count:** Displays the number of times the channel has tripped
2. **DIM %:** Indicates the **dimming percentage** for the channel
3. **Current:** Shows the **real-time current** being drawn by the channel.

GET IN TOUCH

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THE 3 MOST COMMON CALLS ARE:

1. Flattened our batteries - use solar to recover to minimum voltage. Only use 240V AC power after reaching minimum voltage.
2. AC Inverter/Charger will not charge. Usually because the AC In line has an earth fault on the supply side and Safiery systems will not charge unless there is a properly connected earth AND the Active power in is wired correctly at the power supply. Common on farm stays.
3. Inverter not working. Usually because it is switched to "Charge Only" and it will not operate as inverter. Simply switch to "on" position.

