DAIERTEK 8 Gang Switch Panel

DaierTek 8 Gang RGB LED Switch Panel Instruction Manual

Model: 8 Gang Switch Panel (ASIN: B0DC3V99N2)

1. Product Overview

The DaierTek 8 Gang RGB LED Switch Panel is a multi-functional control system designed for 12V/24V automotive, ATV, UTV, boat, and marine applications. It features eight customizable switches with RGB LED backlighting, automatic dimming, and three operational modes: constant, momentary, and pulsed. The system includes comprehensive safety features such as built-in high-power relays, fuse holders, and a 60A circuit breaker for over-voltage, over-current, and overload protection.

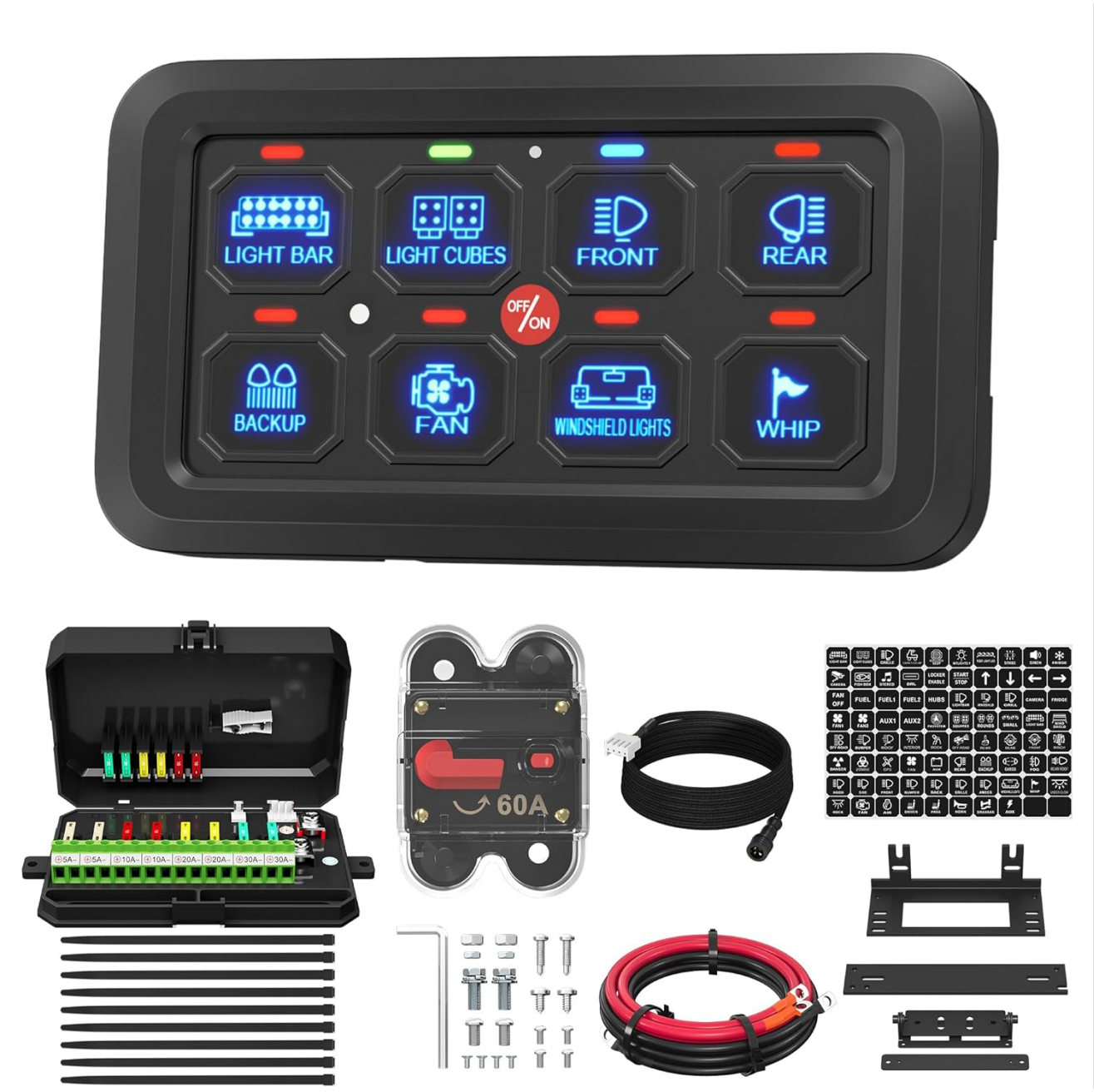

Figure 1.1: DaierTek 8 Gang Switch Panel with all included installation components.

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Video 1.1: Official DaierTek 8 Gang Switch Panel product overview and installation demonstration.

2. Setup and Installation

Proper installation is crucial for the safe and effective operation of your switch panel. Ensure the vehicle's power is disconnected before beginning installation.

2.1 Package Contents

Verify that all components are present:

- 1 x 8 Gang Switch Panel

- Control Box
- Mounting Brackets (various types)
- Power Harness and Connections
- Circuit Breaker (60A)
- Fuse Holders and Fuses
- 80pcs Labels (Decals)
- Screws and Cable Ties

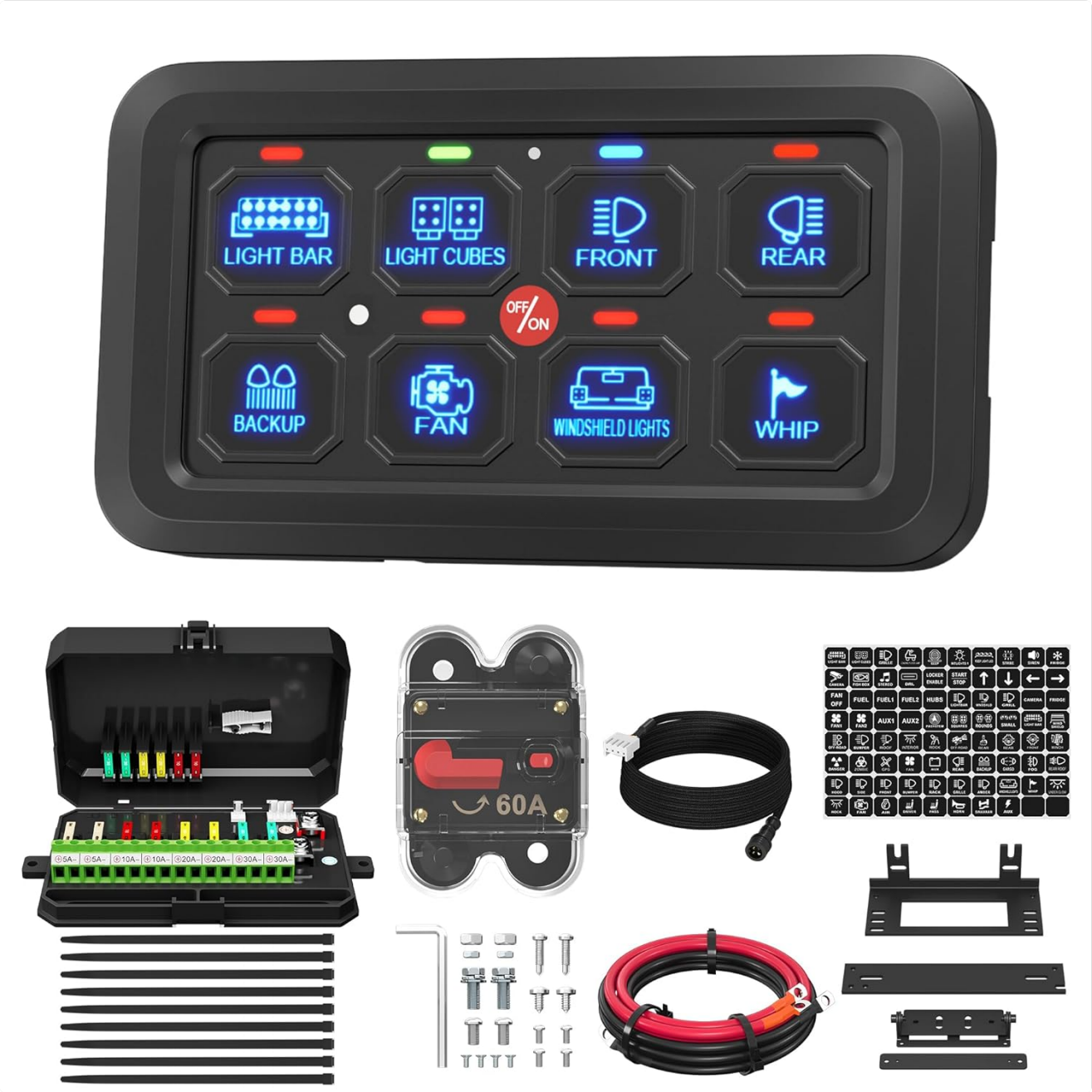

Figure 2.1: All items included in the DaierTek 8 Gang Switch Panel package.

2.2 Wiring Connections

Connect the main power and ground wires to your vehicle's battery. The red wire connects to the positive (+) terminal, and the black wire connects to the negative (-) terminal. Ensure the 60A circuit breaker is installed on the positive line for protection.

1. Connect the main power cable from the control box to the positive terminal of the battery via the 60A circuit breaker.

2. Connect the main ground cable from the control box to the negative terminal of the battery.
3. Connect the switch panel to the control box using the provided cable.
4. Connect your auxiliary LED lights or other electrical devices to the corresponding output terminals on the control box. Each circuit has a specific current rating (e.g., 5A, 10A, 20A, 30A).

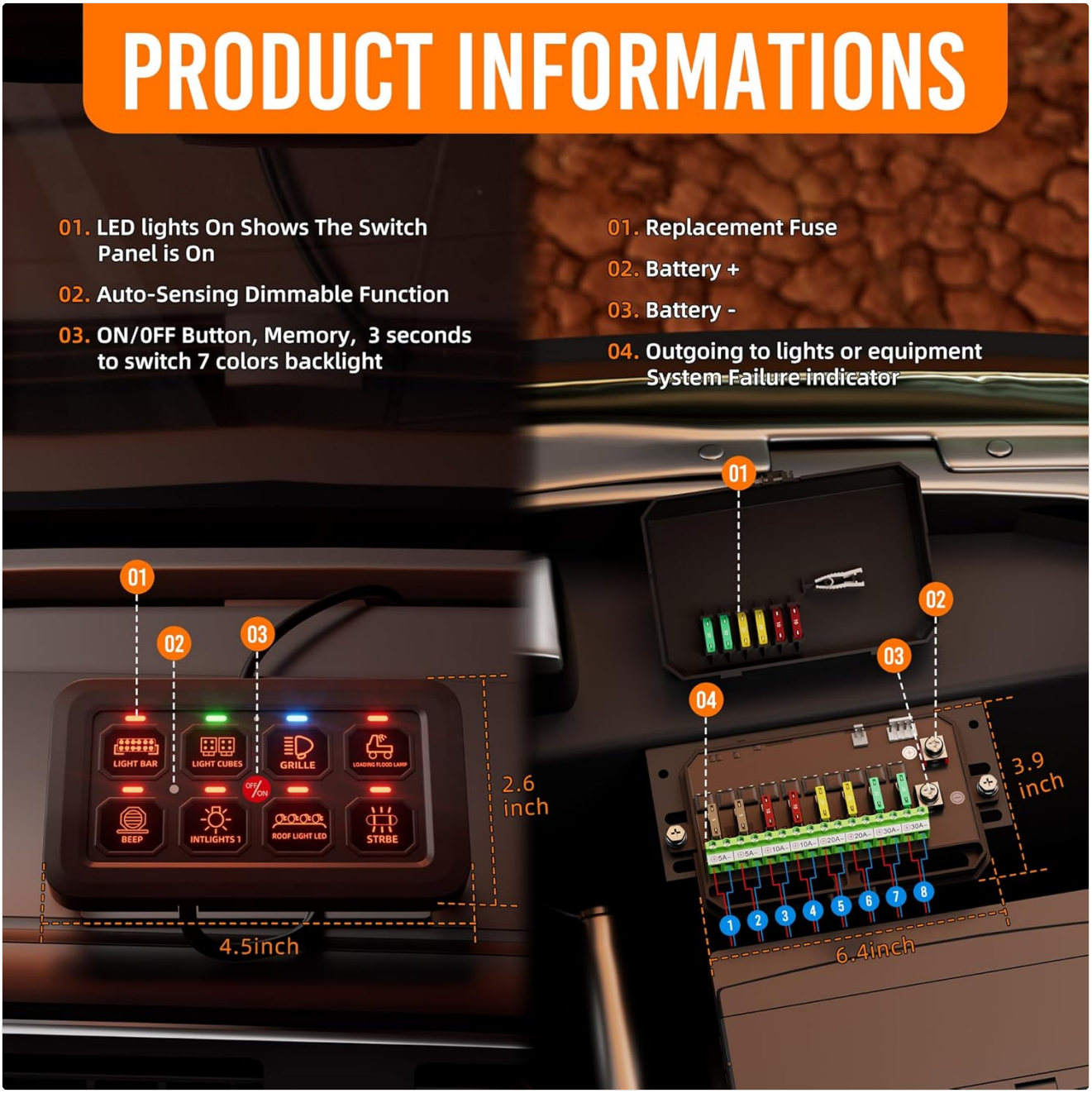

Figure 2.2: Detailed view of the control box wiring, showing input and output connections.

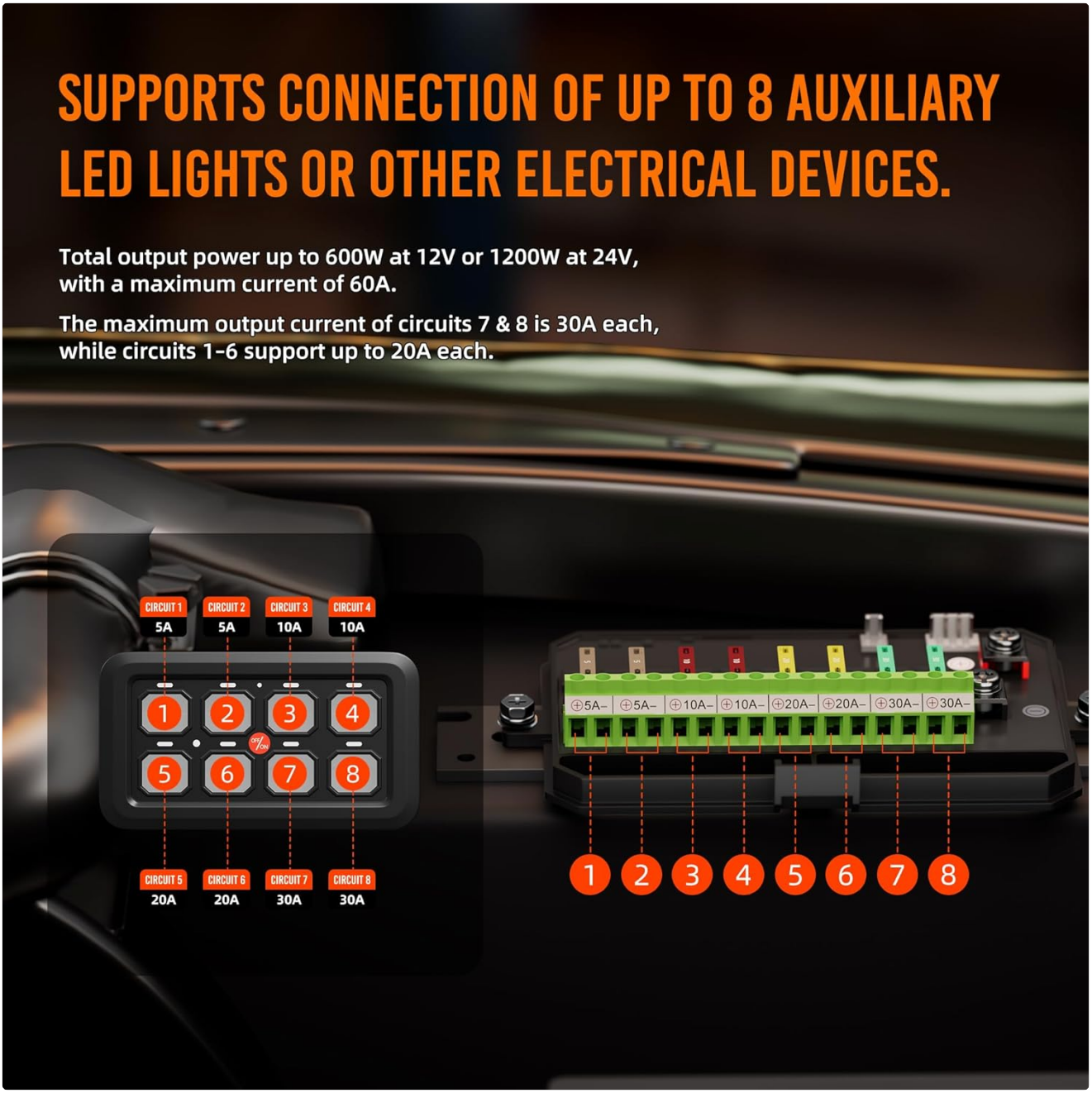

Figure 2.3: Circuit current ratings for connecting auxiliary devices.

2.3 Mounting Options

The switch panel and control box offer various mounting options for flexible installation.

Switch Panel Mounting:

- **Slim Line Flush Mount:** For a low-profile installation.
- **Angle Adjustable Mount:** Allows for adjustment of the panel's viewing angle.

Control Box Mounting:

- **Flush Mount:** For a flat surface installation.
- **Fix Mount:** Utilizes brackets to secure the control box.

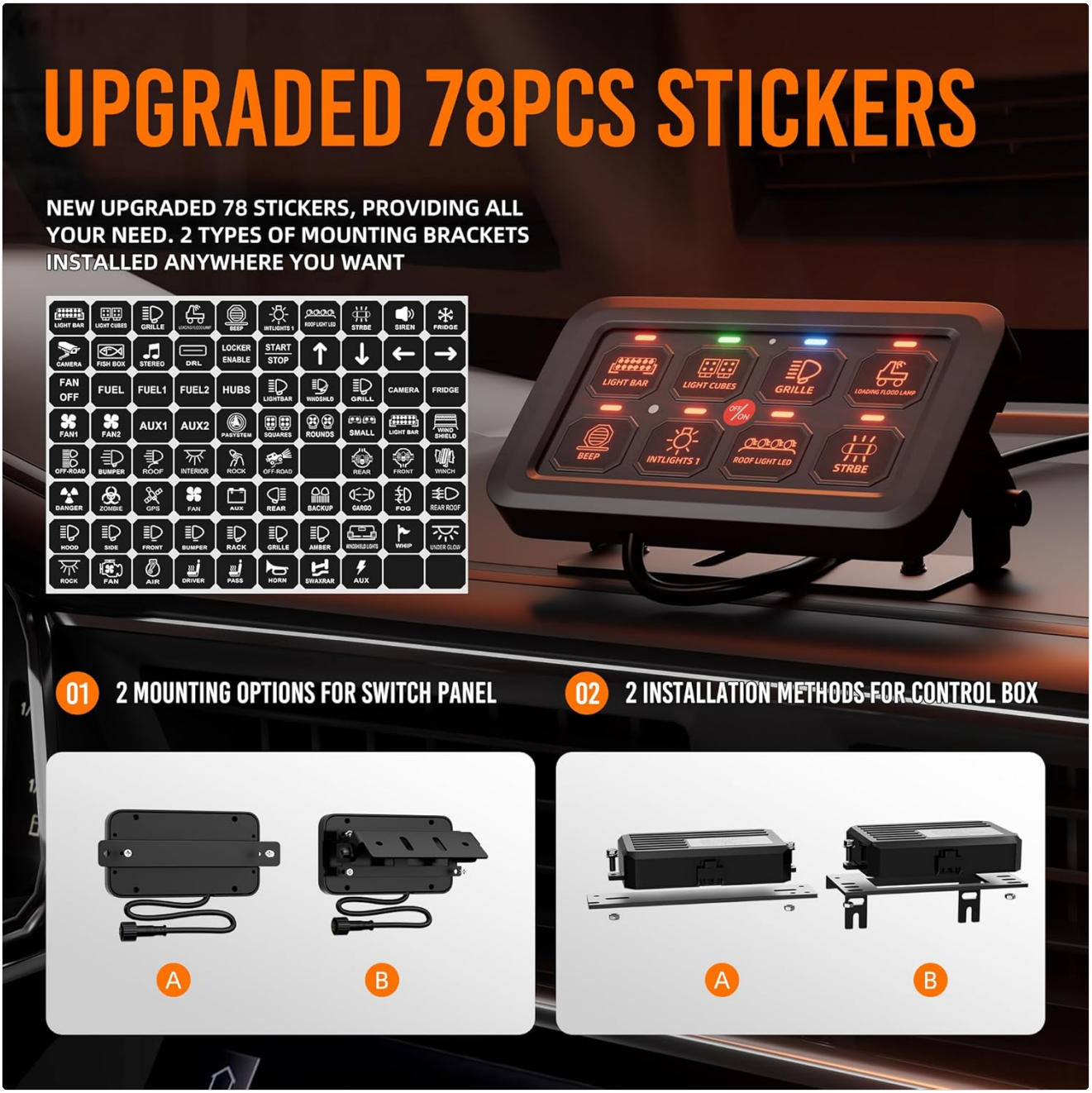

Figure 2.4: Various mounting brackets and installation methods for the switch panel and control box.

3. Operating Instructions

The switch panel offers intuitive control over your connected accessories with customizable backlighting and operational modes.

3.1 Powering On/Off

Press the central "OFF/ON" button to power the switch panel on or off. The LED lights on the panel will illuminate when it is on.

3.2 Operational Modes

Each switch can be configured for one of three modes:

- **Constant Mode (Red Indicator):** The connected device remains on until the switch is pressed again. Ideal for lights or accessories that need to stay on.
- **Momentary Mode (Blue Indicator):** The connected device is active only while the switch is pressed. Releases when the switch is released. Suitable for horns or temporary functions.
- **Pulsed Mode (Green Indicator):** The connected device activates with a pulsed output when the switch is pressed.

Refer to the product's advanced settings or the manufacturer's website for instructions on how to configure individual switch modes.

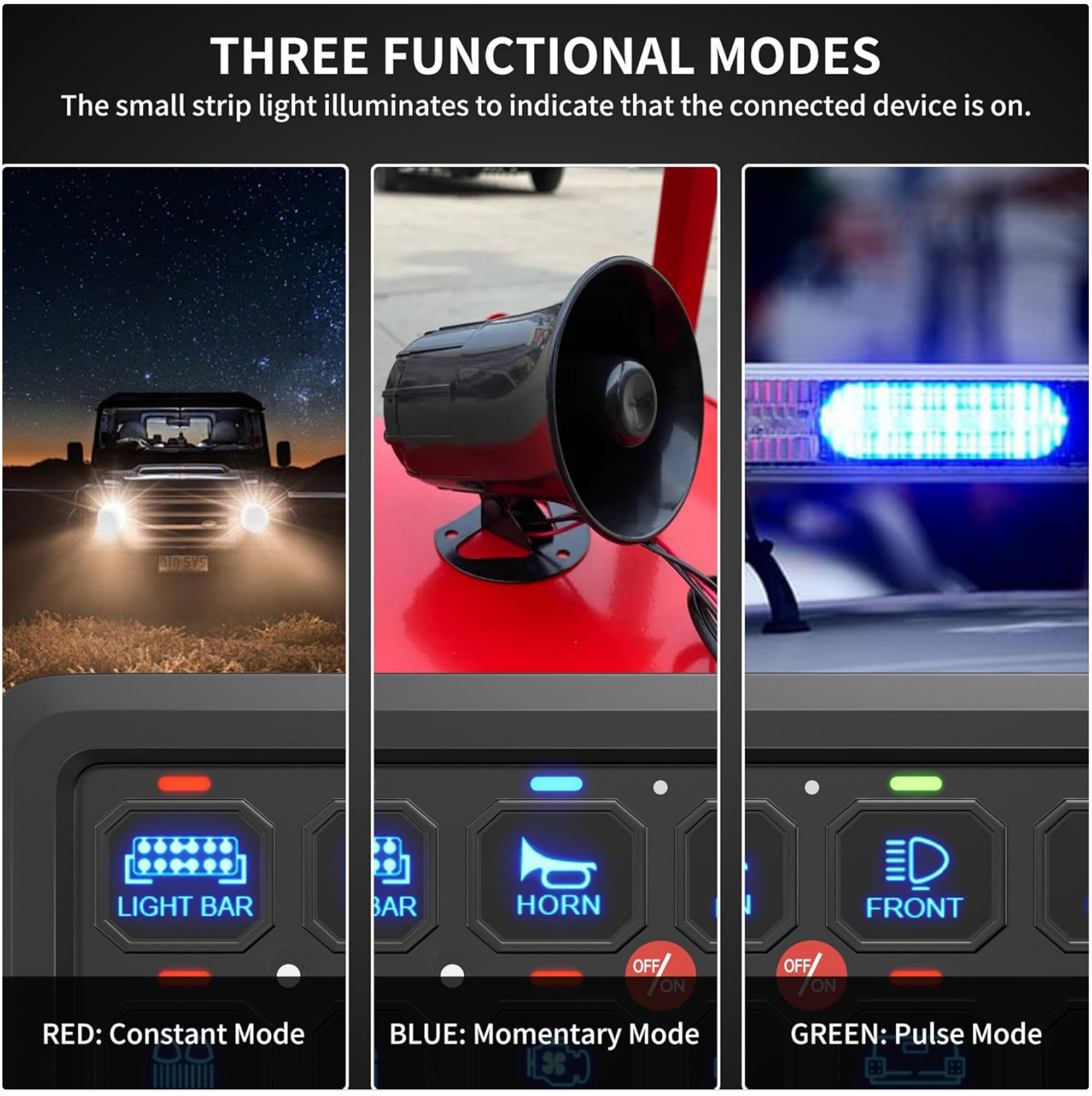

Figure 3.1: Visual representation of the three functional modes: Constant (Red), Momentary (Blue), and Pulsed (Green).

3.3 RGB Backlight and Dimmable Function

The switch panel features RGB backlighting with seven available colors. The backlight brightness automatically adjusts based on ambient light conditions.

- **Color Selection:** Press and hold the ON/OFF button for 3 seconds to cycle through the seven available RGB colors (red, green, blue, deep blue, yellow, white, purple).

- **Automatic Dimming:** The panel's backlight will automatically dim or brighten to optimize visibility in different lighting environments.

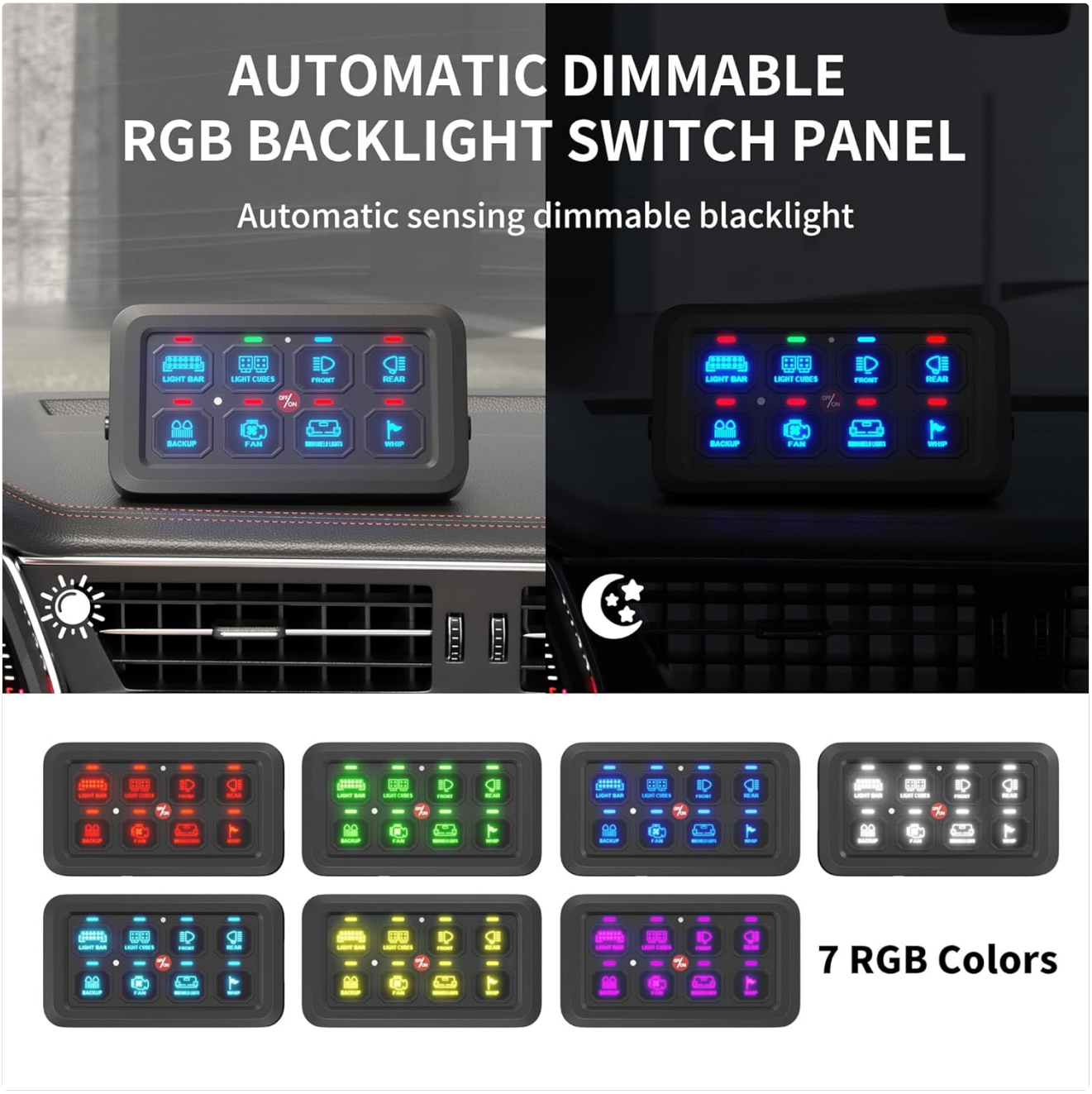

Figure 3.2: The switch panel displaying various RGB backlight colors and demonstrating automatic dimming.

3.4 Customizing Switches with Labels

Use the provided 80pcs of labels (decals) to clearly identify the function of each switch. Apply the appropriate label to the corresponding button for easy identification.

4. Maintenance

Regular maintenance ensures the longevity and reliable performance of your DaierTek switch panel.

4.1 Fuse Replacement

The control box is equipped with individual fuses for each circuit. If a connected device stops working, check the corresponding fuse. A blown fuse will typically have a visible break in its wire or an illuminated indicator light next to it.

1. Disconnect power to the switch panel.
2. Open the control box cover.
3. Identify the blown fuse (often indicated by a red LED next to it).
4. Carefully remove the blown fuse using a fuse puller or small pliers.
5. Replace it with a new fuse of the exact same amperage rating. Using a fuse with a higher rating can lead to damage or fire.
6. Close the control box cover and restore power.

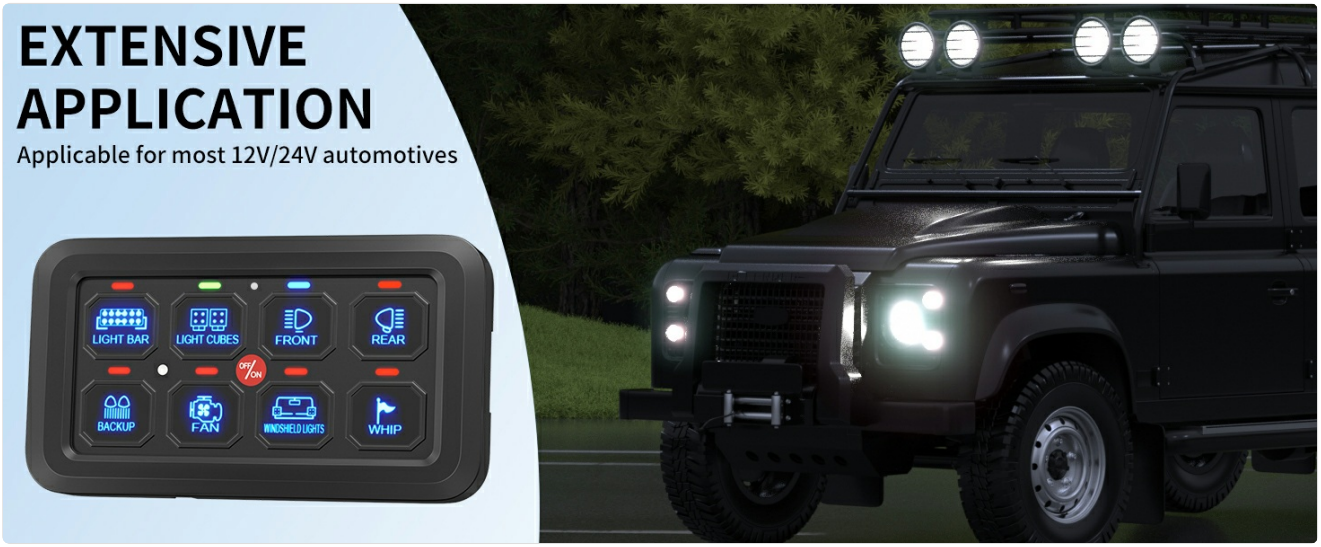

Figure 4.1: Illustration of the fuse box and 60A circuit breaker, highlighting protection mechanisms.

4.2 Circuit Breaker

The 60A circuit breaker provides overall system protection. If an overload or short circuit occurs, the breaker will trip, cutting power to the entire panel. To reset, identify and resolve the cause of the overload, then manually reset the breaker.

4.3 General Care

- Keep the switch panel and control box clean and free from dust and debris.
- Avoid exposing the unit to extreme moisture or harsh chemicals.
- Periodically check all wiring connections to ensure they are secure.

5. Troubleshooting

If you encounter issues with your switch panel, refer to the following common problems and solutions:

5.1 Panel Not Powering On

- **Check Power Connections:** Ensure the main power and ground wires are securely connected to the battery terminals.

- **Verify Circuit Breaker:** Check if the 60A circuit breaker has tripped. Reset it if necessary.
- **Battery Voltage:** Confirm that your vehicle's battery has sufficient voltage (12V/24V).

5.2 Individual Switch Not Working

- **Check Fuse:** Inspect the individual fuse for the affected circuit in the control box. Replace if blown.
- **Device Connection:** Ensure the connected auxiliary device is properly wired to the control box output.
- **Device Functionality:** Test the auxiliary device independently to confirm it is working correctly.

5.3 Backlight Issues

- **No Backlight:** Ensure the panel is powered on. If the entire panel has no backlight, check main power.
- **Incorrect Color/Dimming:** The panel automatically adjusts brightness. To change colors, press and hold the ON/OFF button for 3 seconds.

If problems persist after following these steps, please contact DaierTek customer support.

6. Specifications

Feature	Detail
Product Dimensions	12.68 x 8.11 x 3.78 inches
Weight	5.09 Pounds
Operation Mode	ON-OFF (with Constant, Momentary, Pulsed options)
Current Rating	60 Amps (Max Total)
Operating Voltage	12 Volts / 24 Volts
Max Power Output	600W (12V), 1200W (24V)
Circuit Type	8-way
Actuator Type	Touch
Operating Temperature	-40°F to 221°F (-40°C to 105°C)
Waterproof Rating	IP65 (Control Box)

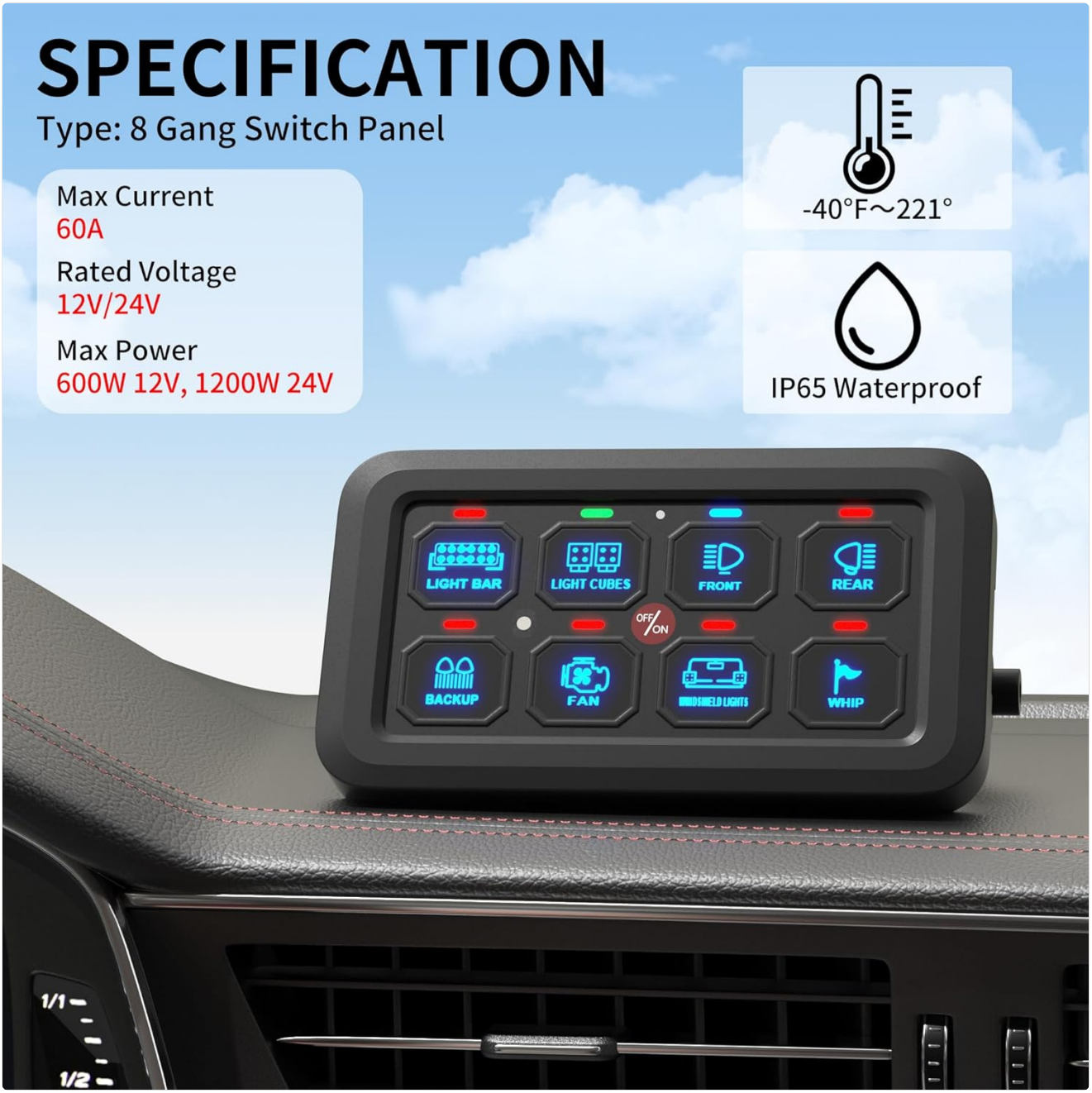

Figure 6.1: Key specifications of the DaierTek 8 Gang Switch Panel.

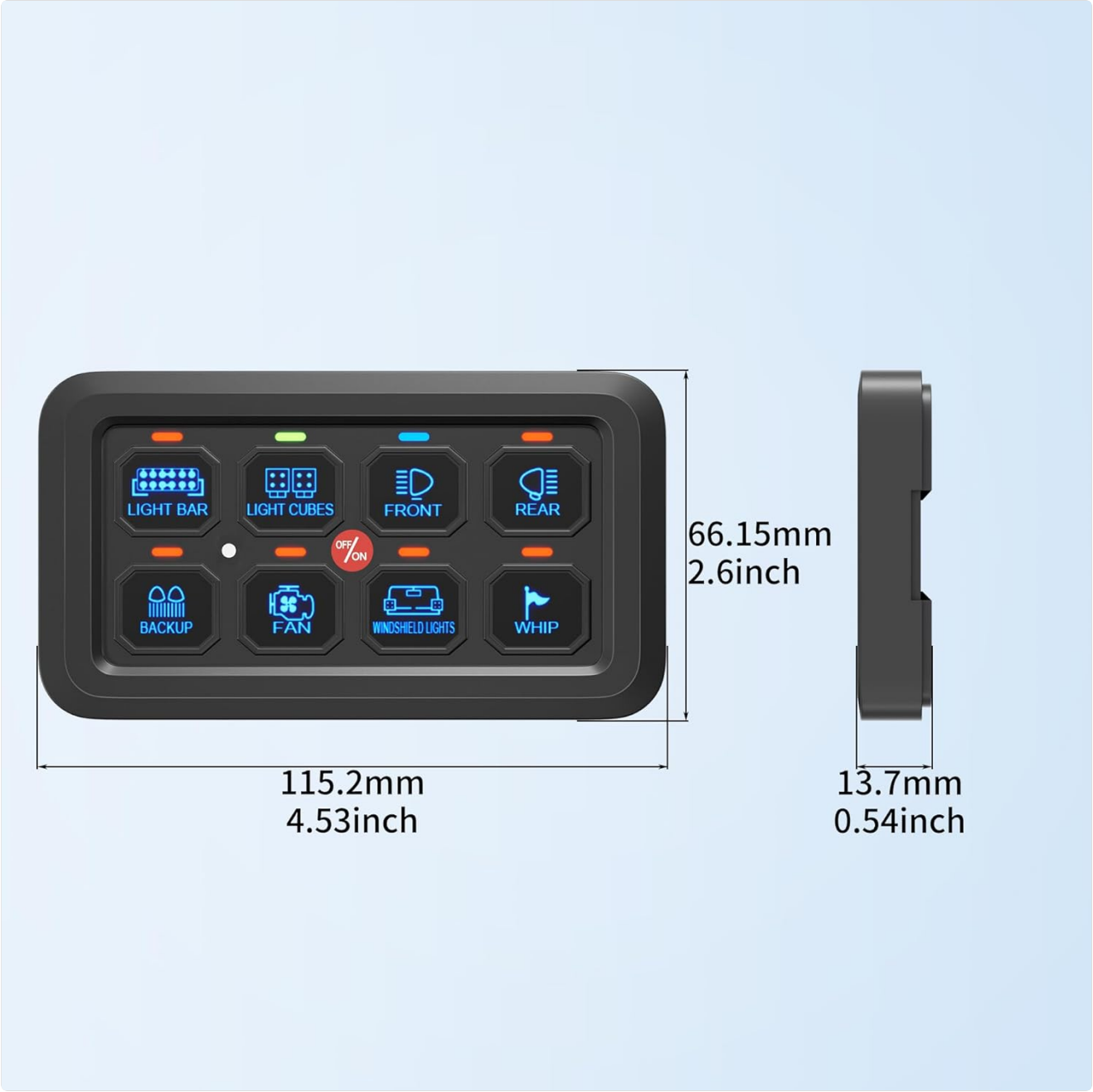

Figure 6.2: Physical dimensions of the DaierTek 8 Gang Switch Panel.

7. Warranty and Support

DaierTek products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official DaierTek website. Keep your purchase receipt as proof of purchase.

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact DaierTek customer support through their official channels. You can often find contact information on the product packaging or the brand's official website.

Manufacturer: DAIERTEK

Brand Store: Visit DaierTek Store on Amazon