Zone Controller Operation Guide

Shadow-Caster LED Lighting
www.shadow-caster.com
V3.04

The Shadow-Caster "Zone Controller" allows individual or simultaneous control of four separate lighting zones on your boat or RV. Quickly change color and brightness or set the lights to dance to music.

Supports Shadow-Caster's "Shadow-Net" devices. This allows communication with Shadow-Caster's line of under water and above water lights, along with standard RGB Color Changing lights.

The backlit housing installs in a 3" gauge opening and includes a wiring harness and mounting hardware.

Zone button backlighting will allow each button to match the selected color and mode of that zone

Turn controller on
• Press ALL

Turn controller off
• Hold OFF for 2 secs

Initiate lighting
1) After controller has been turned on by pressing ALL, press ALL again and all lights will return to previous setting.
2) Press ALL, or press the desired zone number then press desired color for full brightness .
3) Press and hold a color and lights will fade up and stop when button is released.
4) Press **Color** then **<** or **>** to shift color hue. See Table 1 for colors.
5) Press **SYNC** to activate music sync
    1) **Sync 1: Full Color Frequency Mode**. (Different Frequency content in the music drives the intensity of different colors)
    2) **Sync 2: Single Color Amplitude Mode**. **<** , **>** can be used to select a color, the brightness is driven by the relative intensity of the music.
    3) **Sync 3: Multi Color Amplitude Mode.** Similar to the single color mode, but the colors are rotating continuously.

    Press and hold **SYNC:**

    < , **>,** Increase / Decrease averaging. This will control how quickly the light changes colors (10 steps total)

    ∧ , **∨** Increase/decrease sensitivity (10 steps total)
6) Press **MODE** to activate fade/ strobe modes.
    • **Mode 1:** Single Color Fade
    • **Mode 2:** Multi Color Fade
    • **Modes 3:** Multi Color Change
    • **Mode 4**: Strobe/ Flash
    • Hold MODE button and press **<** , **>,** to change the speed of the fade/ and strobe modes. (6 steps)
    • **<** , **>** **to change color or color sequence**

Dimming
• Press ALL, or press the desired zone number then press or hold **∧** or **∨**

Turn zones off
• Press ALL, or press the desired zone number then press OFF

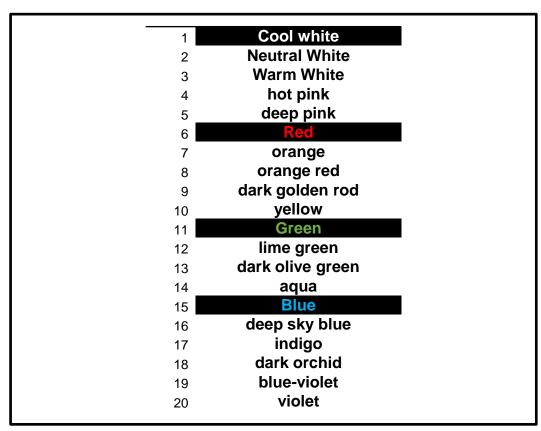|	
1	**Cool white**
2	**Neutral White**
3	**Warm White**
4	**hot pink**
5	**deep pink**
6	**Red**
7	**orange**
8	**orange red**
9	**dark golden rod**
10	**yellow**
11	**Green**
12	**lime green**
13	**dark olive green**
14	**aqua**
15	**Blue**
16	**deep sky blue**
17	**indigo**
18	**dark orchid**
19	**blue-violet**
20	**violet**

TABLE 1: When using the < or > buttons to shift the color hue, the colors will follow this order.

Changing CAN bus frequency

Under normal circumstances the user will not need to change the frequency of the can bus communications. In the case that this is required below are the steps to accomplish this.

To set the can bus to 250khz

- Make sure the zone controller will turn on by indication of the button back lights being illuminated.
- Hold the Off button until the button back lights turn off
- Press the "Sync" button 30 times or until the back lights begin flashing
- Turn OFF the power to the zone controller via circuit break, battery switch, or applicable method for your application.
- Turn the power back on to the circuit and now the can bus will operate at 250khz, which is the correct frequency for most lights made after May of 2017.

To set the can bus to 500khz

- Make sure the zone controller will turn on by indication of the button back lights being illuminated.
- Hold the Off button until the button back lights turn off
- Press the "Mode" button 30 times or until the back lights begin flashing
- Turn OFF the power to the zone controller via circuit break, battery switch, or applicable method for your application.
- Turn the power back on to the circuit and now the can bus will operate at 500khz, which is the correct frequency for most lights made before May of 2017.