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FUSION CRGBW Wireless LED Remote Control Instructions

Wireless CRGBW LED Remote Control Instructions

Contents

Important Safety Information

⚠️ **WARNING**

Failure to follow these warnings and cautions could result in personal injury, damage to the vessel, or poor product performance.
See the Important Safety and Product Information guide in the stereo box for product warnings and other important information.
This device must be installed according to these instructions.
Disconnect the vessel's power supply before beginning to install this product.

CAUTION

Always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

NOTICE
When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel. You must read all installation instructions before beginning the installation. If you experience difficulty during the installation, contact Fusion ®

Product Support. Supplies and Tools Needed

- 2-conductor 22 AWG (0.33 mm) wire to connect the remote control receiver to the power source 2
- 6-conductor 22 AWG (0.33 mm) wire (or equivalent combination of 2- to 4-conductor wire) to connect the receiver to the LED speakers 2
- Cable ties or adhesive for mounting the receiver
- 4 gauge (3 mm) countersunk stainless-steel screws for mounting the remote cradle (optional)
- 3 mm flat screwdriver
- Wire cutters
- Drill and drill bits for mounting the remote cradle (optional)

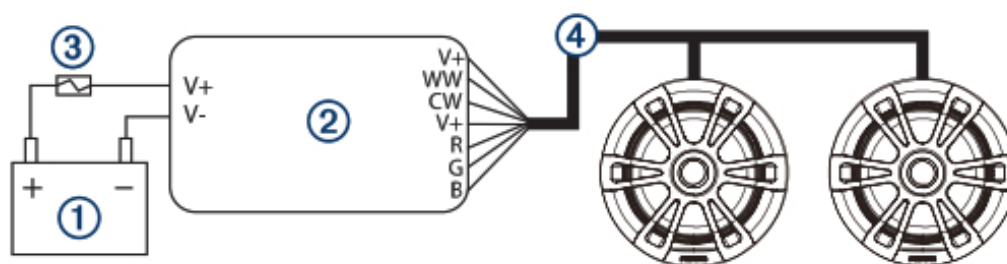## Mounting and Connection Considerations

When selecting a location for the remote control receiver and making the wiring connections, observe these considerations.

- The receiver housing is not weatherproof, and you must install the receiver in a location that is not exposed to the elements.
- You can connect a single receiver to up to 10 LED speakers with RGB, cool white, and warm white functionality (5 pairs). You must use an additional receiver and remote control (sold separately) to connect to additional LED speakers.
- You cannot use a single remote control with more than one receiver.

Connecting the Remote Control Receiver
You can connect up to 10 (5 pairs) of CRGBW LED speakers to one remote control receiver.

1. Route a power wire (not included) from a 12 Vdc power source to the location of the receiver.

2. Install the included 7.5 A fuse on the power wire.
3. Route 6-conductor wire or equivalent (not included) from the receiver to the speakers you want to control, joining the wire where needed to connect up to 4 speakers.

NOTE: To avoid interference, you must not route the LED wires near and parallel to any RCA, power, or speaker audio

cables. You should also avoid routing this cable near any other electronic cabling on the vessel.

4. Connect the 6-conductor wire or equivalent to the CRGBW connectors on the speakers according to the installation instructions provided with the speakers.
5. Loosen the wire terminal screws on the bottom of the receiver using a 3 mm flat screwdriver.
6. Connect the power and RGB speaker wires to the wire terminals on the sides of the receiver.

Letter on receiver label	Wire color or function
INPUT +12V DC (left side)	12 Vdc negative (-)
INPUT -12V DC (leftside)	12 Vdc positive (+)
V+ (BLACK) (right side)	CRGBW 12 Vdc positive (+) (common) wire **NOTE:** Two V+ connectors are provided on the right side for convenience. You should connect the common wire from the speakers to only one of these connectors.
WARM WHITE (YELLOW)	CRGBW warm white wire
COOL WHITE (TURQUOISE)	CRGBW cool white wire
V+ (BLACK) (right side)	CRGBW 12 Vdc positive (+) (common) wire **NOTE:** Two V+ connectors are provided on the right side for convenience. You should connect the common wire from the speakers to only one of these connectors.
RED	CRGBW red wire
GREEN	CRGBW green wire
BLUE	CRGBW blue wire

7. Tighten the wire terminal screws on the bottom of the receiver.
8. Secure the receiver to the mounting location using cable ties or adhesive (not included).

Installing the Remote Control Cradle

You can install the included remote cradle to store the remote when not in use. Mounting hardware for the cradle is not included.

NOTICE

Because the remote control is not weatherproof, you must install the cradle in a location that is not exposed to the elements.

1. Using the cradle as a template, mark the two pilot holes.
2. Remove the cradle from the mounting surface and drill the pilot holes.

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NOTICE

Do not drill through the cradle when drilling the pilot holes. This may damage the cradle.

3. Secure the cradle to the mounting surface using two 4 gauge (3 mm) countersunk stainless-steel screws.

Installing the Batteries

You must install AAA alkaline batteries (not included) in the remote control.

1. Slide the battery door to the back of the remote and pull up to open it.

2. Insert two AAA batteries, observing polarity.
3. Slide the battery door back onto the remote to close it.

Remote Control Operation

I	LED power on (Turning the LEDs On and Off, page 2) Hold to turn off all color LEDs and turn on the warm and cool white LEDs.
O	LED power off
1	LED color-selection wheel (Changing the Color of the LEDs, page 2)
2	Light: activates when the remote sends a signal to the receiver
B/S	LED brightness or speed Static color: changes the brightness (Changing the Brightness of the RGB LEDs, page 2) Dynamic mode: changes the speed between color changes (Changing the Speed of a Display Mode Pattern, page 3)
WW	Warm white LEDs (Using Cool or Warm White LEDs, page 2)
CW	Cool white LEDs (Using Cool or Warm White LEDs, page 2)
M	LED dynamic mode (Changing the Display Mode of the LEDs, page 2)

Turning the LEDs On and Off

After you connect the remote control receiver to the speaker
LEDs, you must use the remote control to turn the LEDs on and off.
1 Press. I
The LEDs connected to the receiver turn on with the same color and mode settings applied before the last time you turned them off.
2 Press to turn off the LEDs connected to the receiver.
Changing the Color of the LEDs
1 If necessary, turn on the LEDs for the speakers you want to change.
2 Select an option:
• Touch the color wheel to select a new color, and slide your finger to fine-tune it.
• Hold to change the LED color to white.
NOTE: This turns off all color LEDs and turns on the cool white and warm white LEDs.

Changing the Brightness of the RGB LEDs

1. If necessary, turn on the LEDs for the speakers you want to change, and select a color.

2. Select an option:

    • To increase the LED brightness, **+** press above

    .• To decrease the LED brightness, **–** press below

Using Cool or Warm White LEDs
You can use the remote control to add cool or warm white to any color, or on their own.

- To add or remove warm white LEDs to or from a color, press WW
- To add or remove cool white LEDs to or from a color, press
- To turn off all color LEDs and turn on the warm and cool white LEDs, hold

Changing the Brightness of the Warm or Cool White LEDs

1. If necessary, turn on the warm or cool white LEDs for the speakers you want to change.
2. Select an option:

- To increase the LED brightness, press above or **CW**

- To decrease the LED brightness, press below or **CW**

Changing the Display Mode of the LEDs

You can cycle through a pre-defined set of LED flashing, breathing, or color-changing effects (Display Mode Options, page 2).

1. If necessary, turn on the LEDs for the speakers you want to change.
2. Press. **M**
3. Press **M** to change to the next mode in the sequence.
4. Touch a color on the color wheel to stop the display mode and return to a solid color.

Display Mode Options

You can select among 25 different color and transition patterns. When you reach the end of the cycle of display modes by continually pressing **M**, the patterns stop, and the LEDs are a static full white. When you press **M** again, the cycle starts at the beginning.

Display mode 1	Red, green, and blue fade in and out
Display mode 2	Red, green, blue, yellow, teal, magenta, and full white fade in and out
Display mode 3	Full white fade in and out
Display mode 4	Cool white fade in and out
Display mode 5	Warm white fade in and out
Display mode 6	Cool white and warm white fade in and out
Display mode 7	Red, cool white, and warm white fade in and out
Display mode 8	Green, cool white, and warm white fade in and out
Display mode 9	Blue, cool white, and warm white fade in and out
Display mode 10	Red, green, blue, cool white, and warm white fade in and out
Display mode 11	Red, green, blue, yellow, teal, magenta, full white, cool white, and warm white fade in and out
Display mode 12	Full white, cool white, and warm white fade in and out
Display mode 13	Red, green, and blue strobe
Display mode 14	Red, green, blue, yellow, teal, magenta, and full white strobe
Display mode 15	Full white flash
Display mode 16	Cool white flash
Display mode 17	Warm white flash
Display mode 18	Cool white and warm white flash
Display mode 19	Red, cool white, and warm white flash
Display mode 20	Green, cool white, and warm white flash
Display mode 21	Blue, cool white, and warm white flash
Display mode 22	Red, green, blue, cool white, and warm white flash
Display mode 23	Red, green, blue, yellow, teal, magenta, full white, cool white, and warm white flash
Display mode 24	Full white, cool white, and warm white flash
Display mode 25	Automatically cycles all 24 display modes

Changing the Speed of a Display Mode Pattern
You can adjust the speed of the effects when using a display mode pattern.
1 If necessary, turn on the LEDs for the speakers.
2 If necessary, select a display mode (Changing the
Display Mode of the LEDs, page 2).
3 Select an option:
• To increase the speed of the display-mode-pattern effect, press **+** above **B/S**
• To decrease the speed of the display-mode-pattern effect, press **–** below **B/S**

Unpairing a Remote Control from the Wireless Receiver
You can unpair a remote control from the wireless receiver if you are planning to replace it.

1. If necessary, install the wireless receiver, and connect it to the speaker LEDs (Connecting the Remote Control Receiver, page 1).
2. If necessary, install batteries in the replacement remote control (Installing the Batteries, page 2).
3. Disconnect the power from the wireless receiver.
4. Hold on the remote control, and connect the wireless receiver to power.

   The LEDs flash nine times to indicate that the remote control is unpaired from the wireless receiver.

   NOTE: After the remote control is unpaired from the wireless receiver, the connected LEDs fade in and out through a red,

   green, and blue cycle until you pair a new remote control with the wireless receiver (Pairing a Remote Control with the Wireless Receiver, page 3).

.Pairing a Remote Control with the Wireless Receiver

If you replace a lost or damaged remote control with a new remote control, you can use the replacement remote control with an existing wireless receiver.

1. If necessary, install the wireless receiver and connect it to the speaker LEDs (Connecting the Remote Control Receiver, page 1).
2. If necessary, install batteries in the replacement remote control (Installing the Batteries, page 2).
3. Disconnect the power from the wireless receiver.
4. Hold on the remote control, and connect the wireless receiver to power.

   The LEDs flash three times to indicate that the remote control is paired to the wireless receiver.

Specifications

Input voltage	10.8 to 16 Vdc
Fuse	7.5 A
Max. capacity	Up to 10 CRGBW LED speakers (5 pair)
Operating temperature	From 0 to 50°C (32 to 122°F)
Storage temperature	From -20 to 70°C (-4 to 158°F)
Battery type	2 AAA (not included)
Radio frequency	2.4 GHz @ 10 dBm nominal
Range	Up to 10 m (30 ft.)
Water rating	Remote control receiver and remote control are not water or dust resistant.

Registering Your Wireless CRGBW LED Remote Control

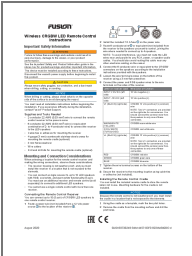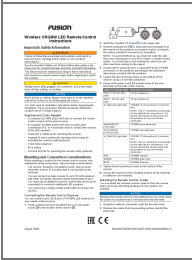Help us better support you by registering the product online.

- Go to www.fusionentertainment.com.
- Keep the sales receipt, or a copy, in a safe place.

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Documents / Resources

	FUSION CRGBW Wireless LED Remote Control [pdf] Instructions CRGBW, Wireless LED Remote Control
	FUSION CRGBW Wireless LED Remote Control [pdf] Instructions CRGBW, Wireless LED Remote Control

References

- ▲ **Garmin Fusion® Marine Audio Entertainment**

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