MiBOXER LDRF-RGBW6-MZ 2.4 GHz Wi-Fi Multi Zone RGBW Controller and Remote User Manual

MiBoxer

User Manual
LDRF-RGBW6-MZ
Controller: RGBW6-MZ
Remote: MZ-RGB-REMOTE

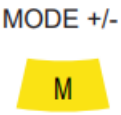
Important: Read all instructions prior to installation.
MiBoxer 2.4 GHz Wi-Fi Multi Zone RGBW Controller and Remote

Contents

Parts Included

1 – 2.4GHz Wi-Fi Compatible RGBW Controller
1 – 2.4GHz Sync-able Multizone RF Touch Color Remote
1 – Double-sided Tape

RF Remote

Button	Functions
	**Master On(-)/Off(O)** A master On(-)/Off(O) control for all zone-linked RGB(W) LEDs. Also activates the “Master” func ones.
COLOR WHEEL	Directly selects color along a circular spectrum. Use of Color Selection Ring overrides any previous settings, causing mode selection to start ove e light only, keep the “Zone On” (I) button depressed until the light changes to a steady bright wh
BRIGHTNESS +/ - 	**Brightness Touch Slider – Increase(Right Side)/Decrease (Left Side)** Increases (right side) or decreases (left side) the brightness level. Changing the active mode re
	**Mode Speed – Increase(S+)/Decrease (S-)** Increases (S+)/Decreases(S-) the tempo of the mode pattern currently active.
	**Mode Start/Scroll (M)** Modes feature different color combinations, light transitions, and patterns, with 9 distinct modes function and scrolls through the modes in rotating order.
	**Zone ON(I) / OFF(O)** Allows up to four “zones” (i.e. channels) of RGB(W) LEDs to be separately linked and controlled he Zones ON(I) buttons activates that zone; commands will affect only lights in that zone.

General Description

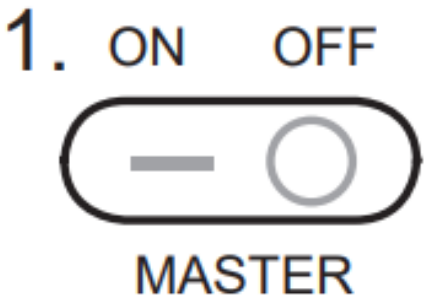
The LDRF-RGBW6-MZ LED controller features 4 total channels used to control RGBW LED products, which are RGB products with individually controllable White LEDs on the 4th channel. The White LED channel on RGBW products combined with an RGBW controller will produce a pure white illumination. See “Wiring: Method 2” to achieve this design using RGBW LED products.
Alternatively, the LDRF-RGBW6-MZ LED controller can be used to control 2 completely different products, one RGB and another single color on the 4th channel. See “Wiring: Method 1” to achieve this design using 2 LED products.
Control up to four separate “zones” of RGB lights to be linked and controlled by one wireless remote.
Offers 9 dynamic modes with adjustable brightness, speed, and mode retention (controller resumes modes with the settings previously selected).

Instructions

Pre-test & Configure
May be used with RGB strips, bars, modules, or other LED products.
Connect LEDs to power supply and controller (see “Method 1” or “Method 2” diagram).

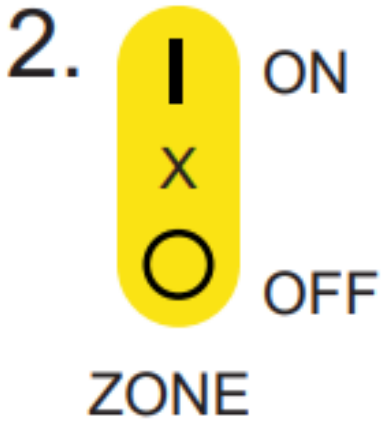
Turn on LEDs using the included remote controller to ensure proper operation of the LEDs, power supply, controller, and remote.
Choose a suitable dry location for the power supply and controller. Before double-sided tape is used on the controller, ensure all surfaces are clean and dry.

White Mode



1. For all zones, press and hold the “Master ON button”, until LEDs turn white. Brightness is adjustable and master mode is active.
2. For individual zones, press and hold the “Zone ON button” for the zone you want to control, until LEDs turn white. Brightness is adjustable and the last zone turned white is active.

Static Color Mode



1. For all zones, press the “Master ON button” once, to activate master mode. Use the color wheel to directly select a color.
   Brightness is adjustable.
2. For individual zones, press the “Zone ON button” once for the zone you want to control. Use the color wheel to directly select a color. Brightness is adjustable.

Controller Pairing

The LDRF-RGBW6-MZ features RF remote to controller device pairing to help eliminate interference from other nearby units. If you wish to control several controller devices from a single RF remote, the controllers first must be re-programmed.
The easiest and fastest way to re-program several controller devices at once is to have them share a power supply or all plug into a single power strip.
Once programmed you can provide power as you would otherwise, sharing is only needed for the programming phase to ease the

process — Re-programming can be done one device at a time also.

Controller Pairing:

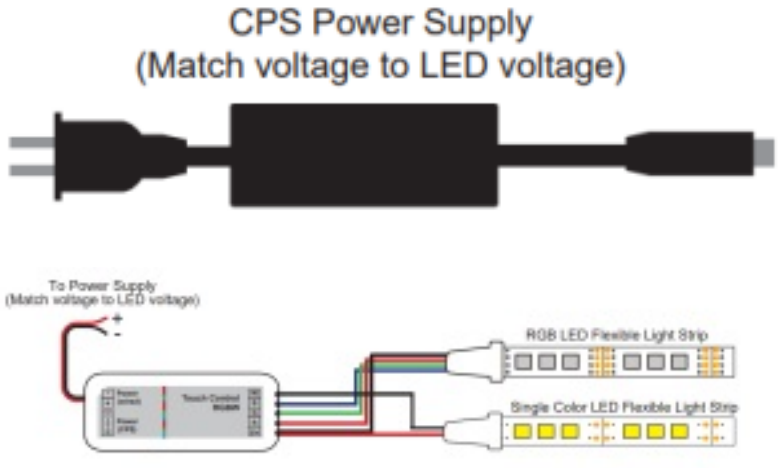
Pairing a remote to a controller:

1. Wire all controllers to one power supply or power strip and turn the power off.
2. Turn on the power supply or power strip and press the “Zone ON button” once within 3 seconds for the zone you wish to pair.
3. If successful the LED product will flash twice slowly.
   If the LED product flashes nine times quickly or not at all, repeat steps one and two.
   Unpairing a remote to a controller:

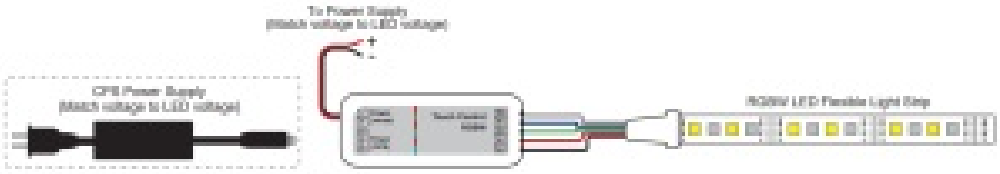
1. Wire the controller to a power supply or power strip and turn the power off.
2. Turn on the power supply or power strip and press and hold the “Zone ON button” once within 3 seconds for the zone you wish to unpair.
3. If successful the LED product will flash nine times quickly.
   If the LED product flashes twice slowly or not at all, repeat steps one and two.
   Pairing Note:

1. One remote can be paired to any number of controllers.
2. One controller can be paired to up to four remotes.

Wiring: Method 1



Wiring: Method 2



Specification

Type	RGB+W
Input Voltage	12-24 VDC
Output Current	10 A total, with up to 6 A per channel when used in single color mode s
Operating Temperature	-13°-140° F (-25°-60° C)
Wi-Fi Frequency	2.4 GHz
FCC ID	2AFRVFC24GRMT4
Remote Batteries	2 x AAA

***Note**: Max output will be limited to 6 A total (with up to 6 A per channel when used in single color mode) when using DC barrel input power.

FCC Statement

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications in the construction of this device that are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Modes List

Mode	Function	Description
1	Six Color Fade In/Out	Red, Yellow, Green, Cyan, Blue, and Purple fade in and out in a continuous repeating cycle.
2	White Fade In/Out	White fades in and out continuously
3	RGBW Fade In/Out	Red, Green, Blue, and White fade in and out in a continuous repeating cycle.
4	Seven Color Flash	Red, Green, Blue, Yellow, Purple, Cyan, and White cycle in a set pattern with flashing transitions.
5	Disco Random Pattern	Red, Green, Blue, Yellow, Purple, Cyan, and White cycle at random with flashing transitions.
6	Red Fade In/Out with 3 Flashes	Red increases to full brightness then flash 3 times.
7	Green Fade In/Out with 3 Flashes	Green increases to full brightness then flash 3 times.
8	Blue Fade In/Out with 3 Flashes	Blue increases to full brightness then flash 3 times.
9	All Pattern Mode	All 8 patterns above cycle through and repeat.

Safety

- Do not connect the controller directly to AC power. This controller requires a 12–24 VDC power supply.
- Do not exceed max load as listed in the spec table. Overloading the controller will cause overheating and possible failure of the controller.
- Ensure the power supply is not plugged into an outlet before connecting or disconnecting any of the components of the system.
- Do not expose the controller or remote to direct or indirect moisture.
- Always observe proper polarity when connecting wiring.

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Documents / Resources

	MiBOXER LDRF-RGBW6-MZ 2.4 GHz Wi-Fi Multi Zone RGBW Controller and Remote [pdf] User Manual LDRF-RGBW6-MZ, 2.4 GHz Wi-Fi Multi Zone RGBW Controller and Remote