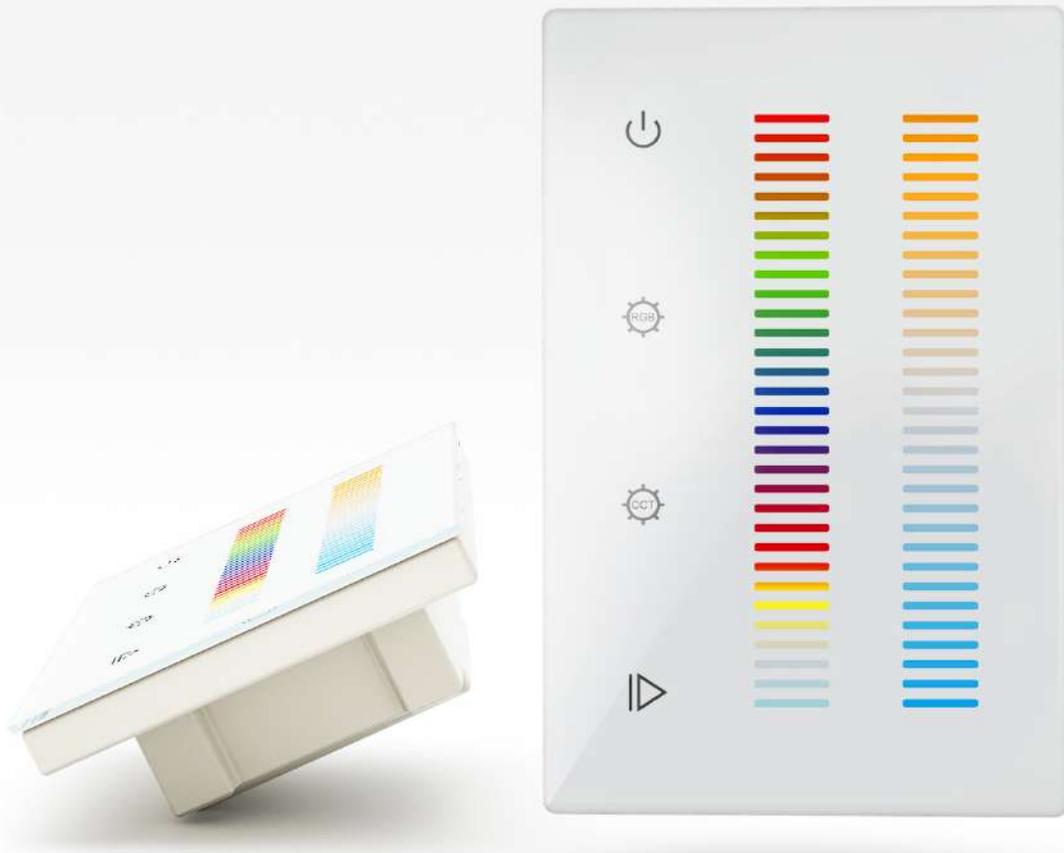


# RGB + Dynamic Tunable White **DMX Lite™ Controller**

Product Data Sheet



## Product Specifications

| Input Voltage                    | Output | Ambient Temperature          | Size   |
|----------------------------------|--------|------------------------------|--|
| 12-24V<br>Constant<br>Voltage DC | DMX512 | -20C to 40C<br>(-4F to 104F) | 4.72" x 2.95" x 1.15"<br>(12 cm x 7.5 cm x 3 cm) |

| IP Rating                             | Dynamic Modes | Zones | Power Save Memory | Power Consumption |
|---------------------------------------|---------------|-------|-------------------|-------------------|
| IP20<br>(Indoor/Dry<br>Location Only) | 10            | 1     | Yes               | < 20 mA           |

## Product Features

DMX512 Controller

Stylish glass interface

DC input and DMX output screw terminals

Fits in a standard US single gang box

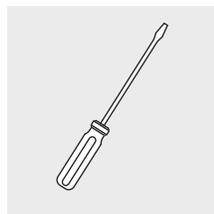
Mounting plate and screws included

Short circuit protection

Single Zone control

Works with 5-channel RGB+Dynamic Tunable White fixtures

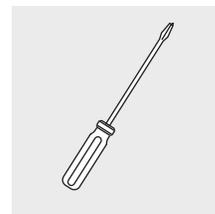
## Tools Needed



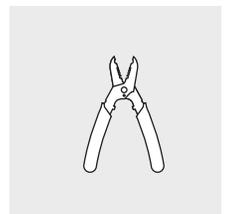
Flat-Head  
Screwdriver



Small-Flat Head  
Screwdriver



Phillips-Head  
Screwdriver

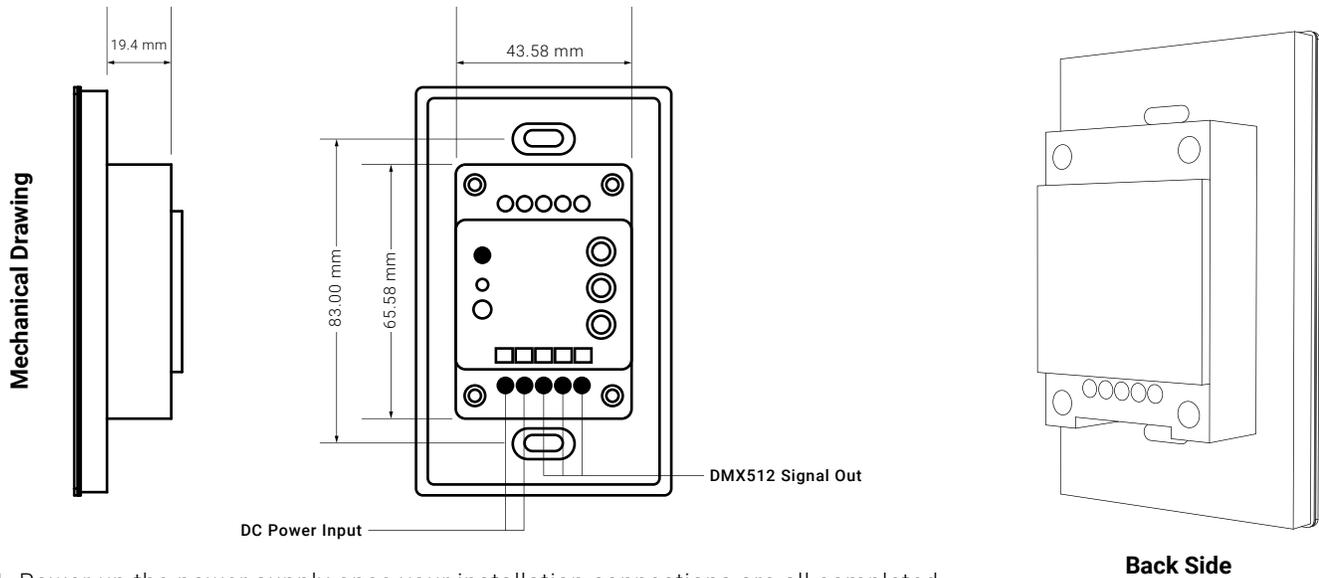


Wire  
Strippers



## Controller Wiring

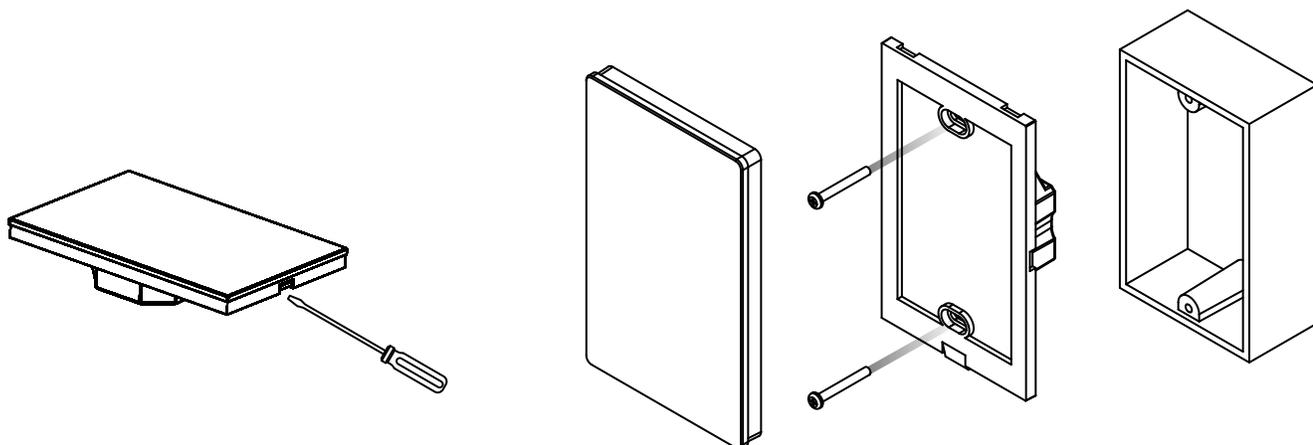
1. Ensure that you have a dedicated 12V or 24V constant voltage DC power supply to power the controller itself that is separate from the power supply you will be using for your light fixtures.
2. Connect the power supply using the screw terminals. Power supply positive and negative should be connected to "V+" and "-" terminals under DC Input, respectively.
3. Connect the DMX data cable to the DMX Output screw terminals. Data Negative will be the terminal marked "D-", Data Positive will be the terminal marked "D+", and Ground will be the terminal marked "GND." If you are using CAT5 cable for data wiring, the standard pinout scheme would have Solid Orange as "D-", Striped Orange as "D+", and Solid Brown as "GRD." Please see the diagram below:



4. Power up the power supply once your installation connections are all completed.

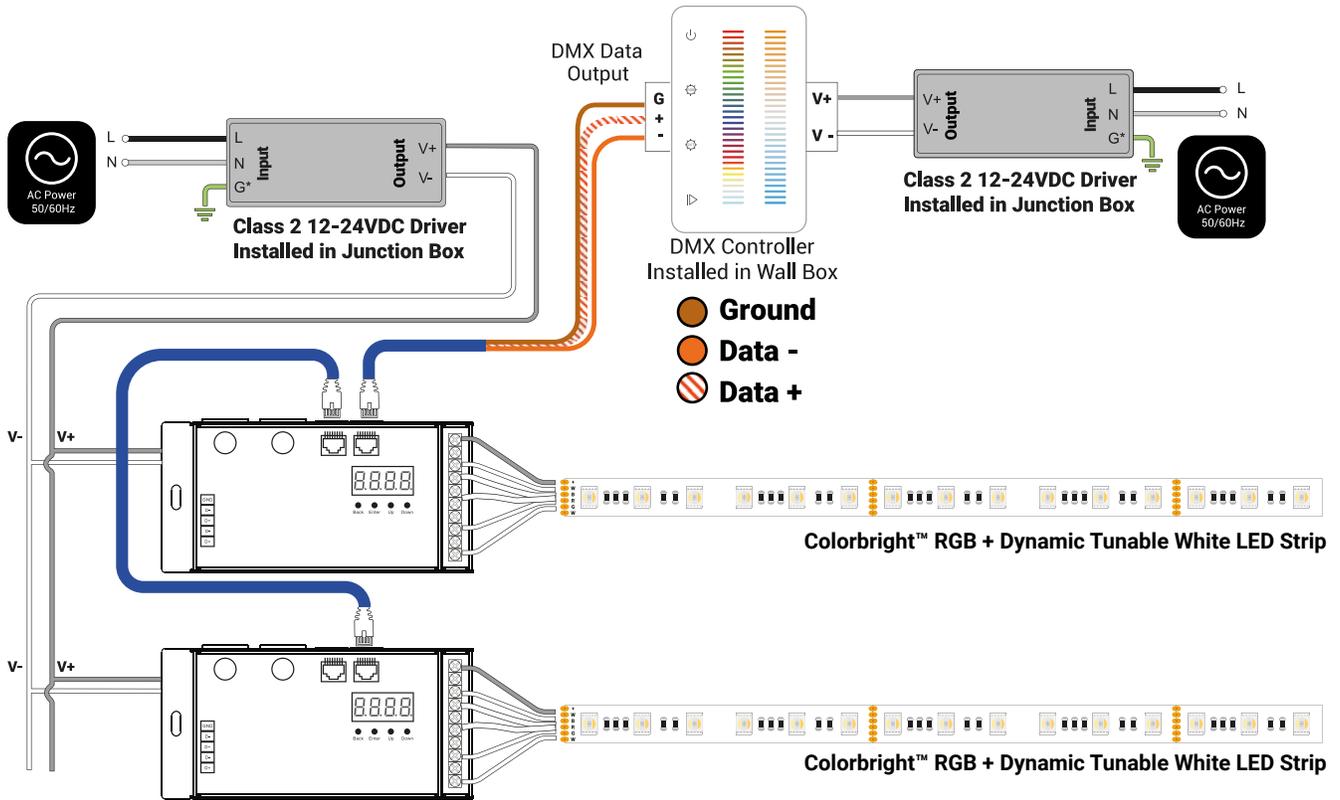
## Controller Mounting

To mount the controller into a single gang box, simply pop the faceplate of the controller off with a flathead screwdriver to expose the screw holes, screw it into a standard switch box with the screws provided, and replace the faceplate when done.

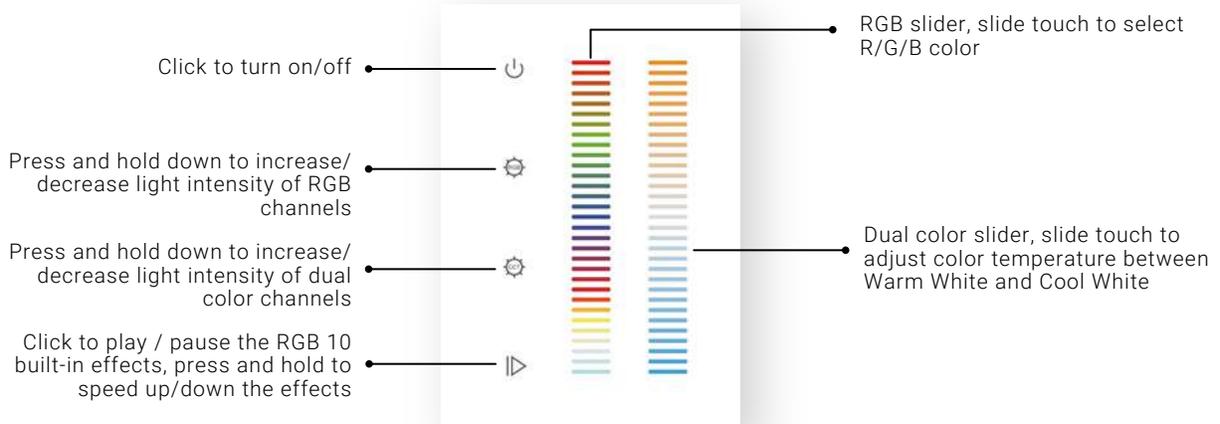


## System Wiring

To mount the controller into a single gang box, simply pop the faceplate of the controller off with a flathead screwdriver to expose the screw holes, screw it into a standard switch box with the screws provided, and replace the faceplate when done.



## Controller Functionality



## Dynamic Mode Guide

By pressing the button that looks like the Play symbol on the controller, you are able to access Dynamic Mode which consists of ten basic preset scenes loaded onto the controller. Short pressing the button switches/pauses the mode, while long pressing the button adjusts the speed of the current mode. Below is a chart of the scenes available.



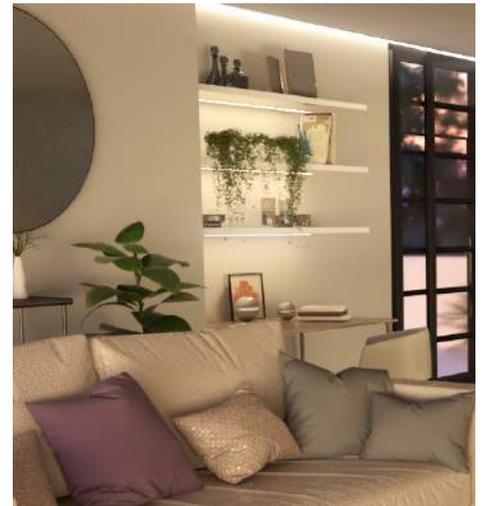
| Mode | Description                   |
|------|-------------------------------|
| 1    | Full Color Fade #1            |
| 2    | Reverse Rainbow Fade          |
| 3    | Random Full Color Fade        |
| 4    | 7 Color Jump                  |
| 5    | RGB Fade in/Fade Out          |
| 6    | RGB Fade in to Off            |
| 7    | RGB On to Fade Out            |
| 8    | RGB Jump                      |
| 9    | Full Color Fade #2            |
| 10   | Pastel Color Fade in/Fade Out |

## Zone Setting

This controller is capable of controlling a single zone of DMX fixtures that have up to 5 channels. The zone is designated by addressing your fixtures as follows:

**Zone 1:** Address to 001

Multiple fixtures can be set to the same 001 address in order to control all of the fixtures at the same time.



## Troubleshooting

---

### Lights not responding to the controller?

1. Make sure that the blue indicator light is on by pressing the power button. An amber indicator light signals that the controller is off, but the blue indicator light will blink when you press down on any key on the controller.
2. Make sure that the DMX fixture is addressed properly. Remember, the zone will only work when the DMX decoder is addressed to the 001 address mentioned in the "Zone Setting" section of this datasheet.

### Lights responding incorrectly?

1. Make sure that all wiring connections are correct per the wiring instructions mentioned above. Reversing the **Data +** and **Data -** wires can cause lights to flicker and not respond to the controller.
2. **Data -** wires can cause lights to flicker and not respond to the controller.
3. Check the power connections of all components (controller, fixtures, drivers, etc).
4. Check DMX data connections.
5. Check DMX fixture connections.

## Warranty Information

---

### Limited Warranty

This product has a 5 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at: <https://www.flexfireleds.com/warranties/> within the Policies section. For warranty related questions please contact the product support team at [support@flexfireleds.com](mailto:support@flexfireleds.com).

### Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser. This limited warranty does not include product failures that are the result of: Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

## Contact Information

---

 **Toll Free Number:**  
1-844-353-9347

 **Local Number:**  
(925) 273-9080

 [www.flexfireleds.com](http://www.flexfireleds.com)

 [support@flexfireleds.com](mailto:support@flexfireleds.com)

