Before you begin, read all warnings and installation instructions thoroughly.
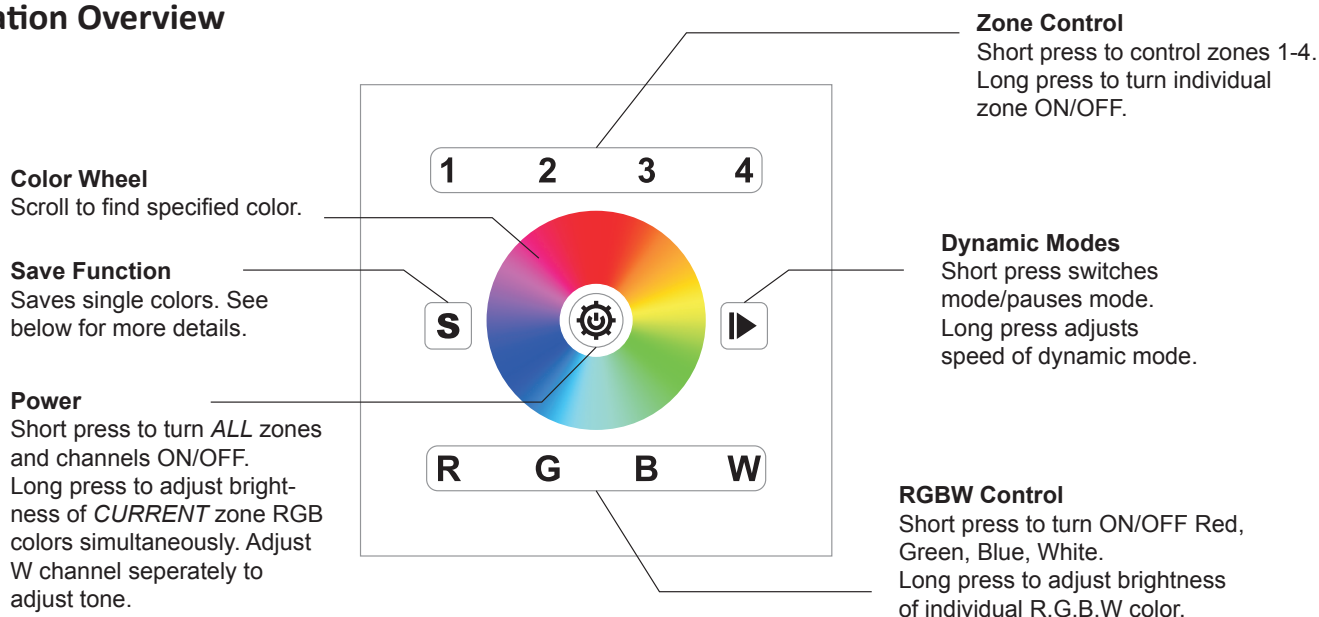
Safety & Warnings

- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Install in accordance with the National Electric Code, and local regulations.
- Do not connect directly to high voltage 120V AC power. Only power with a compatible 12-24V DC constant voltage driver.
- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires and cause fire.
- This product is rated for indoor installation and is not protected against moisture.
- Do not disassemble or modify this product beyond the instructions in this guide or the warranty will be voided.
- Utilize the wiring diagrams in this installation guide for basic installations. For more complex installations, please contact technical support.

Included Items

- RJ45 Splice Cable
- RJ45 Coupler
- Square-Pro Junction Box

Operation Overview

Zone Control
Short press to control zones 1-4.
Long press to turn individual
zone ON/OFF.

Color Wheel
Scroll to find specified color.

Save Function
Saves single colors. See
below for more details.

Dynamic Modes
Short press switches
mode/pauses mode.
Long press adjusts
speed of dynamic mode.

Power
Short press to turn *ALL* zones
and channels ON/OFF.
Long press to adjust brightness of *CURRENT* zone RGB
colors simultaneously. Adjust
W channel seperately to
adjust tone.

RGBW Control
Short press to turn ON/OFF Red,
Green, Blue, White.
Long press to adjust brightness
of individual R,G,B,W color.

Save Function

Up to 16 total static colors can be saved, 4 colors per zone. To save a color:

1. Choose a zone to operate in (1, 2, 3, or 4).
2. Select a color to save by using the color wheel or by adjusting each R, G, B, and W setting.
3. Once the desired color is visible, long press the 'S' key until the blue indicator light on the controller flashes.
4. Short press 1, 2, 3, or 4 to save the color. LEDs will flash once save is complete.
5. To achieve your saved color:

    a. Choose the zone to operate in (1-4).
    b. Short press the 'S' key.
    c. Press the number the color was saved in (1-4).

Remote Operation

The DMX controller can also be controlled remotely via WiFi with a compatible IOS/Android tablet or mobile device using the application 'EasyColor Pro.'

Please see the DMX controller product web page for 'EasyColor Pro' instructions.

Installation

Install in accordance with the NEC and local regulations.

1. Turn power OFF at main circuit breaker.

2. Determine an accessible location for a compatible driver to be installed between the main breaker and DMX controller. Determine a location to install additional accessories such as DMX decoders, fixtures, etc. Ensure applicable wire is installed between all components. When choosing wire, factor in voltage drop, amp rating, and type to prevent fire or electric shock.

3. Remove the existing wall plate and switch. Pull switch from wall.

4. Identify wires and disconnect from switch.

5. Remove existing switch box from wall and install the included DMX controller switch box. Additional tools may be required to fit DMX controller switch box in the wall.

6. Make wiring connections. See 'Wiring Connections' and 'System Diagram' for additional information.

7. Replace wiring back into switch box. Mount and align controller. See 'Mounting.'

8. Turn power ON at main circuit breaker, and address DMX decoders/fixtures. See 'Setting the DMX Address.'

Wiring Connections

DO NOT connect directly to 120VAC.
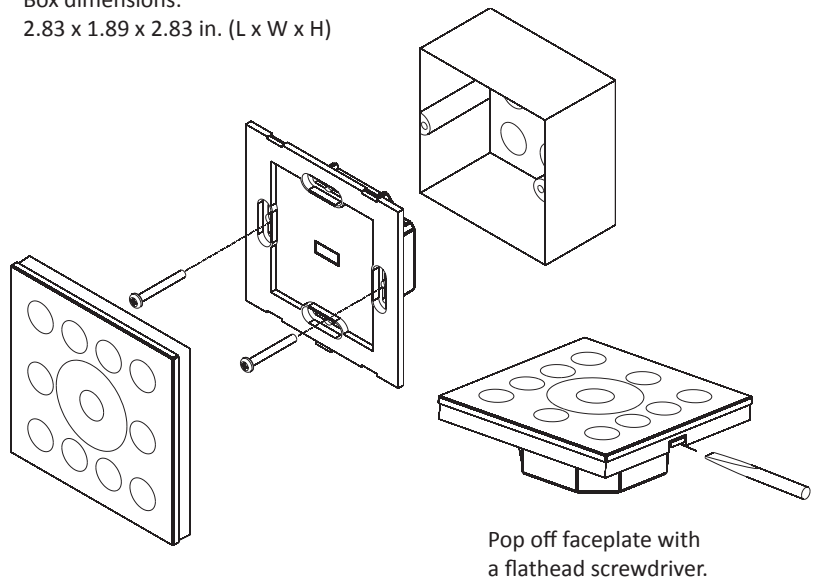*See 'System Diagram' for a general system design.*

From 12-24V Driver

To DMX Decoder or DMX Fixture

GND (V-)
Vin (V+)
Data -
Data +
GND

Reset Switch
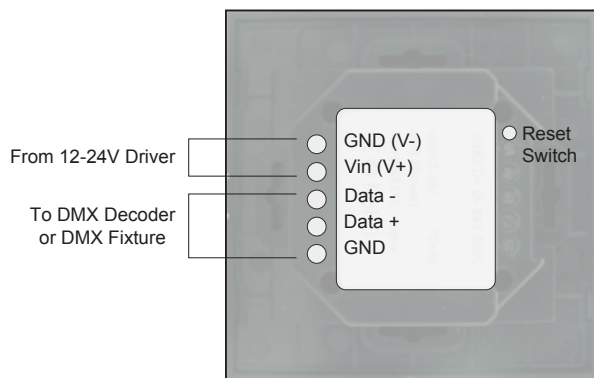
Mounting

Install with the included DMX controller wall box.

Box dimensions:
2.83 x 1.89 x 2.83 in. (L x W x H)

Pop off faceplate with a flathead screwdriver.

Setting the DMX Address

Each DMX decoder or DMX fixture needs to be addressed correctly so the controller can distinguish between each one. To pair a DMX decoder or fixture to a specific zone of the controller (1-4), set each decoder/fixture to one of the following addresses:

- Zone 1: Set to address '001' (will be fixed to address 001 – 004)
- Zone 2: Set to address '005' (will be fixed to address 005 – 008)
- Zone 3: Set to address '009' (will be fixed to address 009 – 012)
- Zone 4: Set to address '013' (will be fixed to address 013 – 016)

Each zone of the controller is fixed with 4 DMX addresses to control the 4 channels:
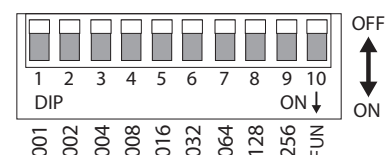
CH1 – Red, CH2 – Green, CH3 – Blue, CH4 – White or X.

Examples of DMX Addressing Displays
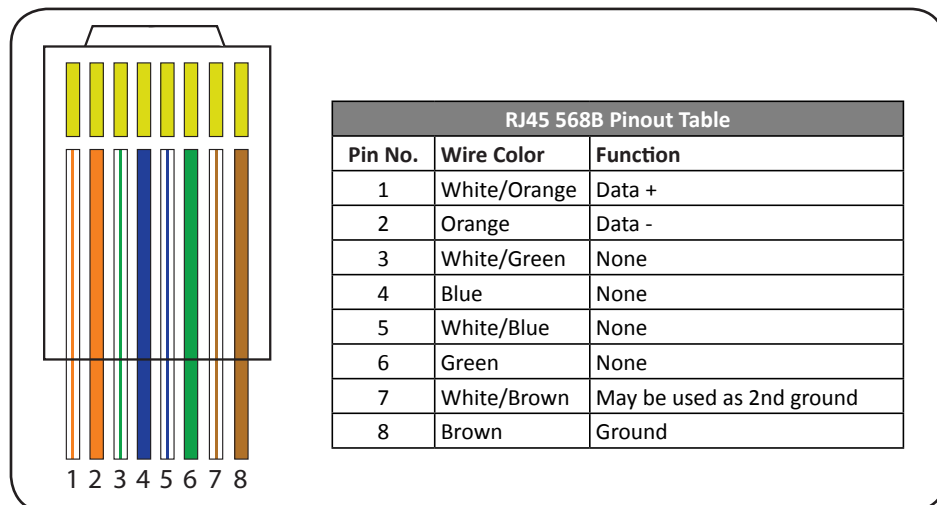
Digital Display

Dip-Switch Display

OFF

ON

DIP

ON

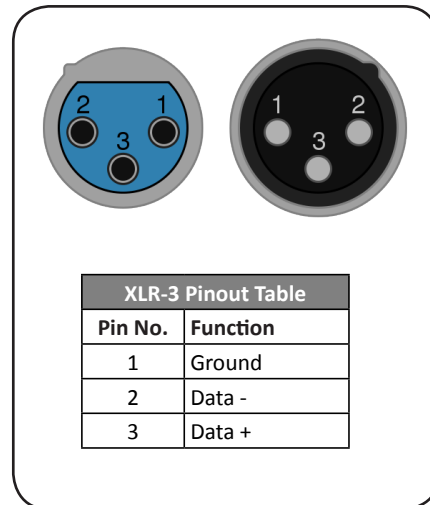001 002 004 008 016 032 064 128 256 FUN

Pinout Connection Guide

The following diagrams/tables indicate the appropriate connections for patching your own CAT5/RJ45, and XLR-3 splice cables. These diagrams are for general reference and may slightly differ between different cable manufacturers.

RJ45 568B Connection Pinout

XLR-3 Connection Pinout

RJ45 568B Pinout Table		
Pin No.	Wire Color	Function
1	White/Orange	Data +
2	Orange	Data -
3	White/Green	None
4	Blue	None
5	White/Blue	None
6	Green	None
7	White/Brown	May be used as 2nd ground
8	Brown	Ground

1 2 3 4 5 6 7 8

XLR-3 Pinout Table	
Pin No.	Function
1	Ground
2	Data -
3	Data +

Troubleshooting

For thorough troubleshooting of LED strip light and fixtures, see LED fixture installation guides.

LED fixtures not responding to touch

1. Ensure the blue indicator light is on by pressing 'Power.' The indicator light will blink rapidly when pressing/holding any key on the touch pad.
2. Ensure the appropriate zone number was pressed prior to controlling the DMX decoder/fixture. For example, if you know the fixture is addressed to zone 1, press '1' prior to controlling.
3. Ensure the individual zone has not been turned off. Long pressing zones 1-4 will turn the specific zone ON/OFF. Additionally, long pressing R, G, B, W will increase/decrease individual brightness and short pressing will turn R, G, B, W ON/OFF.
4. Ensure the DMX decoder/fixture is addressed properly. For example, address '001' will respond to zone 1 of the controller. See 'Setting the DMX Address' for additional addressing information.

LED fixture responding incorrectly

Ensure all wiring connections are correct. Reversing the Data + and Data - will cause lights to flicker and not respond to controller.

5. Power connections of all components (drivers, DMX decoders/fixtures, DMX controller).
6. DMX Data connections - See 'Pinout Connection Guide' and 'System Diagram' for RJ45 hard-wiring connections.
7. DMX decoder PWM output connections – See 'System Diagram' for CH 1-4 connections.

For additional questions and concerns regarding installation or operation of this product, please contact technical support.

Please have all product part numbers on hand for fast and efficient technical assistance.

System Diagram

The following diagram is provided as an example system design. CAT5 (RJ45 connections) data cables are the most cost-effective solution for transmitting DMX-512 signals. XLR-3 cables may also be installed but require an additional adapter for connecting to DMX decoders. Always review each component installation guide for detailed and up-to-date wiring instructions. Install in accordance with NEC and local regulations.

DMX Controller
Installed in Wall Box‡

Class 2 Low Voltage Driver**
Installed in Junction Box‡

Data Output
to DMX Decoder

Power
Input

AC Power
50/60Hz

L
N
G*

Input

Output

V+
V-

G
+
-

Power input of DMX controllers may vary. See DMX controller specifications to ensure appropriate high or low voltage power input.

RJ45 Splice Cable Wiring Connections

Brown → Ground
White/Orange → Data +
Orange → Data -

CAT5 Data Cable (RJ45 Connections)

RJ45 Coupler

RJ45 Splice Cable

Install applicable wire gauge / type

V- V+

V+
V-

Data IN

Data OUT

0-5 0-9 0-9

V+
CH1 - R
CH2 - G
CH3 - B
CH4 - W

V+ → V+
CH1 → R

CH2 → G
CH3 → B

RGB Strip Light / Fixture‡‡

DMX Decoder

V- V+

V+
V-

Data IN

Data OUT

0-5 0-9 0-9

V+
CH1 - R
CH2 - G
CH3 - B
CH4 - W

V+ → V+
CH1 → R

CH2 → G
CH3 → B
CH4 → W

RGBW Strip Light / Fixture‡‡

DMX Decoder

CH4 - W connection only utilized for RGBW / RGB(X) installation.

Female RJ45 / XLR-3 Adapter

Wall Washer / DMX-512 Fixture‡‡

AC Power
50/60Hz

* Driver may not require a fault ground connection. Refer to driver specifications for additional information.

** Install a compatible Class 2 constant voltage driver. It is recommended to load the driver no more than 80% its labeled rating for maximum longevity.

‡ Refer to driver specifications for a compatible junction box.

‡‡ See fixture specifications for maximum series run limits.

V 1.0