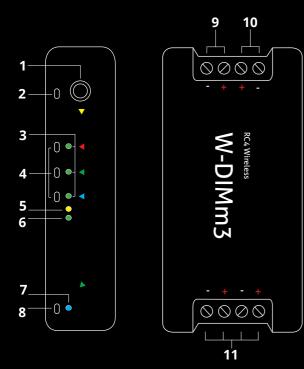




W-DIMm3 Quick Start Guide

Rev. 1.0



RC4 W-DIMm3

- 1. DMX In/Out Data Port
- 2. Function Button
- 3. DimA DimC Indicators
- 4. SetA SetC Buttons
- 5. DMX Data Indicator
- 6. Function and COP Indicator *
- 7. RF Connect Indicator for Transmitter Linking
- 8. RF Connect (Link) Button
- 9. DimC Load Connection Terminals (Dimmer Output)
- 10. Power Input Connection Terminals
- 11. DimA and DimB Load Connection Terminals (Dimmer Output)

NOTE: Screwdriver Required for Wire Connection to Terminals

* COP means "Computer Operating Properly." This indicator always shows a blink pattern, proving that internal firmware is running. Different patterns indicate various modes and advanced settings.

W-DIMm3 Quick Start Guide

This guide will get you started using your RC4 W-DIMm3. Most W-DIMm3 users will find all the information they need right here.

Your W-DIMm3 also has a wide variety of expanded features for advanced users. You can find out more about all of them in the RC4 Knowledge Base at http://rc4.info.

Registering Your Product

Registering your W-DIMm3 is quick and easy. After registration, you'll be notified of new firmware updates, and warranty claims can be resolved more quickly.

Please complete your registration at: www.rc4wireless.com/support/register/

W-DIMm3 System Components

To use your W-DIMm3 wireless dimmer you will need:

- A DMX lighting console.
- A Wireless Solution W-DMX compatible wireless transmitter like the Wireless Solution BlackBox F1 or Micro F-1.
- A battery or DC power supply for the dimmer and loads you will be operating with it.

Screwdriver Size Matters

The ideal screwdriver for the screw terminals on your W-DIMm3 has a blade that is 2.5mm (0.1") wide.

Forcing a screwdriver that is too big will enlarge the hole, so the terminal screws will fall out if you loosen them too much.

A screwdriver that is too small will not ensure a firm grip on the wires and may lead to the screw head being stripped.

Performing a Factory Reset

If someone else has used your W-DIMm3, or you just want to get back to a known configuration, performing a factory reset is easy:

Power on the device. The green COP indicator will be blinking.

Press and hold Func, briefly tap (press and release) the SetA button, then release Func. Four indicators will blink to confirm that factory settings are restored.

NOTE: This does NOT affect transmitter linking.

PRO TIPS:

Bending a single paper clip into a U shape will enable you to easily reach and press both buttons together.

If you are not sure what mode or setting you may have selected, you can always get back to a known starting point by returning to factory default.



Unlink the W-DIMm3

If the blue RF Connect LED on the W-DIMm3 blinks continuously, it is looking for a transmitter that it was previously linked with.

To unlink it, press and hold RF Connect for several seconds until the blue LED goes off and stays off.

If the RF Connect LED remains on, or is blinking, repeat the process until it stays off.

When the RF Connect LED is off, the W-DIMm3 is ready to be linked to your transmitter.

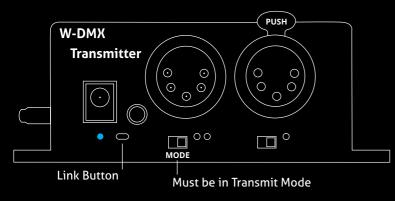
NOTE: Link status is not affected by performing a Factory Reset.

Linking Transmitter and Receiver

Ensure your transmitter, regardless of make or model, is set to transmit mode. Have both the transmitter and the W-DIMm3 powered on. *Be sure the W-DIMm3 is unlinked* (see previous page).

Locate the Function button (sometimes called Link, or Pair) on your transmitter. Press it until the Link indicator starts blinking. The blue RF Connect LED on the W-DIMm3 will also begin blinking. After several seconds, the indicators on both devices will stay on, indicating that they are linked.

NOTE: Indicators might blink with a different pattern if no DMX data source is present. Refer to the User Manual for your particular transmitter to ensure you are executing the Link procedure correctly.



Test the Wireless Link with Default Address Settings

When you receive your new W-DIMm3, or after restoring default settings, it will be set to DMX address 1 for dimmer A, address 2 for dimmer B, etc.

Before changing any dimmer settings, play with the DMX levels for these addresses and see your wireless dimmer outputs work.

The DimA, DimB, and DimC LED indicators on the side of the W-DIMm3 are directly connected to dimmer outputs: they show you exactly what the dimmers are doing.

Setting the DMX Address

Assigning DMX channels and dimmer curves is easy using RC4 OneTouch™:

On your DMX lighting console, bring up one dimmer (DMX output channel) that will be your W-DIMm3 starting address. For example, if you want your first W-DIMm3 dimmer on DMX channel 60 with a curve that is optimized for LEDs, bring up 60 @ 30% at the console. Tap SetA and the DimA indicator will come on @ 30%.

The level of 30% selects one of several different curves. This one is optimized for LEDs. Other curves are explained on page 13.

Subsequent Channel Assignment

When you set DimA, the other dimmers are automatically set sequentially. For example, if you have set DMX channel 60 for DimA, DimB is now assigned to channel 61, and DimC is now on 62.

Non-Sequential Channel Assignment

Dimmers don't have to be sequential.

You can use RC4 OneTouch[™] with the Set buttons for each individual dimmer. For example, if you want DimB to be set to DMX address 11, bring up 11 @ 30% (for the LED curve) at the board and press the SetB button.

Remember: SetA assigns all 3 dimmers sequentially. The other Set buttons work individually. Always use SetA first.



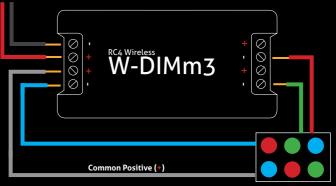
Connecting Your Lamps, LEDs, Motors and More*

To really use your W-DIMm3, you must connect a lamp, LED, motor, or other load to each dimmer. When you're connecting anything to your W-DIMm3, be sure that the W-DIMm3 is powered down. Connect everything first, then turn on power.

* The W-DIMm3 can control a variety of devices including solenoids, relays, servo motors, and much more.

Power Input: 6 - 35VDC Do not exceed voltage

rating for connected loads.



The illustration on the page 11 shows an RGB color mixing LED device. There are 4 wires: a black wire for the 12V common positive (+), and three colored wires, red/green/blue for the three unique negative leads. The color of the common positive may vary, it is not always black.

The common positive wire should be connected to the (+) under DimC. All of the (+) terminals are connected together inside the W-DIMm3. Using the DimC (+) connection is recommended because it is closest to the power input (+) connection, reducing heat and resistance along the positive leg of the circuit.

Dimming happens on the negative (-) terminals.

The red wire should be connected to the negative (-) terminal under DimA. The green wire should be connected to the negative (-) terminal under DimB. The blue wire should be connected to the negative (-) terminal under DimC. The W-DIMm3 default is the ISL dimmer curve, which is best for LEDs. This is also the curve that is selected with RC4 OneTouchTM when the DMX level is at 30%.

There are dimmer curves for different kinds of lamps, motors, and more. Detailed information can be found online by searching dimmer curves at http://rc4.info/.

The most common curves are selected using these DMX channel levels and RC4 OneTouch[™] with the Set buttons as outlined on page 9:

Non-Dim	100% (80% or higher) Use for relays, solenoids, air valves, etc.
Linear	70% (60 - 79%) For incandescent, halogen, tungsten lamps.
ISL Fast	50% (40 - 59%) For LEDs when fast blinks and flashes are required. RC4 Digital Persistence™ is disabled.
ISL Slow	30% (20 - 39%) Best for typical LED applications, with RC4 Digital Persistence™ For super smooth 19-bit dimming. (default setting)

Advanced Features

The W-DIMm3 is a multifaceted device for users of all experience levels. The features below can be explored further at *http://rc4.info/* or by asking us for help at *support@rc4wireless.com*:

- Using a small adaptor cable, the W-DIMm3 can be used as a wireless data receiver to deliver DMX to other devices. It can also be used as a wired DMX dimmer: the miniplug DMX port becomes an input when the device is not linked to a transmitter.
- When using the W-DIMm3 for cinema (motion picture capture), PWM frequencies can be adjusted for the smoothest dimming without banding or other artifacts.
- The W-DIMm3 has a wide variety of dimmer curves that can ring telephones, position servo motors, and more.
- Using the RC4 Flkr Effects Engine[™], you can create many unique effects including candle flicker, analog tv screen noise, welding spark, and much more.
- An HSL (Hue/Saturation/Level) processor can be enabled, making it easy to find a specific color and dim it up and down without color variation.

Caring for Your W-DIMm3

- The W-DIMm3 should not be used with AC power or with any voltage higher than 35VDC. Doing so will severely damage the device and is extremely dangerous for the operator.
- Do not exceed the maximum total power handling of the W-DIMm3, which is 16A. That is 200W at 12V, 400W at 24V, shared across the three dimmer channels.
- Always use a fuse or circuit breaker at the source of power and always use an appropriate wire size for the fuse rating. For example, if using a 15A fuse, use wire that can safely carry 15A.
- The W-DIMm3 should be kept away from excessive heat, cold, dust and moisture.
- Do not immerse in water or other fluids.
- Dimmers generate heat when operating. Allow space for air to move around the unit for cooling, especially when using high-current loads.

The W-DIMm3 is a high-power, high-current device. Failing to observe appropriate safety precautions can result in fire or other risk. RC4 Wireless cannot be held responsible or liable in such cases. Operate the W-DIMm3 at your own risk.

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We're here to help you at any time.



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