



LED Dimmer With RF Wireless Touchpad

Model # DIM2IN1-RF

Provides full range dimming for low voltage white LED lighting. Dimming LED lights will reduce watts used, save energy, and extend LED life. Works with both 12V DC and 24V DC LED lighting, not for use with RGB color-changing LED lighting.

Dimmer receiver features a rotary knob controller for precision dimming and a unique design that allows for either wall installation or surface mounting of the unit. Remote wireless touchpad dimmer switch uses RF technology to work through walls and doors up to 100 feet away. Designer-style touchpad can also be wall mounted. Requires a 12V 23A battery, included.

Note: If you purchase more than one unit, multiple channel codes allow for various options based on the lighting configuration:

- **Unique or separate channel codes:** Allows each unit to independently switch and dim multiple zones of LED lighting in the same building without interference.
- **Same channel codes:** Allows one wireless touchpad to control several dimming receivers in unison for expanded single zone lighting control.

For questions concerning codes, email support@armacostlighting.com.

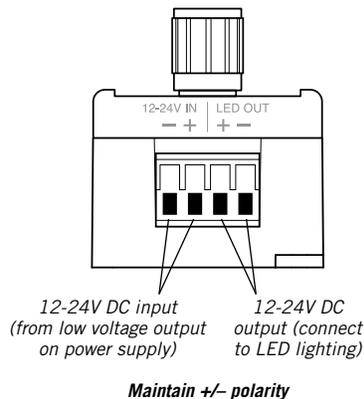
INSTALLATION GUIDELINES

Dimmer receiver unit (master)

- For dry location use only.
- For use only with 12V DC or 24V DC low voltage single color LED lighting. Do not connect this device to 120V AC current.
- Suitable for RV and boat interior applications (dry location only), this device can be direct wired to an on-board 12V battery.
- Do not exceed 96 watts of lighting when used with 12V LEDs or 192 watts when used with 24V LEDs.
- All wiring must be in accordance with national and local electrical codes, low voltage Class 2 circuit. If you are unclear as to how to install and wire this product, contact a qualified electrician.

Disconnect the 120V AC power to your LED power supply prior to hook up and wiring.

- Be sure to maintain + / - polarity. Failure to observe polarity or shorting of wires may damage the dimmer.
- Use only insulated staples or plastic ties to secure cords and wires.
- Route and secure wires so they will not be pinched or damaged.
- For wire runs inside of walls, use certified CL2 or better cabling and appropriate mounting hardware.
- Do not install Class 2 low voltage wiring in the same runs as AC main power. If AC and low voltage wires cross, keep them at 90-degree angles.
- For better brightness and color consistency, keep voltage drop to a minimum.

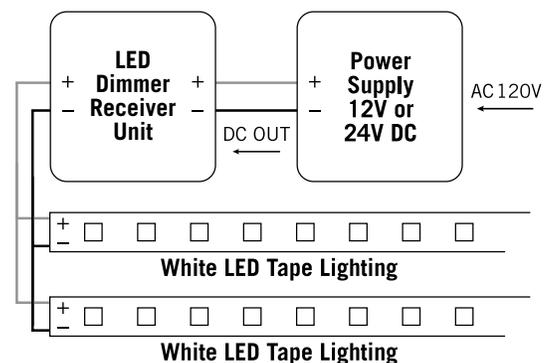


About voltage drop

Voltage drop is a natural occurrence in all low voltage lighting systems. It is the gradual decrease in voltage that occurs along the length of your low voltage power feed wires to your LED lighting. It is a function of wire length, wire thickness, and the total watts used by your LED lighting. Voltage drop only becomes undesirable if you notice the brightness in one area of your lighting is objectionably different than in another area. As a practical approach to installing LED lights, test your lighting prior to final installation. If voltage drop appears to be a concern, use shorter power feed wires, switch to a heavier gauge wire (lower AWG number), or reduce the number of LED light fixtures.

For an online voltage drop calculator, visit armacostlighting.com/installation.

Typical Application

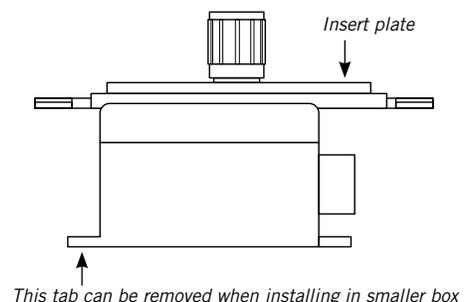


To convert dimmer receiver unit for in-wall installation

Carefully remove rotary knob and install supplied insert plate on top of dimmer as shown. Secure with supplied washer and hex nut. Dimmer can now be mounted into standard switch box. Finish by installing designer-style switch cover plate (sold separately at most home improvement stores).

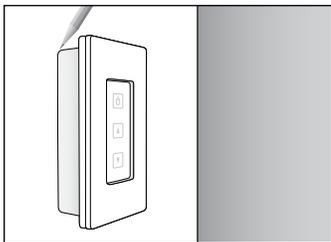
Installation tips:

- When dimmer is installed in smaller electrical boxes, create more space for wires by removing top mounting tab.
- Remove green quick connect terminal block for easier wire routing. Route wires with terminal block then snap terminal block back into dimmer. **Observe the polarity printed on the dimmer case** and maintain same sequence on terminal block while securing wires.

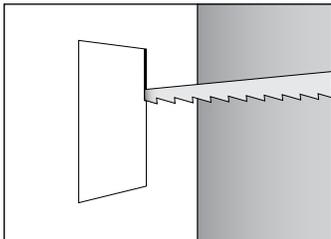


Mounting of wireless touchpad

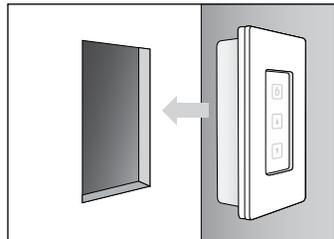
First, install supplied battery, making sure to observe proper + / - polarity. Then snap-down decorative cover plate on transmitter.



After determining desired mounting location, place Wireless Touchpad case against wall and trace outline of back edge. Use a stud finder to avoid hitting studs or wiring.



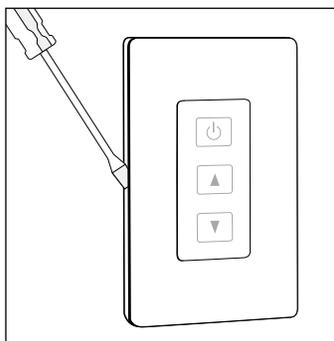
Cut hole in wall.



Apply a bead of silicon glue or construction adhesive on back side of wall plate and slide touchpad into wall.

Battery replacement

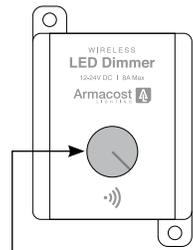
To reach battery compartment, use a thin screwdriver to carefully pry off switch cover plate. Replace with alkaline 12V 23A battery.



OPERATION

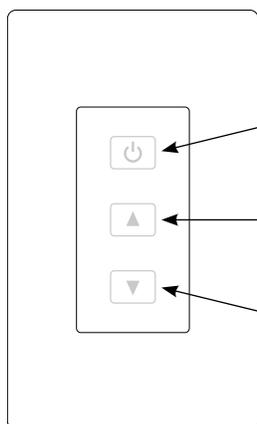
This device consists of a master dimmer receiver and a wireless touchpad transmitter. You can use either the rotary knob or the wireless transmitter keys to control the brightness of your lighting. If you primarily use the wireless transmitter to operate your lighting, it is best to leave the rotary knob at the full right or full bright position.

Master dimmer receiver, receives signal from wireless transmitter.



Turn rotary knob to full right for 100% brightness

Wireless transmitter



On/off key (press and hold, do not tap)

Press and hold to increase brightness

Press and hold to dim lighting

In the event of a power outage, once power is restored to your LED lighting, the brightness will be at the level where the rotary knob on the receiver unit was last set, not the last setting on the wireless touchpad. This is also true if the lights are switched off by turning off the power supply.

TROUBLESHOOTING

The master dimmer receiver doesn't appear to be working

When you turn the rotary knob, do the lights come on and dim up and down properly? If not, check all connections to be sure you have maintained + / - polarity and have not reversed the wire inputs to the green terminal block on the dimmer. Be sure this connector is plugged in and seated correctly. If all connections are good and lights still do not come on, bypass the dimmer. If lights do come on, you may have a defective dimmer receiver. Contact customer support at Armacost Lighting.

The wireless transmitter does not work, or has stopped working

First, check to see if someone has turned "off" the lighting using the rotary knob on the master dimmer receiver, which effectively has dimmed the lighting to 0%, so pressing the on/off button on the transmitter will have no effect and appear to do nothing. You are simply sending an "on/off" command to the dimmer receiver which is set at 0% brightness.

Therefore, to turn the lighting on from the transmitter when the receiver unit is set to 0% brightness, you must press and hold the arrow up key on the touchpad. This will gradually increase the brightness of your lighting. The on/off touchpad will then be functional when the LED lights come back on.

If pressing and holding the arrow up key does not increase brightness then the wireless transmitter on/off key was last pressed to "off" and the arrow buttons will not function. Simply press the on/off key once again to activate the unit, then press and hold arrow up to resume desired LED brightness level.

Again, if you primarily use the wireless transmitter to operate your lighting, it is best to leave the rotary knob at the full right or full bright position.

IMPORTANT

If the master receiver is not working, the wireless transmitter will not work. Turn the rotary knob on the master dimmer receiver to full right for full brightness. Then, on the wireless transmitter, press, hold, and release the on/off key on the transmitter touchpad. Note: If you only "tap" this touchpad, you may feel a slight detent, but the switch still may not make work. Press and hold touchpad for a half second. The lights should go off, the transmitter is working properly. If not, please contact customer support at Armacost Lighting.

If your power supply is connected to an outlet controlled by a wall switch, be sure the switch is on and the power supply is on.

Be sure your transmitter is in range of your receiver. This dimmer is a radio frequency (RF) device and, as such, the range of the wireless remote control is dependent on many factors. Actual operational distance will vary based on walls and line of sight obstructions, and other nearby electronic devices.

Be sure your battery is operational. To check battery, press the on/off button in a dark room/location. When pressed, you should see a glowing, red LED inside the unit which means the battery is working. If you do not see a red light, replace battery (Alkaline 23A 12V).

SPECIFICATIONS

Input voltage.....	12V-24V DC
Output current.....	.8A
Max load with 12V DC lighting.....	96 watts
Max load with 24V DC lighting.....	192 watts
Working temperature.....	-4~140°F (-20~60°C)
Wireless working frequency.....	433.92Mhz
Battery.....	Alkaline 23A 12V
Listings.....	CE, RoHS, FCC, CSA

This item is a Radio Frequency Device (RF), and as such the range of the remote control is dependent on many factors. Actual operational distance will vary based on walls and line of sight obstructions, and other nearby electronic devices.

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. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Limited 2-year warranty. This product is for dry location use only. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void warranty. Proof of purchase is required for all returns. Questions? Email support@armacostlighting.com.



Conforms to UL Standard 8750

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