

LED RGB Dual Output Controller

Installation instructions for LED-4WR-490CTRL

WARNING: These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with the owners manual, current electrical codes and/or the current National Electric Code (NEC).

CAUTION – To reduce the risk of fire, electric shock or injury to persons:

1. All units must be unplugged before installing or servicing in any way.
2. Do not route cords or linear lighting through walls, doors, windows or any similar part of a building structure.
3. Controller housing is suitable for outdoor use (rated IP44), however when using outdoors, all power, DMX and output connections must be properly sealed with shrink tube and silicone and/or housed in a weatherproof enclosure.
4. Do not use if there is any damage to the unit, its lens and/or power cord's insulation. Inspect periodically.
5. Do not submerge in water or liquids.
6. Secure controller to surface using mounting hardware appropriate for the mounting surface. Do not secure unit's power cord, output cables or input cables with staples, nails or the like that may damage insulation.
7. Do not attempt to open or service the fixture. None of its parts are serviceable by the user.
8. For use with 100 - 120V supply voltage only (AC or DC) and less than 6A per output.
9. Do not exceed the maximum connected load for either 6A output cable. Verify maximum run(s) of linear lighting prior to installation. See reverse for maximum run distances.
10. This product has a polarized grounded plug as a safety feature to reduce the risk of electric shock. Do not cut the plug off or alter it in any way.
11. Periodically inspect wire and cable connections for degradation due to weather, UV light or other damage. Promptly re-seal any connections that exhibit degradation.
12. Operating temperature must be between -20°C and 45°C (-4°F and 113°F). Avoid high ambient temperatures.
13. Avoid direct contact with liquids.
14. Disconnect power at source prior to wiring, repairing or servicing in any way.

Controller Detail



- A) DMX Out (female XLR-3 connector)
- B) DMX In (male XLR-3 connector)
- C) 6A Signal Output (4-pin universal connector)
- D) 6A Signal Output (4-pin universal connector)
- E) Grounded power cord (five foot length)
- F) State indicator display screen
- G) Content level display screen
- H) Output indicator lights (B=Blue, G=Green, R=Red)
- I) Power indicator light (On or Off)
- J) "Mode select" button
- K) "Speed select" button

Signal Output Cables (C and D above) have universal 4-pin connectors that each require a power adapter/extension kit (sold separately, see reverse) to bring power to LED RGB Neon Flexbrite and/or LED 4-Wire RGB (part numbers LEDNF-RGB-490EC__ and LED-4WR-EC__ ; each available in 3, 10 and 20 foot lengths).



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USE AND FUNCTIONS

This controller is designed for use with LED RGB Neon Flexbrite (LEDNF-RGB) and/or LED 4-Wire RGB (LED-4WR-RGB); a power adapter/extension kit is required for each run of linear lighting. Do not exceed the maximum run in any case:

LINEAR LIGHTING PRODUCT (wattage consumption per foot)	REQUIRED ACCESSORY (power adapter/extension kit)	MAXIMUM RUN
LEDNF-RGB*: RGB Neon Flexbrite (4.0 watts per foot)	LEDNF-RGB-490EC3 LEDNF-RBG-490EC10 LEDNF-RGB-490EC20	180 feet per output
LED-4WR-RGB*: LED 4-Wire RGB (2.22 watts per foot)	LED-4WR-490EC3 LED-4WR-490EC10 LED-4WR-490EC20	295 feet per output

For run distances exceeding the above, multiple controllers will be required.

When multiple controllers are used, provide each one with a 120V AC receptacle. Contact factory or a DMX provider for custom XLR-3 DMX cabling to interlink multiples. When power is applied, the default function is that the first controller in the series will become the master and the rest will become slaves. The state indicator display screen (see "F" on reverse side) will display **H** for the master and **C** for the slave(s).

The LED-4WR-490CTRL can be controlled with its built-in functions, with a DMX console, or with DMX512 software (accessed via personal computer/laptop). Specialized DMX software will allow multiple IDs for advanced effect lighting. When using DMX 512 software, refer to that company's instructions.

BUILT-IN FUNCTIONS AND CORRESPONDING DISPLAY/INDICATORS

MODE # (RESULT)	DISPLAY	OUTPUT INDICATOR LIGHT(S)	SPEED FUNCTION BUTTON RESULTS
1 (Steady Red)	d1	R indicator light is on	Brightness: p1 (dimkest) through p6 (brightest) ↓
2 (Steady Green)	d2	G indicator light is on	
3 (Steady Yellow)	d3	R and G indicator lights are on	
4 (Steady Blue)	d4	B indicator light is on	
5 (Steady Purple)	d5	B and R indicator lights are on	
6 (Steady Blue-Green)	d6	B and G indicator lights are on	
7 (Steady White)	d7	B, G and R indicator lights are on	
8 (7-Color Skipping)	d8	Indicator lights skip through Modes #1-7	Rate: p1 (slowest) through p6 (fastest) ↓
9 (7-Color Flash)	d9	Indicator lights flash through Modes #1-7	
10 (7-Color Fading)	dA	Indicator lights fade through Modes #1-7	

Use the "mode select" button to advance through modes d1-dA above. When in modes #1 through #7, using the "speed select" button dims/brightens the static color. When in modes #8 through #10, using the "speed select" button changes the rate of the effect.

*LEDNF-RGB can be connected only one way such that power pins and conductors align. However LED-4WR-RGB is polarized, meaning it must be powered by the live end to operate. This is the end with the writing. See illustration at right.

