

# EVENT LIGHTING

## FLEXICONDMXBW

4 Channel (RGBW) DMX Controller for LED Tape

## USER MANUAL



**For safety, please read this user manual carefully before initial use.**

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

Version: 1.0 (21/01/2025)

# Safety Instructions

## Warning

- Do not open this device, there are no user-serviceable parts inside. Risk of electric shock.
- Do not Connect the wires with the power on. Ensure proper wiring first, then check to ensure there is no short circuit, and then power on.
- This product must be worked with a DC Constant Voltage Power Supply.

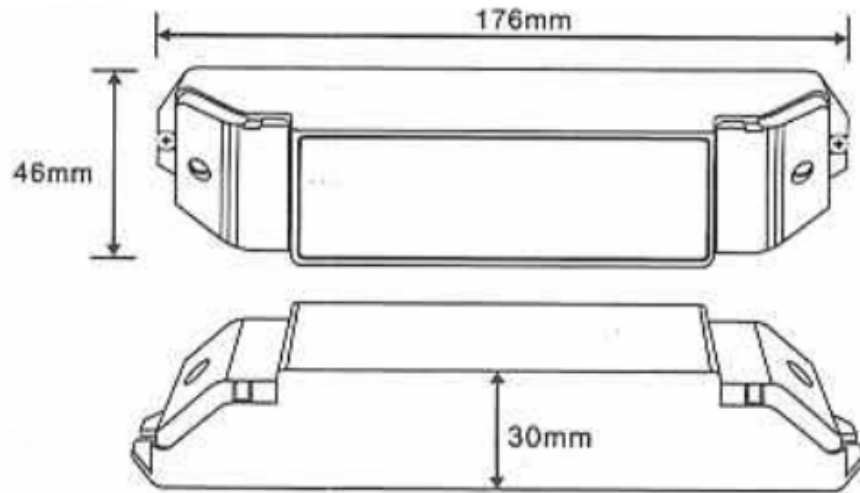
## Caution: This unit's housing may be hot during and after operation.

- Install this device in a location with adequate ventilation, at least 500 mm (20 inches) from adjacent surfaces.
- Avoid installing this product in an area with a strong magnetic field or near high voltage cables.
- Do not leave any flammable material within 500 mm (20 inches) of this unit while operating or connected to power.
- Ensure the wiring is correct and firm avoiding short circuit damages to components, that could cause fire.
- Do not operate this device outdoors or in any location where dust, excessive heat or water may affect it.
- Do not operate this device if the housing or cables appear damaged.
- ONLY connect this device to a grounded and protected circuit.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 40° C (104° F). Do not operate this device at higher temperatures.

## Power Input

- This device requires a 12-24V DC power supply to operate.

## Dimensions



## Menu Operation

Three touch buttons: M, +, -

<b>M</b>	Changes order in 3 digital display
<b>+</b>	Increases the value of the selected mode.
<b>-</b>	Decreases the value of the selected mode.

The three-digit display indicates the current setting value. The menu keys will lock after 15 seconds of inactivity. Press the 'M' key for 2 seconds to unlock the keys. The display will turn off after one minute of inactivity. Press any key to turn it back on.



When the controller is overloaded or short circuits, it will automatically stop outputting DMX signal and display 'ERR'.

# DMX

## 1. DMX Slave Mode: The value is 001-512, such as "001"

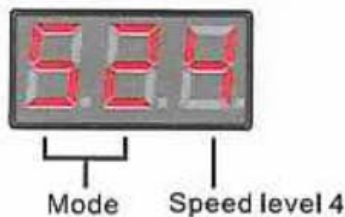


The decimal point after the last digit of the display will flash when DMX signal is received. When no signal is received, it will stop flashing, and the display will continue to show the current DMX address.

The following table shows the DMX Master Mode Patterns List:

000	All Channels to 100%
513	RED
514	GREEN
515	BLUE
516	MAGENTA
517	CYAN
518	YELLOW
519	ORANGE
520-529	Red, Orange, Yellow, Green, Cyan, Blue, Magenta (Fading Mode)
530-539	White, Magenta, Red, Orange, Yellow, Green, Cyan, Blue (Fading Mode)
540-549	Yellow /Orange, Red (Fading Mode)
550-559	Magenta, Blue (Fading Mode)
560-569	Cyan, Blue (Fading Mode)
570-579	Green, Yellow (Fading Mode)
580-589	All 3 channels make a pulsating move from 1% to 100% (Fading Mode)
590-599	Strobe for all 3 channels 0% to 100% (Jumping Mode)
600-699	Red from 0 to 99%
700-799	Green from 0 to 99%
800-899	Blue from 0 to 99%
900-999	White from 0 to 99%

- For values 520-599, the first two digits indicate the mode and the third one indicates the speed. There are 10 speed levels which are shown below.



Speed for program 520 - 589 (Colour Changing Fading Mode) for one step and not the whole program:

0	0.5 seconds
1	1 seconds
2	2 seconds
3	3 seconds
4	5 seconds
5	10 seconds
6	15 seconds
7	30 seconds
8	60 seconds
9	120 seconds

Speed for program 590 - 599 for one step and not the whole program:

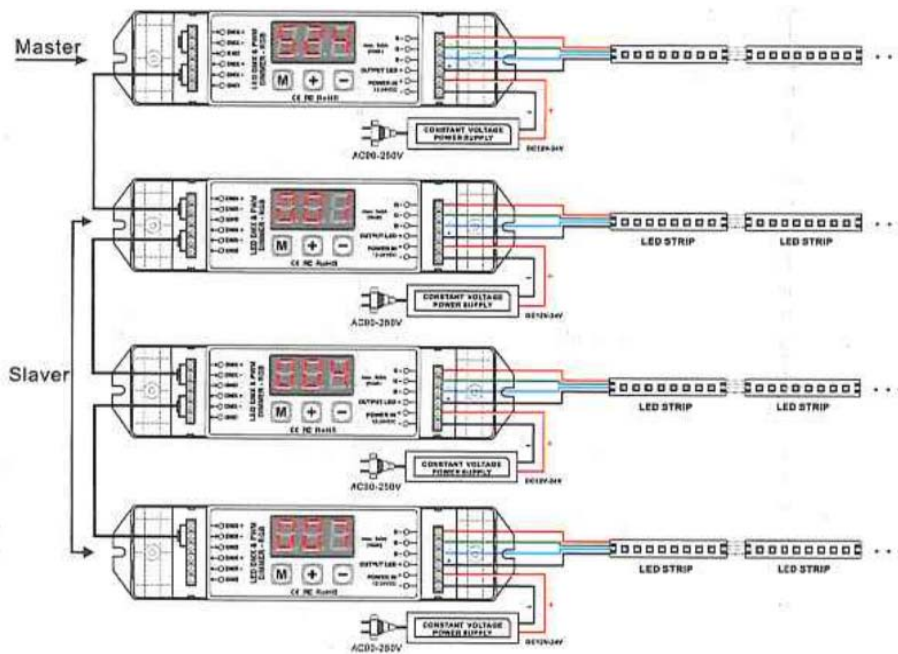
0	0.02 seconds
1	0.04 seconds
2	0.1 seconds
3	0.2 seconds
4	0.5 seconds
5	1 second
6	2 seconds
7	5 seconds
8	10 seconds
9	15 seconds

Brightness for 900 - 999. The units digit shows the brightness:

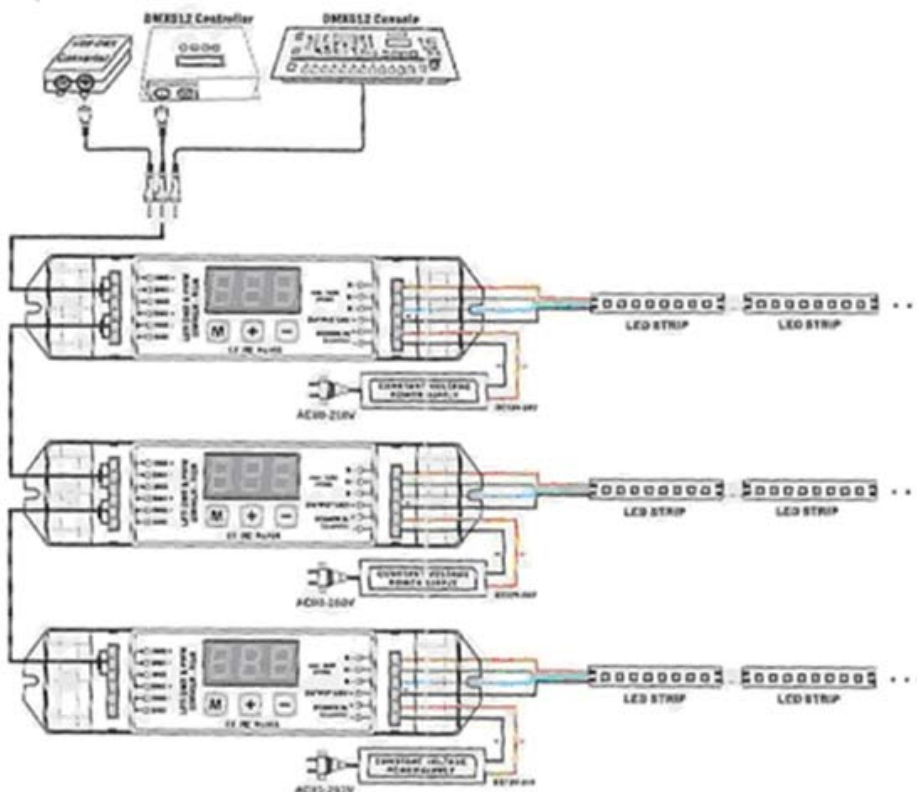
0	1% Brightness
1	5% Brightness
2	10% Brightness
3	20% Brightness
4	30% Brightness
5	40% Brightness
6	50% Brightness
7	60% Brightness
8	80% Brightness
9	100% Brightness

## 2. Master Mode Wiring Diagram

Only 1 decoder is allowed to work as a master.



## 3. Slave Mode Wiring Diagram



## Trouble Shooting

<b>Malfunction</b>	<b>Reasons</b>	<b>Solutions</b>
No light	No power supply.	Check power supply is connected correctly.
	Reversed polarity.	Ensure polarity is correct.
	Signal terminal not connected or reversed.	Ensure DMX terminator is connected correctly.
	Circuit longer than 200m.	Add DMX terminator at end of circuit and/or DMX signal amplifier every 200m.
Wrong colour	RGBW wired incorrectly.	Re-wire RGBW correctly.
	Decoder address inputted incorrectly.	Input the correct DMX address.
One or several colours are lit but will not change	Signal terminator wrongly connected or reversed.	Ensure the terminator is wired and connected correctly.
	Circuit longer than 200m.	Add DMX terminator at end of circuit and/or DMX signal amplifier every 200m.
Abnormal shake during use.	Signal terminator wrongly connected or reversed.	Connect it properly
	Circuit longer than 200m.	Add DMX terminator at end of circuit and/or DMX signal amplifier every 200m.

# Technical Specifications

## Features

- Automatically adapt input voltage DC12V-24V
- Input standard DMX512 signal, 3-digit-display shows DMX address code.
- 4 channels output: 4096 greyscales each: logarithmic dimming, lamplight soft and stable without strobe flash.
- DMX Master mode, Slave mode available
- 8 colour changing modes and 10-speed scales in master mode.
- Indicator of the DMX512 signal receiving status.
- Wrong wiring protection at DMX port. Over-current protection and short circuit protection.
- Power loss memory function.

## Specifications

- Input Voltage: DC12V - DC24V
- Max Load Current:
  - RGB: 3Ax3CH
  - W: 9Ax1CH
  - RGBW: 5Ax4CH
- Max Output Power:
  - 12V -> RGB 36Wx3CH; W 108W; RGBW 240W
  - 24V -> RGB 72Wx3CH; W 216W; RGBW 480W
- Grey Scale: 4096 levels x4
- Input Signal: DMX512/1990
- Output Signal: Constant Voltage PWM x4
- Decode Channel: 4CH
- DMX512 Socket: Terminal Block
- Dimension: L176 x W46 x H30mm
- Weight: 175g

## Warranty

Please refer to your local dealer or contact [Event Lighting Pty Ltd](http://www.event-lighting.com.au)