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# LEDBAR1812

Outdoor 1m LED Bar 18 x 12W 6-in-1 RGB LEDs



## User's instruction manual

This manual contains important information about the safe installation and use of this product

Please read this instruction manual carefully before installing or operating

Please keep these instructions in a safe place for future reference

V1.00

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## **Introduction**

Thank you for the purchase of your LEDBAR18012 Outdoor 1m LED bar with 18 x 12w 6-in-1 LEDs by Light Emotion. We are confident you will be satisfied with your purchase and enjoy many years of use from this Professional Light Emotion product. Please read these instructions carefully to ensure the product is well look after and used correctly to avoid any potential problems.

Please note that as part of our ongoing commitment to continuous improvement and product development, the specifications in this manual are subject to change without notice. Whilst every care has been taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement.

### **What is in the box:**

- 1 x LEDBAR1812 Lighting Effect
- 1 x Power Cable
- This user manual and warranty card

### **1. Safety Instructions:**

Please read these instructions carefully. It includes important information about the installation usage and maintenance of this product.

- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on the sticker of the fixture.
- This is an outdoor water-proof rated unit. In order to ensure the fixture remains water-proof, do not attempt to disassemble as in doing so the rubber seals and the like that help keep the product water-proof may be damaged.
- Use only compatible water-proof cables for installation and connection
- Product can be used indoors as well
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surface. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing.
- Secure fixture to stands, trussing and the like using a safety chain.
- Maximum ambient temperature is 50°C. Do not operate fixture at temperatures higher than this.

- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Never carry the fixture directly from the cord. Carry by holding the chassis of the unit.
- Avoid direct eye exposure to the light source while it is on.

## **2. Installation:**

Caution: For safe mounting of this product, please read the following carefully.

- When mounting the product, do not stand directly underneath the product.
- When mounting in fixed installation, use the provided brackets. Please ensure the unit is being attached securely to any surface – consult a professional for the installation if need be.
- For outdoor installations be sure that proper IP rated cables are used compatible with the connections that come with the product.
- Always use a safety chain when mounting the product on stands, trussing or bars. Make sure the breaking strain rating of the chain is at least 10 times the weight of the product.
- Product will work in any orientation.
- Make sure there is adequate ventilation around the product.
- Never look directly into the LED light sources of the product.
- Keep out of reach of children.

## **3. Features**

This product is designed as an outdoor professional LED flood lighting effect and is only intended to be used as such for entertainment, display and architectural applications. Due to our ongoing commitment to constantly reviewing and improving products, features and specifications are subject to change without prior notice.

- LEDs: 18 x 12W RGBWAUV HEX 6-in-1 LEDs with average 50000 hours lifespan
- Beam angle: 15°
- Control: DMX or on-board built-in programs
- 6 different DMX modes to suit users' needs
- DMX Channels: 2/6/8/11/108/110
- Functions: Colour mixing and fading, single colour, patterns, individual pixel control
- Electronic strobe rate: 1-25Hz
- Built in colour macros and programs
- Extruded rugged Aluminium housing
- IP65 rated
- Weight: 10kg / 12kg gross
- Packed Dimensions 1060x130x150mm

## 4. Menu Operation

Used for setting up or operating the product without DMX control:

Menu: Press each time to access features – see table below:

UP: Increase setting

DOWN: Decrease setting

Enter: Confirm and save setting.



No	Display Show	Numerical Value	Function and Description
1	d001	001 - 512	DMX512 starting address setting
2	ID01	ID01-ID50	Fast DMX512 address settings: ID1: is 1 <sup>st</sup> fixture, ID2 is 2 <sup>nd</sup> fixture, etc.
3	CL 1	01 - 08	8 kinds of colour output
4	FF99	00 - 99	RGB strobe, speed from slow to fast
5	1JP0	0 - 9	Effect 1, speed from slow to fast
6	2JP0	0 - 9	Effect 2, speed from slow to fast
7	3JP0	0 - 9	Effect 3, speed from slow to fast
8	4JP0	0 - 9	Effect 4, speed from slow to fast
9	5JP0	0 - 9	Effect 5, speed from slow to fast
10	6JP0	0 - 9	Effect 6, speed from slow to fast
11	7JP0	0 - 9	Effect 7, speed from slow to fast
12	8JP0	0 - 9	Effect 8, speed from slow to fast
13	9JP0	0 - 9	Effect 1-8 rotation, speed from slow to fast
14	1dE0	0 - 9	Red fading, speed from slow to fast
15	2dE0	0 - 9	Green fading, speed from slow to fast
16	3dE0	0 - 9	Blue fading, speed from slow to fast
17	4dE0	0 - 9	UV fading, speed from slow to fast
18	5dE0	0 - 9	Amber fading, speed from slow to fast
19	6dE0	0 - 9	R,G,B,W,UV,A fading rotation, speed from slow to fast
20	Sud0	0 - 9	Sound control, speed from slow to fast
21	CH11	2/6/8/ 11/108/110	DMX channel mode setting

## 5. DMX Channel Allocation and functions tables.

There are 6 different DMX profiles for this fixture. This allows the user to use simple overall control over fewer DMX channels or for the user to individually control each individual feature of the light over many more channels. You must choose the DMX mode/profile prior to setting up with DMX. When using multiple fixtures, all fixtures should be set to the same DMX profile for simplicity of control and DMX address allocation.

### 5a. Two channel DMX mode:

Channel	DMX value	Function Description
CH1	000-005	No effect
	006-016	LED colour selection: red
	017-027	LED colour selection: green
	028-038	LED colour selection: blue
	039-049	LED colour selection: amber
	050-060	LED colour selection: UV
	061-071	LED colour selection: cyan
	072-082	LED colour selection: white
	083-093	effect-1
	094-104	effect-2
	105-115	effect-3
	116-126	effect-4
	127-137	effect-5
	138-148	effect-6
	149-159	effect-7
	160-170	effect-8
	171-181	effect 1-8 rotation
	182-192	Red fading
	193-203	Green fading
	204-214	Blue fading
215-225	UV fading	
226-236	Amber fading	
237-247	Rotation fading effect	
248-255	Sound control	
CH2	000-255	Function speed, from slow to fast

### 5b. Six Channel DMX Mode

Channel	DMX value	Function Description
CH1	000-255	Red dimming , from dark to bright
CH2	000-255	Green dimming , from dark to bright
CH3	000-255	Blue dimming , from dark to bright
CH4	000-255	White dimming , from dark to bright
CH5	000-255	Amber dimming , from dark to bright
CH6	000-255	UV dimming , from dark to bright

### 5c. Eight channel DMX Mode

Channel	DMX value	Function Description
CH1	000-255	Master dimming ,from dark to bright
CH2	000-255	Strobe, from slow to fast
CH3	000-255	Red dimming , from dark to bright
CH4	000-255	Green dimming , from dark to bright
CH5	000-255	Blue dimming , from dark to bright
CH6	000-255	White dimming , from dark to bright
CH7	000-255	Amber dimming , from dark to bright
CH8	000-255	UV dimming , from dark to bright

### 5d. Eleven Channel DMX Mode

Channel	DMX value	Function Description
CH1	000-255	Master dimming ,from dark to bright
CH2	007-255	Master Strobe, from slow to fast
CH3	000-005	No action
	006-015	Custom running effect selection and built-in programs
	016-025	CH1: Dimming
	026-035	CH2: Simultaneously superimposed strobe effect
	036-045	CH4: The effect of running speed selection;
	046-055	CH5: Background colour selection;
	056-065	CH6-CH11: Running colour selection;
	066-075	
	076-085	
	086-095	
	096-105	
	106-115	
	116-125	
	126-135	
136-145	Built-in running effect – 1	
146-155	Built-in running effect – 2	

	156-165	Built-in running effect – 3
	166-175	Built-in running effect – 4
	176-185	Built-in running effect – 5
	186-195	Built-in running effect – 6
	196-205	Built-in running effect – 7
	206-215	Built-in running effect – 8
	216-225	Built-in Circulation fading effect
	226-235	Yellow fading effect
	236-245	Circulation built-in fading effect
	246-255	Sound control
CH4	000-255	Function speed, from slow to fast
CH5	000-255	When effect custom effect, choose the background colour
CH6	000-255	Red dimming , from dark to bright
CH7	000-255	Green dimming , from dark to bright
CH8	000-255	Blue dimming , from dark to bright
CH9	000-255	White dimming , from dark to bright
CH10	000-255	Amber dimming , from dark to bright
CH11	000-255	UV dimming , from dark to bright

#### 5e. 108 Channel DMX Mode

Channel	DMX value	Function Description
CH1	000-255	R1 dimming , from dark to bright
CH2	000-255	G1 dimming , from dark to bright
CH3	000-255	B1 dimming , from dark to bright
CH4	000-255	W1 dimming , from dark to bright
CH5	000-255	A1 dimming , from dark to bright
CH6	000-255	UV1 dimming , from dark to bright
CH7	000-255	R2 dimming , from dark to bright
CH8	000-255	G2 dimming , from dark to bright
CH9	000-255	B2 dimming , from dark to bright
CH10	000-255	W2 dimming , from dark to bright
CH11	000-255	A2 dimming , from dark to bright
CH12	000-255	UV2 dimming , from dark to bright
...	.....	.....
...	.....	.....
CH103	000-255	R18 dimming , from dark to bright
CH104	000-255	G18 dimming , from dark to bright
CH105	000-255	B18 dimming , from dark to bright
CH106	000-255	W18 dimming , from dark to bright
CH107	000-255	A18 dimming , from dark to bright
CH108	000-255	UV18 dimming , from dark to bright

### 5f. 110 Channel DMX Mode

Channel	DMX value	Function Description
CH1	000-255	Master dimming ,from dark to bright
CH2	007-255	Master Strobe, from slow to fast
CH3	000-255	R1 dimming , from dark to bright
CH4	000-255	G1 dimming , from dark to bright
CH5	000-255	B1 dimming , from dark to bright
CH6	000-255	W1 dimming , from dark to bright
CH7	000-255	A1 dimming , from dark to bright
CH8	000-255	UV1 dimming , from dark to bright
CH9	000-255	R2 dimming , from dark to bright
CH10	000-255	G2 dimming , from dark to bright
CH11	000-255	B2 dimming , from dark to bright
CH12	000-255	W2 dimming , from dark to bright
CH13	000-255	A2 dimming , from dark to bright
CH14	000-255	UV2 dimming , from dark to bright
...	.....	.....
...	.....	.....
CH105	000-255	R18 dimming , from dark to bright
CH106	000-255	G18 dimming , from dark to bright
CH107	000-255	B18 dimming , from dark to bright
CH108	000-255	W18 dimming , from dark to bright
CH109	000-255	A18 dimming , from dark to bright
CH110	000-255	UV18 dimming , from dark to bright

## 6. DMX-512 Control Connection

Using a 3 pin XLR cable, you can connect the product to a DMX controller and then to other fixtures with 3 pin XLR inputs and outputs. When not using DMX, multiple fixtures can be connected together and operate under master/slave control. The signal cable should have two core with shielded cable, the signal connectors are XLR input and output connectors. Please refer to the below diagram:



## 7. DMX Address Setting

When being used in conjunction with a DMX controller, each fixture must be set a specific starting address. When receiving signal, fixture will receive channel control signals of this address from the DMX controller.

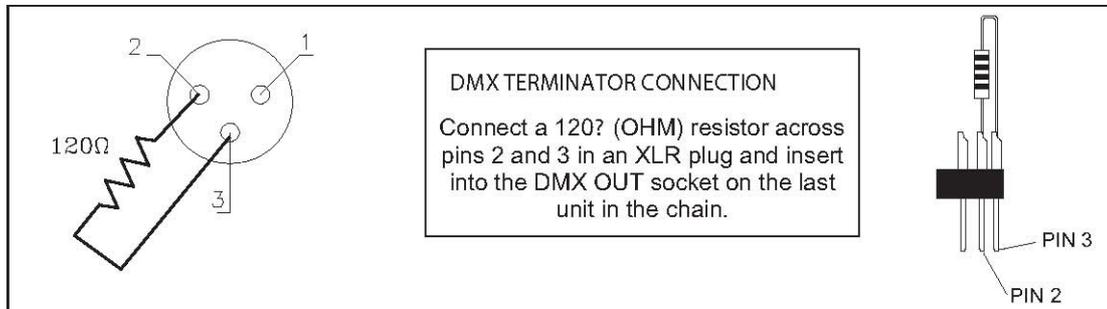
For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. Depending upon which DMX mode this fixture is set in, the individual DMX addresses must be separated by at least the same number of channels. For example in 9 channel mode, the DMX addresses must be at least 9 channels apart.

So for example – assuming the first fixture is DMX channel 1 and we are in 9 channel DMX mode, the second fixture would need to be on channel 10, then the 3<sup>rd</sup> channel 19 and so on. Some DMX controllers may group fixtures in lots of 16 channels – so in that case, fixture 1 on channel 1, fixture 2 on channel 17, 3 on 33, and so on. Refer to your DMX controllers' instruction manual on how best to manage your DMX channel allocation.

## 8. DMX Terminator:

A DMX terminator helps to reduce 'noise' on the DMX chain, and makes the light respond to control more accurately. It should be plugged in to the last fixture in any chain. For Terminator connections please see below:



## 9. Cleaning and maintenance

From time to time it is recommended the product is cleaned to ensure maximum light output and performance. Use a wet cloth to clean the housing as well as the lenses and base. Glass cleaner is also suitable but alcohol based cleaners and solvents cannot be used as they will cause damage to the product.

When used in a fixed long term installation such as a venue or club, the unit should be periodically taken down from the installation and professionally cleaned. Dust build-up within the unit can cause damage and ultimately failure of components.

## 10. Technical Data

- Input voltage: 90-240VAC, 50 or 60Hz
- Power consumption: 220W
- LEDs: 18 x 12W RGBWAUV HEX 6-in-1 LEDs with average 50000 hours lifespan
- Beam angle: 15°
- Control: DMX or on-board built-in programs
- 6 different DMX modes to suit users' needs
- DMX Channels: 2/6/8/11/108/110
- Functions: Colour mixing and fading, single colour, patterns, individual pixel control
- Electronic strobe rate: 1-25Hz
- Built in colour macros and programs
- Extruded rugged Aluminium housing
- Cooling via Aluminium housing
- IP65 rated
- Weight: 10kg / 12kg gross
- Packed Dimensions 1060x130x150mm

## 11. Warranty

This product is warranted for 12 months from your purchase date. We are confident that this product will give many years of trouble-free operation but should an unlikely problem arise, warranty claims must be via the original place of purchase, together with the original purchase receipt. Please keep both your original purchase receipt and this instruction manual together and in a safe place for future reference. Should the product be sold within the warranty period, be sure to pass on both to the new purchaser so they are able to claim warranty should they need to. We recommend you register your warranty online at [www.industrygear.com.au](http://www.industrygear.com.au).

Purchased from: \_\_\_\_\_

Contact Details: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Invoice/Receipt Number: \_\_\_\_\_

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