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# COB150RGBW

150W COB LED 4-in-1 RGBW Wash



## 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

V1.01

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## **Introduction**

Thank you for the purchase of your COB150RGBW COB LED 150W RGBW Wash Fixture 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 COB150RGBW fixture
- Power cable
- 40 and 80 degree lens
- This user manual

### **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 product is intended for indoor use only. To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- 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 40°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 centre.
- 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 unit directly or via the hanging bracket.
- 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.

- Use a suitable clamp to attach to lighting stand, trussing or bar, together with safety chain.
- When mounting the product, do not stand directly underneath 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.
- Make sure there is adequate ventilation around the product.
- Never look directly into the LED light or laser sources of the product.
- For indoor use only – do not use outdoors.
- To avoid electrical shock, keep away from rain and moisture.

## 3. Features

This product is designed as entertainment effect lighting fixture and is only intended to be used as an effect for entertainment and production applications. Due to our ongoing commitment to constantly reviewing and improving products, features and specifications are subject to change without prior notice.

It features 1 150W COB LED RGBW 4-in-1 which is a single LED source designed to be very bright. Being 4-in-1, the user has complete control over colours which emit from the one lens reducing any possibility of colour ghosting that can occur with fixtures that use individual red, green, blue and white LEDs.

This unit has built-in protection which will shut off the unit should its internal temperature reach 85 degrees C. This protects the internal electronics and components from damage caused by over heating.

- Power input: AC 100V-240V/50HZ-60HZ
- Wattage: 132W
- LEDs: 1 pc 150W COB LED (RGBW 4 in 1)
- Beam angle of LEDs: 80 degree, or 40 degree with interchangeable lens included
- 3-pin female XLR socket and 3-pin male XLR socket
- Built-in microphone
- Four button LED digit display
- Fuse: M250 3A slow blow
- Maximum 5 fixtures can be daisy chained together for power (DMX technically unlimited)
- Weight: 4.1 kg
- Size: 415x245x192mm

## 4. Operation

The COB150RGBW has 7 kinds of operation mode which are as follows:

**Manual dimmer colour mode, Sound active mode, Auto-run program mode, Static colour select mode, Other program select mode, Slave mode, DMX mode**

The modes of operation are selected using the MODE button. Pressing the MODE button repeatedly will reach positions as per the table below. Then press SET UP followed by UP / Down to access the attributes of each mode.

When you are using the MODE / SET UP / UP / DOWN LED display, the unit will lock the display if there is no input over 30 seconds. To unlock, press and hold down MODE button for 3 seconds before gaining access to the units menu options.

MODE manual	SET UP manual	UP/DOWN manual	Instruction
DMX MODE	Address	8001~8512	Sets the DMX starting address
	Channels	8403	The unit occupies 3 DMX channels
		8404	The unit occupies 4 DMX channels
		8405	The unit occupies 5 DMX channels
		8406	The unit occupies 6 DMX channels
		8409	The unit occupies 9 DMX channels
	NO DMX mode	81A2	When DMX signal is lost or interrupted,the unit will default to BLACKOUT option.It will switch all LED's off
8A5H		When DMX signal is lost or interrupted,the unit will default to HOLD option.It will hold the last state before signal was lost.	
826D		When DMX signal is lost or interrupted,the unit will default to AUTO option.It will run the internal programs.	
SLAVE MODE	Slave mode	5LR0	Set the unit into slave mode
DIMMER MODE	Red dimmer	8000~8299	Adjust the intensity of the red colour
	Green dimmer	6000~6299	Adjust the intensity of the green colour
	Blue dimmer	8000~8299	Adjust the intensity of the blue colour
	White dimmer	0000~0299	Adjust the intensity of the white colour
	Flash	8500~8545	Adjust the flash speed,8500 is flash off,8501 is slowest,8545 is fastest
SOUND MODE	Mode select	5801~5806	Select the 16 built-in sound modes
	Sensitivity select	54A1~54AB	Adjust the sensitivity of the sound-active,54A1 is the lowest level,54AB is the highest level
AUTO RUN MODE	Dreaming mode set	8A01~8A06	Select the 16 built-in dreaming mode
	Jumping mode set	8101~8106	Select the 16 built-in jumping mode
	Auto Dreaming&Jumping mode	833A	Set the light in auto dreaming&jumping mode,the dreaming mode and jumping mode will run in a continuous cycle
	Speed set	5P01~5P16	Adjust the speed of the dreaming/jumping mode
STATIC COLOUR SELECT MODE	Colour select	0000~0064	Select the 64 static colours
	Flash	8500~8545	Adjust the flash speed,8500 is flash off,8501 is slowest,8545 is fastest

OTHER MODE	Display on/off		LED digital tube display always on
			LED digital tube display off
	Display normal/inverse		LED digital tube display normal
			LED digital tube display inversion
	Initialization mode		Initialize the unit at the extra factory setting

### A. Manual dimmer colour mode

#### 1) Manual dimmer colour select

Press "MODE" button, select the manual dimmer colour select mode .At this time, the four digital tube displays red "~", press the "SET UP" to choose different colour, green "~", blue "~", white "~", then press "UP" or "DOWN" button to set the dimming rate 0-255.

#### 2) Flash speed select

Press "SET UP" to choose the flash speed select mode .At this time, the four digital tube displays "~". Press "UP" or "DOWN" button to select the flash speed 00-15, 00 is flash off, 01 is the slowest flash speed, 15 is the fastest flash speed.

### B. Sound active mode

Press "MODE" button, select the sound active program mode. There are two modes in the sound active program mode. You can select them by pressing the "SET UP" button.

#### 1) Sound active program mode select

Press "SET UP" button until the four digital tube displays "~", then press "UP" or "DOWN" to select the sound active program mode 1-16 under this mode.

#### 2) Sensitivity select mode

Press "SET UP" button until the four digital tube displays "~", then press "UP" or "DOWN" to select the sound active the sensitivity 1-8. 1 is off sound-active, 2 is the lowest sensitivity, 8 is the highest sensitivity.

### C. Auto-run program mode

Press "MODE" button, select the auto-run program mode. There are three modes in the auto-run program mode. You can select them by pressing the "SET UP" button.

#### 1) Colour dreaming program mode select

Press "SET UP" button until the four digital tube displays "~", then press "UP" or "DOWN" button to select the sixteen colour dreaming programs 1-16.

#### 2) Colour jumping program mode select

Press "SET UP" button until the four digital tube displays "~", then press "UP" or

"DOWN" button to select the sixteen colour jumping programs 1-16.

### 3) Colour dreaming/jumping speed select

Press "SET UP" button until the four digital tube displays "8800~8816". Press "UP" or "DOWN" button to select the colour dreaming/jumping speed 01-16, 01 is the slowest speed, 16 is the fastest speed.

## D. Static colour select mode

Press "MODE" button, select the static colour select mode. There are two modes in static colour select mode. You can select them by pressing the "SET UP" button.

### 1) Static colour select

Press "SET UP" button until the four digital tube displays "0000~0064", then press "UP" or "DOWN" to select static colour 0-64 under this mode.

### 2) Flash speed select

Press "SET UP" button until the four digital tube displays "8800~8815", then press "UP" or "DOWN" button to select the static colour flash speed 00-15, 00 is flash off, 01 is the slowest flash speed, 15 is the fastest flash speed.

## E. Other program select mode

### 1) Display off/on select mode

Press "SET UP" button, select display off/on mode. Press UP or DOWN to select the four digital tube display on/off. When the digital tube displays "0000" means that the display will on in any situation, when the digital tube displays "0006" means that the display will be automatically off after 60 seconds if there is no operation.

### 2) Display normal/inversion select mode

Press "SET UP" button, select display normal/inversion mode. Press UP or DOWN to select the four digital tube display normal/inverse. When the digital tube displays "5888" means that the digital tube displays normally, when the digital tube displays "0888" means that the digital tube displays inversion.

### 3) Initialization select mode

Press "SET UP" button until the four digital tube displays "8888", and the display is flicker. Now press UP button and DOWN button at the same time, you can initialize it at extra factory setting, running on the first colour jumping mode, and the four digital tube displays "8800".

## F. Slave mode

Press "MODE" button, select slave mode. At this time, the four digital tube displays "5888". Press SET UP, UP or DOWN is no use under this mode.

## G. DMX mode

You can control the devices individually via your DMX-controller.

### 1) DMX address select mode

The control Board allows you to assign the DMX address which is defined as the first channel of the COB LED par. Press "MODE" button until the display is "0001~0512", then press UP or DOWN to set the DMX address. The four digital tube display will be flicker when there is no controller signal.

### 2) DMX-PROTOCOL

Press "SET UP" button until the display is "0R03/0R04/0R05/0R06/0R09", then press UP or DOWN to set the desired channels (3,4,5,6,9). There are total 5 DMX modes.

### 3) No DMX mode set

Press "SET UP" button until the four digital tube displays "0000", then press "UP" or "DOWN" to select the 3 no DMX modes. When the digital tube display "0R00", it means when DMX signal is lost or interrupted, the unit will default to BLACKOUT option, it will switch all LED's off; when the digital tube display "0R01", it means when DMX signal is lost or interrupted, the unit will default to HOLD option, it will hold the last state before signal was lost; when the digital tube display "0R02", it means when DMX signal is lost or interrupted, the unit will default to AUTO option, it will run the internal programs.

## 5. DMX Charts

0R03: 3 channels mode

Channel	Value	Function
1 Colour Macros	0-255	See Colour Macros Chart
2 Strobe Channel	0-31	LED OFF
	32-63	LED ON
	64-95	STROBE SLOW->FAST
	96-127	LED ON
	128-159	STROBE PULSE SLOW->FAST
	160-191	LED ON
	192-223	RANDOM STROBE SLOW->FAST
224-255	LED ON	
3 Master dimmer channel	0-255	Dimming 0% - 100%

**0A04:** 4 channels mode

Channel	Value	Function
1	0-255	RED 0% - 100%
2	0-255	GREEN 0% - 100%
3	0-255	BLUE 0% - 100%
4	0-255	WHITE 0% - 100%

**0A05:** 5 channels mode

Channel	Value	Function
1	0-255	RED 0% - 100%
2	0-255	GREEN 0% - 100%
3	0-255	BLUE 0% - 100%
4	0-255	WHITE 0% - 100%
5	0-255	MASTER DIMMER 0% - 100%

**0A06:** 6 channels mode

Channel	Value	Function
1	0-255	RED 0% - 100%
2	0-255	GREEN 0% - 100%
3	0-255	BLUE 0% - 100%
4	0-255	WHITE 0% - 100%
5	0-31 32-63 64-95 96-127 128-159 160-191 192-223 224-255	STROBE LED OFF LED ON STROBE SLOW->FAST LED ON STROBE PULSE SLOW->FAST LED ON RANDOM STROBE SLOW->FAST LED ON
6	0-255	MASTER DIMMER 0% - 100%

RGB: 9 channels mode

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8		CH9
Red	Green	Blue	White	Strobe	Master Dim	Mode	Multiple Function		Speed/Sen.
Red 0-255 (dim→ bright)	Green 0-255 (dim→ bright)	Blue 0-255 (dim→ bright)	White 0-255 (dim→ bright)	0-31 LED off 32-63 LED on 64-95 Strobe slow-> fast 96-127 LED on 128-159 Strobe pulse slow-> fast 160-191 LED on 192-223 Random Strobe slow-> fast 224-255 LED on	Dim- ming 0-255 (dim→ bright)	Standard Dim Mode (0-51)	No Function		No function
No function	No function	No function	No function			Colour Macro Mode (Ch8) (52-102)	Colour Macros (See Colour Macros Chart)		
						Colour Jump Mode (Ch8) 103-153	0-15	Colour Jump 1	Internal Prog Speed (0-255) (slow→ fast) (Ch8)
							16-31	Colour Jump 2	
							32-47	Colour Jump 3	
							48-63	Colour Jump 4	
							64-79	Colour Jump 5	
							80-95	Colour Jump 6	
							96-111	Colour Jump 7	
							112-127	Colour Jump 8	
							128-143	Colour Jump 9	
							144-159	Colour Jump 10	
							160-175	Colour Jump 11	
							176-191	Colour Jump 12	
							192-207	Colour Jump 13	
							208-223	Colour Jump 14	
							224-239	Colour Jump 15	
							240-255	Colour Jump 16	
						Colour Dream Mode (Ch8) 154-204	0-15	ColourDream 1	
							16-31	ColourDream 2	
							32-47	ColourDream 3	
							48-63	ColourDream 4	
							64-79	ColourDream 5	
							80-95	ColourDream 6	
							96-111	ColourDream 7	
							112-127	ColourDream 8	
						128-143	ColourDream 9		
						144-159	ColourDream10		
						160-175	Colour Dream 11		
						176-191	Colour Dream12		
						192-207	Colour Dream13		
						208-223	Colour Dream14		

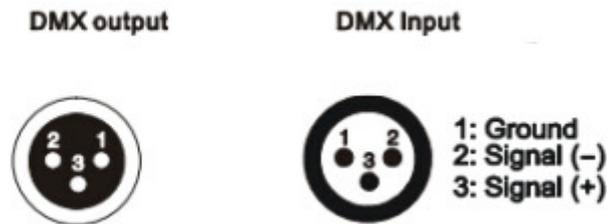
						224-239	Colour Dream15	
						240-255	Colour Dream16	
					Sound Mode (Ch8) 205-255	0-15	Sound Active 1	Sensi- tivity 0-31= OFF 32-255= Low to high Sensi- tivity (Ch8)
						16-31	Sound Active 2	
						32-47	Sound Active 3	
						48-63	Sound Active 4	
						64-79	Sound Active 5	
						80-95	Sound Active 6	
						96-111	Sound Active 7	
						112-127	Sound Active 8	
						128-143	Sound Active 9	
						144-159	SoundActive10	
						160-175	SoundActive11	
						176-191	SoundActive12	
						192-207	SoundActive13	
						208-223	SoundActive14	
						224-239	SoundActive15	
						240-255	SoundActive16	

**5A. Colour macros chart:**

Colour No.	DMX VAULE	RGBW COLOUR INTENSITY				Colour No.	DMX VAULE	RGBW COLOUR INTENSITY			
		R	G	B	W			R	G	B	W
Colour0(off)	0	0	0	0	0	Colour33	129-132	255	206	143	0
Colour1	1-4	80	255	234	80	Colour34	133-136	254	177	153	0
Colour2	5-8	80	255	164	80	Colour35	137-140	254	192	138	0
Colour3	9-12	77	255	112	77	Colour36	141-144	254	165	98	0
Colour4	13-16	117	255	83	83	Colour37	145-148	254	121	0	0
Colour5	17-20	160	255	77	77	Colour38	149-152	176	17	0	0
Colour6	21-24	223	255	83	83	Colour39	153-156	96	0	11	0
Colour7	25-28	255	243	77	77	Colour40	157-160	234	139	171	0
Colour8	29-32	255	200	74	74	Colour41	161-164	224	5	97	0
Colour9	33-36	255	166	77	77	Colour42	165-168	175	77	173	0
Colour10	37-40	255	125	74	74	Colour43	169-172	119	130	199	0
Colour11	41-44	255	97	77	74	Colour44	173-176	147	164	212	0
Colour12	45-48	255	71	77	71	Colour45	177-180	88	2	163	0
Colour13	49-52	255	83	134	83	Colour46	181-184	0	38	86	0
Colour14	53-56	255	93	182	93	Colour47	185-188	0	142	208	0
Colour15	57-60	255	96	236	96	Colour48	189-192	52	148	209	0
Colour16	61-64	238	93	255	93	Colour49	193-196	1	134	201	0
Colour17	65-68	196	87	255	87	Colour50	197-200	0	145	212	0
Colour18	69-72	150	90	255	90	Colour51	201-204	255	0	0	0
Colour19	73-76	100	77	255	77	Colour52	205-208	0	255	0	0
Colour20	77-80	77	100	255	77	Colour53	209-212	0	83	115	0
Colour21	81-84	67	148	255	67	Colour54	213-216	0	97	166	0
Colour22	85-88	77	195	255	77	Colour55	217-220	1	100	167	0
Colour23	89-92	77	234	255	77	Colour56	221-224	0	40	86	0
Colour24	93-96	158	255	144	144	Colour57	225-228	209	219	182	0
Colour25	97-100	255	251	153	153	Colour58	229-232	42	165	85	0
Colour26	101-104	255	175	147	147	Colour59	233-236	0	46	35	0
Colour27	105-108	255	138	186	138	Colour60	237-240	8	107	222	0
Colour28	109-112	255	147	251	147	Colour61	241-244	107	156	231	0
Colour29	113-116	151	138	255	138	Colour62	245-248	165	198	247	0
Colour30	117-120	151	138	255	138	Colour63	249-252	0	0	255	0
Colour31	121-124	138	169	255	138	Colour64	253-255	0	0	0	255
Colour32	125-128	255	255	255	255						

## 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.

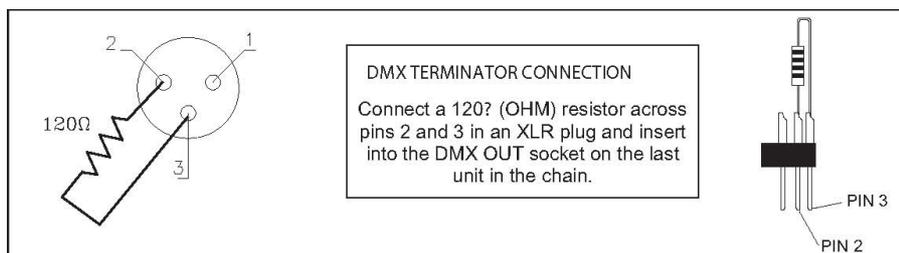
For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. If this fixture is in 9 channel DMX mode then each address must be 9 channels apart. For example, if the first unit is on DMX channel 1, the 2<sup>nd</sup> must be on DMX channel 10, the 3<sup>rd</sup> on 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-512 connection with 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. Please note that 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

- Power input: AC 100V-240V/50HZ-60HZ
- Wattage: 132W
- LEDs: 1 pc 150W COB LED (RGBW 4 in 1)
- Beam angle of LEDs: 80 degree, or 40 degree with interchangeable lens included
- 3-pin female XLR socket and 3-pin male XLR socket
- Built-in microphone
- Four button LED digit display
- Fuse: M250 3A slow blow
- Maximum 5 fixtures can be daisy chained together for power (DMX technically unlimited)
- Weight: 4.1 kg
- Size: 415x245x192mm

## 11. Warranty

This product is warranted for 2 years 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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