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# FLAT0505R

Flat 5x5W 4-in-1 RGBW Wash Fixture with IR Remote



## 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 FLAT0505 5x5W 4-in-1 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 FLAT0505 fixture
- Power cable
- IR remote control
- 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 5 x 5W 4-in-1 LEDs which have red, green, blue and white built into each LED lens. 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 and blue LEDs, and can also do pure white.

- Power input: AC 90V-240V/50HZ-60HZ
- Wattage: 28W
- LEDs: 5 pcs 5W (RGBW 4 in 1)
- Beam angle of LEDs: 40 degree
- 3-pin female XLR socket and 3-pin male XLR socket
- Built-in microphone
- Four button LED digit display
- Fuse: M205 1A slow blow
- Maximum 12 fixtures can be daisy chained together for power (DMX technically unlimited)
- Weight: 2.8 kg
- Size: 240x110x265mm

#### 4. Operation.

The FLAT0505 has eight kinds of operation mode, they are as follows:

**Static color select mode, Manual dimmer color mode, Colour jumping mode, Colour dreaming mode, Auto-run program mode, Sound active mode, Slave mode, DMX mode**

Here above eight kinds running mode are selected by MODE button. Press MODE and UP button at the same time, when it is on, you can initialize it at extra factory setting, running on the auto-run program mode.

Press the MODE and down buttons at the same time to select LED digital display on/off .When the display shows **8888** means that the display will stay on all the time, when the display shows **888H** means that the display will turn off after 20 seconds.

MODE manual	SET UP manual	UP/DOWN manual	instruction
STATIC COLOR SELECT MODE	Color select	00.00~00.85	Select the 15 static colors
	Flash	88.00~88.99	Adjust the auto run flash speed, 88.00 is flash off, 88.0H is slowest, 88.99 is fastest
DIMMER MODE	White dimmer	R0.00~R2.55	Adjust the intensity of the white color
	Red dimmer	R0.00~R2.55	Adjust the intensity of the red color
	Green dimmer	G0.00~G2.55	Adjust the intensity of the green color
	Blue dimmer	B0.00~B2.55	Adjust the intensity of the blue color
	Flash	88.00~88.99	Adjust the flash speed, 88.00 is flash off, 88.0H is slowest, 88.99 is fastest
COLOR JUMPING MODE	Jumping speed set	02.0H~02.99	Adjust the speed of color jumping mode, 02.0H is slowest, 02.99 is fastest
	Flash	88.00~88.99	Adjust the color jumping flash speed, 88.00 is flash off, 88.0H is slowest, 88.99 is fastest
COLOR DREAMING MODE	Dreaming speed set	F2.0H~F2.99	Adjust the speed of color dreaming mode, F2.0H is slowest, F2.99 is fastest
	Flash	88.00~88.99	Adjust the color dreaming flash speed, 88.00 is flash off, 88.0H is slowest, 88.99 is fastest
AUTO RUN MODE	Auto run mode set	R0.00.	Set the unit into auto run mode
	Flash	88.00~88.99	Adjust the auto run flash speed, 88.00 is flash off, 88.0H is slowest, 88.99 is fastest
SOUND MODE	Sensitivity select	50.00~50.3H	Adjust the sensitivity of the sound-active, 50.00 is sound-active off, 50.0H is the lowest level, 50.3H is the highest level
Slave mode	Slave mode	50.00.	Set the unit into slave mode
DMX MODE	Address set	80.0H~85.02	Sets the DMX starting address

### A. Static color select mode

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

#### 1) Static color select

Press "SET UP" button until the four digital tube displays "00.00~00.99", then press "UP" or "DOWN" to select static color 0-15 under this mode.

#### 2) Flash speed select

Press "SET UP" button until the four digital tube displays "88.00~88.99", then press "UP" or "DOWN" button to select the static colour flash speed 00-99, 00 is flash off, 01 is the slowest flash speed, 99 is the fastest flash speed.

### B. 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 white "A.000~A.255", press the "SET UP" to choose different colour, red "R.000~R.255", green "G.000~G.255", blue "B.000~B.255", then press "UP" or "DOWN" button to set the dimming rate 0-255.

#### 2) Flash speed select

Press "SET UP" button until the four digital tube displays "88.00~88.99", then press "UP" or "DOWN" button to select colour dimmer flash speed 00-99, 00 is flash off, 01 is the slowest flash speed, 99 is the fastest flash speed.

### C. Colour jumping mode

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

#### 1) Colour jumping speed set

Press "SET UP" button until the four digital tube displays "00.01~00.99". Press "UP" or "DOWN" button to select the color jumping speed 01-99, 01 is the slowest speed, 99 is the fastest speed.

#### 2) Flash speed select

Press "SET UP" button until the four digital tube displays "88.00~88.99", then press "UP" or "DOWN" button to select the color jumping flash speed 00-99, 00 is flash off, 01 is the slowest flash speed, 99 is the fastest flash speed.

### D. Colour dreaming (fading) mode

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

#### 1) Colour dreaming speed set

Press "SET UP" button until the four digital tube displays "88.01~88.99". Press "UP" or "DOWN" button to select the color dreaming speed 01-99 ,01 is the slowest speed, 99 is the fastest speed.

2) Flash speed select

Press "SET UP" button until the four digital tube displays "88.00~88.99", then press "UP" or "DOWN" button to select the color dreaming flash speed 00-99 ,00 is flash off, 01 is the slowest flash speed, 99 is the fastest flash speed.

### **E. Auto-run program mode**

Press "MODE" button, select the auto-run program mode. There are two 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 "88.00.", the unit runs into the auto run program mode, the colour jumping program and color dreaming program run alternatively. Press UP or DOWN is no use under this mode. Running speed is the current speed of color jumping program and colour dreaming program.

2) Flash speed select

Press "SET UP" button until the four digital tube displays "88.00~88.99", then press "UP" or "DOWN" button to select the auto run program flash speed 00-99,00 is flash off, 01 is the slowest flash speed, 99 is the fastest flash speed.

### **F. Sound active mode**

Press "MODE" button, select the sound active program mode, the four digital tube displays "50.00~50.31", then press "UP" or "DOWN" to select the sound active the sensitivity 0-31. 0 is off sound-active, 01 is the lowest sensitivity, 31 is the highest sensitivity.

### **G. Slave mode**

Press "MODE" button, select slave mode, the four digital tube displays "50.80.". The unit will be controlled by the master unit now.

### **H. DMX mode**

Press "MODE" button until the display is "88.01~88.512", then press UP or DOWN to set the DMX address 001-512.

DMX MODE: 7 DMX channels

CH7			CH6	CH5	CH4	CH3	CH2	CH1		
MODE	DMX VALUE	FUNCTION								
1	0-13	No function	0-10=No use 11-255=Flash (slow→fast)	Dimming 0-255 (dim→ bright)	White 0-255 (dim→ bright)	Blue 0-255 (dim→ bright)	Green 0-255 (dim→ bright)	Red 0-255 (dim→ bright)		
2	14-26	Red								
3	27-38	Green								
4	39-51	Blue								
5	52-64	White								
6	65-76	R+G								
7	77-89	R+B								
8	90-102	R+W								
9	103-114	G+B								
10	115-127	G+W								
11	128-140	B+W								
12	141-152	R+G+B					No function	No function	No function	No function
13	153-165	R+G+W								
14	166-178	R+B+W								
15	179-190	G+B+W								
16	191-204	R+G+B+W								
17	205-217	Color change					Speed 0-255 (slow→ fast)			
18	218-230	Color dreaming								
19	231-242	Auto run								
20	243-255	Sound active	Sensitivity 8-255 (insensitive→ sensitive)		No function					

Note: R---red    G---green    B---blue    W---white

## 5. Operation by IR remote:

You can also operate this product by IR remote, the distance available is at most 10m.

**Notice:IR remote can also be used when the unit is in the DMX mode.**

The picture of the IR remote:



### AUTO RUN mode

Press AUTO RUN button to choose Auto run mode. Press FLASH to turn on the flash of the Auto Run and then press “+” and “-” buttons to adjust flash speed. You can also put in two numbers 00-99 to adjust flash speed, 00 is to turn off flash, 01 is the slowest speed, 99 is the fastest speed.

### Select program Mode

Press PROG to cycle among the built-in programs, it contains static colour select mode, colour jumping mode and color dreaming mode. Each press of this button will change to the next mode.

1. When the flat par goes into the static color mode, press “+” and “-” or put in two numbers 00-15 to select the 15 static colours. You can press FLASH to turn on flash and press “+” and “-” or put in two numbers 00-99 to adjust the flash speed, 00 is to turn off flash, 01 is the slowest speed, 99 is the fastest speed.

2. When the flat par goes into color jumping mode or color dreaming mode, press “+” and “-” or put in two numbers 01-99 to adjust the program speed, 01 is slowest, 99 is the fastest. You can press FLASH to turn on flash and press “+” and “-” or put in two numbers 00-99 to adjust the flash speed, 00 is to turn off flash, 01 is the slowest speed, 99 is the fastest speed.

### Sound Active Mode

Press SA to display sound active mode, press “+” and “-” or put in two numbers 00-31 to adjust the sound active sensitivity level. 00 is sound active off, 01 is the lowest level, 31 is the highest level.

### M/S mode

Press SL to display slave mode.

## Select light program mode

Press R/G/B to choose the three different colours, and "0" is to choose the white colour, then press "+" and "-" or put in three numbers 000-255 to adjust the intensity of the light. You can press FLASH to turn on flash and press "+" and "-" or put in two numbers 00-99 to adjust the flash speed, 00 is to turn off flash, 01 is the slowest speed, 99 is the fastest speed.

## DMX MODE

Press D to display DMX mode.

## Set ADDR

Press this button to set the DMX address or initialize the program, then the red, green, blue and white lights will flash 2~3 times. Please put in 3 number, for example, 1 2 3. After the red light is on, please put in the first number. After the first number is accessed the green light will be on, then put in the second number. When the blue light will be on, please put in the third number. After all the three number are put in, the red, green and blue lights will flash 2~3 times, which indicate that the DMX address is right and it go in to the DMX MODE automatically. If the address is wrong the red light will be on. New DMX address should be put in.

If the 951 are put in, red and green lights will be on. Put "0" to initialize the program. If the wrong address is put in, the red light will be on, indicating new address should be put in. Then the system will run in the auto run mode.

## Black Out mode

Press "BLACK OUT" to set the LED lights power on or power off by pressing this button.

## 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.

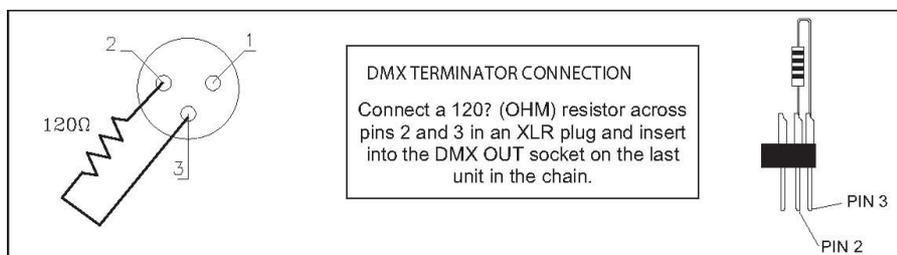
For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. If this fixture is in 7 channel DMX mode then each address must be 7 channels apart. For example, if the first unit is on DMX channel 1, the 2<sup>nd</sup> must be on DMX channel 8, the 3<sup>rd</sup> on channel 15 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 90V-240V/50HZ-60HZ
- Wattage: 28W
- LEDs: 5 pcs 5W (RGBW 4 in 1)
- Beam angle of LEDs: 40 degree
- 3-pin female XLR socket and 3-pin male XLR socket
- Built-in microphone
- Four button LED digit display
- Fuse: M205 1A slow blow
- Maximum 12 fixtures can be daisy chained together for power (DMX technically unlimited)
- Weight: 2.8 kg
- Size: 240x110x265mm

## 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).

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Contact Details: \_\_\_\_\_  
Date Purchased: \_\_\_\_\_  
Invoice/Receipt Number: \_\_\_\_\_

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