

**LED WASH LIGHT**  
**USER MANUAL**



## TABLE OF CONTENTS

<b>1. BEFORE YOU BEGIN</b> .....	2
What is included.....	2
Unpacking Instructions.....	2
Safety Instructions.....	2
<b>2. INTRODUCTION</b> .....	3
Specifications.....	3
Features.....	3
<b>3. SETUP</b> .....	4
Installation Requirement.....	4
Power.....	4
Connection of DMX Signal Wire.....	5
<b>4. OPERATING INSTRUCTIONS</b> .....	5
Control Panel Functions.....	5
Menu Map.....	6
Operating instructions.....	7
DMX512 Controller mode.....	8
DMX512 Channel Values.....	9
ID Address Instructions.....	13
Master/Slave Control Mode.....	14

## 1. BEFORE YOU BEGIN

### What is included

- > 1 x Fixture
- > 1 x Power cable with plug
- > 1 x DMX signal cable
- > 1 x User Manual

### Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton; check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

### Safety Instructions

- This light belongs to grade I protection device, therefore the light must connect to the earth excellently. And the power connection must be operated by the professional technician.
- Make sure that the working voltage will not higher or lower than the rated value.
- Make sure that the cable didn't be damage or lacerated by sharp.
- The light must be power off when it's standing idle or before clearing.
- The cable must with plug, and you must pull out the cable by handle the plug.
- Please be careful when installing the lighting. Never touch the bared cable, or it will cause the deadly electric shock.
- Please never look at the beam directly, or it will hurt your eyes.
- Please use the suitable and safe cable to connect the light.
- Please never remodel the light randomly, we will not take the guarantee for the faulty and damage which caused by dismantle, repair or remodel of the nonprofessional person
- Maximum ambient temperature 40° C. Do not operate fixture at temperatures higher than this.
- Never connect the device to a dimmer pack.
- Do not daisy chain power to more than 10 units @ 120V and 20 units @ 230V.

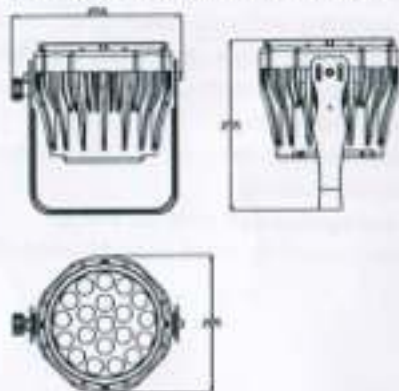
## 2. INTRODUCTION

### Specifications

- Voltage Rating: AC100V~240V
- Power Rating: 85W
- LED Quantity: 18X4 in 1(RGBW)
- Drive current: 350mA
- Beam Angle: 30°
- Product Size: 255 x 205 x 255mm
- Package Size: 315x280x310mm
- N/W: 4.0KG

### Features

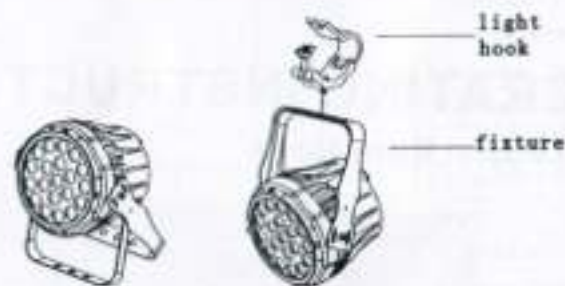
- Color Temperature: 3200K~10000K (Adjustable)
- RGB color mixing with or without DMX controller
- 5 distinct dimming curves
- User defined program/ inner optional program
- Strobe/Fade-in & Fade-out/RGBW mixing/ ID intelligent addressing
- LED display with password protection
- Transfer custom programs between fixtures
- Operating Modes: DMX512 Connection /Master & Slave...
- DMX Channels: HSV/STAG/col/co1.d/co2/co2.s  
3 channels: HSV Hue+Saturation+Value  
11 channels: STAG RGB+ Dimmer + Macro + strobe +  
AUTO +Auto speed + dimming speed +ID  
3 channels: Co1 RGB  
4 channels: Co1d RGB + Dimming  
4 channels: Co2 RGBW  
5 channels: Co2d RGBW+ Dimming  
6 channels: Co25 RGBW+ Dimming + Strobe



## 3. SETUP

### Installation Requirement

- This product can be used in a variety of situations, can hang and put on the ground.
- If hanging the fixture for over head use, then please follow the below steps.
- Please choose the suitable location to put or hang the light when installing. You must use the exclusive clamp hanger and screw when hanging it, and make sure the weight of the light is within limits of the hanger.
- The installation should be operated by professional person; any irregular installation will cause the body injury or equipment damage.
- Block access below the work area and use suitable and stable platform when installing or servicing fixture.

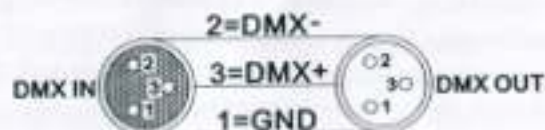


### Power

This fixture has an auto-switching power supply. The only thing necessary to do before powering on the unit is to make sure the line voltage you are applying is within the range of accepted voltages. This fixture will accommodate AC200V~240V OR AC100V~120V 50-60 Hz. Each light is connected end to end by the power socket "POWER IN" and "POWER OUT" on the light. Do not daisy chain power to more than 10 units @ 120V and 20 units @ 230V.

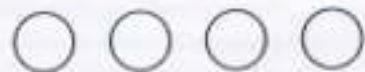
## Connection of DMX Signal Wire

1. Please use the fixture controller wire specially when use the DMX512 Controller. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture
2. Connect the end of the cable coming from the first fixture which will have a (male) 3 pin connector to the input connector of the next fixture consisting of a (female) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.
3. This product can be connected numerous lamps in series without the need for the signal amplifier; the signal will not be weakened.



## 4. OPERATING INSTRUCTIONS

### Control Panel Functions



MODE ENTER UP DOWN

BUTTON	FUNCTION
MODE	Exits from the current menu or function
ENTER	Enables the currently displayed menu or sets the currently selected value in to the selected function
UP	Navigates upwards through the menu list and increases the numeric value when in a function
DOWN	Navigates downwards through the menu list and decreases the numeric value when in a function

## Menu Map

MAIN FUNCTION	SUB-FUNCTION	SELECTION	INSTRUCTION	
CoLo	R000	000 ~ 255 (0~ 100%)	User can combine RED, GREEN BLUE and WHITE to generate a custom color	
	G000			
	b000			
	W000			
RUTo	S000	00-20	Select strobe frequency between 0 and 20Hz	
	RT	01-10	10 auto programs available	
PR	PR	01-10	chose program from 10 "pers" programs	
	dMx	001 ~ 512	Set DMX start address	
PER5	SLRv		receive signal or Download programs from Master fixture.	
	dMx		11 channels: RGBW + D+S...	
	STRG		3 channels: Hue, Saturation, Value	
	HSv		3 channels: RGB	
	Co1		4 channels: RGB+D	
	Co1d		4 channels: RGBw	
	Co2		5 channels: RGBW+D	
	Co2d		6channels: RGBW+D+S	
id	01-66	Assign ID address for fixtures		
SET	idSh	ON/OFF	Enable or disable ID	
	UPLd	***	Upload programs(Password required)	
LoClk	LoClk	ON/OFF	Enable or disable lock(Password required)	
	dIM	ON/OFF	Enable or disable dimmer speed	
	REST	***	Reset factory defaults(Password required)	
	VER	1.01	Version number	
EdIT	PRD I 01-10 custom	SCD I 01-30 scene	R000	User can combine RED, GREEN BLUE and WHITE to generate a custom color
			G000	
			b000	
			W000	

			5000	Select strobe frequency between 0 and 20Hz
			T000	(0~255) step time
			F000	(0~255) transition time of last step to current step

## Operating instructions

### 1. Upload custom program or set to another machine

- 1.1 Set all the fixtures which receive custom programs from the source fixture as **[dM:]**. Press MODE button until **[RUN]** is displayed.
- 1.2 Then press ENTER button, use UP/DOWN buttons until **[dM:]** is displayed.
- 1.3 On the Master unit, Press MODE button until **[SET]** is displayed on source fixture.
- 1.4 Then press ENTER button, use UP/DOWN buttons until **[UPLd]** is displayed.
- 1.5 Input password UP, UP, DOWN, DOWN, then press ENTER.  
When the upload is complete, all the lamps will be the output of green light, means uploaded successfully. If there is a lamp error, the output color will be red.
- 1.6 Press **<MODE>** on the source unit to exit the upload mode.

### 2 Enable password lock dM:

- [SET] ↵ [LoCk] ↵ [ON] / [OFF] ↵ [ENTER]**  
**[ON]** enable lock. **[OFF]** disable lock

Enable the password lock, control panel in the boot or go into standby automatically take effect, this time to operate lamps need to enter your password. ( **MODE, UP, MODE, DOWN, MODE, UP, MODE, DOWN** ). Then press ENTER button

### 3 Factory reset

- [SET] ↵ [RESET] ↵ (UP, UP, DOWN, DOWN) ↵ [ENTER]**

Note: The password is permanently set as **<UP>**, **<UP>**, **<DOWN>**, **<DOWN>**; this cannot be changed. Then press ENTER button

### 4 Custom program

- [Edit] ↵ [PRO] ↵ [SCD]**

- 4.1 Press MODE button until **[PRO]** is displayed, press ENTER access program mode.
- 4.2. Select the program you'll edit by pressing UP/DOWN buttons. The available range is 01-10.
- 4.3. Select the step you'll edit by pressing UP/DOWN buttons, and then press ENTER button access program.  
When 'R000' display on the screen, press the UP/DOWN button to choose the value.

Repeat this step to edit the value of 'G000', 'B000', 'W000', 'S000', 'T000' and 'F000'. Please pay attention for the 'S' is the rate of strobe. 'T000' is the operating time of the present step, the value is between 0 to 255. 'F000' is the transitional time from previous step to present step. The transitional time is the quickest when the FADE is 0.

Notice: Please operate the program in turn, from the 01st step to the 30th step. When the operating program less than 30 steps, please set the final step value be 0.

- 4.4. Repeat step 3 till complete programming.
- 4.5. Exit program mode by pressing MODE buttons three times.

## DMX512 Controller Mode

### 1. DMX operate mode setting

Access control panel function by pressing MODE until **[RUN]** is displayed. Press ENTER, press UP/DOWN buttons until the **[dM:]** is displayed. Press ENTER, Press MODE return to MENU

### 2. Setting DMX512 Address

- [dM:] ↵ [001-- 512]**

Access control panel function by pressing MODE until **dM:** is displayed. Press ENTER, add or reduce channels by pressing UP/DOWN between 001 and 512. Press MODE to exit.

### 3. Setting Channels

- [PER5] ↵ [HSV .STRG .Co1 .Co1d .Co2 .Co2d .Co25]**

Access control panel function by pressing MODE until **[PER5]** is displayed. Press ENTER button, select DMX channel by pressing UP/DOWN, Press MODE to exit.

## DMX512 Channel Values

### 3 channels: HSV

Channel	Value	Description
1	000⇔255	Hue
2	000⇔255	Saturation
3	000⇔255	Value (Intensity)

Note: In HSV mode, Hue stands for the visible light, such as red, yellow, and cyan, etc. Saturation refers to the dominance of hue in the color; when saturation is at 100%, then the color is at its purest. Value is the color's brightness; when Value is at 100%, then the color is at its brightest.

### 11 channels: Stage

Channel	Value	Description
1	000⇔255	Dimming
2	000⇔255	Red (or STEP TIME when CUS.01-10 is activated)
3	000⇔255	Green (or FADE TIME when CUS.01-10 is activated)
4	000⇔255	Blue
5	000⇔255	White
6	macro color control/white balance/typer color	
	000⇔009	No Function
	010⇔030	Red up
	031⇔050	Red 100%/ Green Up/ Blue 0%
	051⇔070	Red Down/ Green 100%/ Blue 0%
	071⇔090	Red 0%/ Green 100%/ Blue Up
	091⇔110	Red 0%/ Green Down/Blue 100%
	111⇔130	Red Up/ Green 0%/Blue 100%
	131⇔150	Red 100%/ Green 0%/ Blue Down
	151⇔170	Red 100%/ Green Up/ Blue Up
	171⇔190	Red Down/ Green Down/ Blue 100%
	191⇔200	RGBW 100%
	201⇔205	White 1: 3200K
	206⇔210	White 2: 3400K
	211⇔215	White 3: 4200K
	216⇔220	White 4: 4900K
221⇔225	White 5: 5600K	

6	226⇔230	White 6: 5900K
	231⇔235	White 7: 6500K
	236⇔240	White 8: 7200K
	241⇔245	White 9: 8000K
	246⇔250	White 10: 8500K
251⇔255	White 11: 10000K	
7	Strobe	
	001⇔255	00⇔20Hz
8	auto & custom program	
	000⇔009	No Function
	010⇔019	Out1 AUTO1
	020⇔029	Out2 AUTO2
	030⇔039	Out3 AUTO3
	040⇔049	Out4 AUTO4
	050⇔059	Out5 AUTO5
	060⇔069	Out6 AUTO6
	070⇔079	Out7 AUTO7
	080⇔089	Out8 AUTO8
	090⇔099	Out9 AUTO9
	100⇔109	Out10 AUTO10
	110⇔119	Cust1 custom program 1
	120⇔129	Cust2 custom program 2
	130⇔139	Cust3 custom program 3
	140⇔149	Cust4 custom program 4
150⇔159	Cust5 custom program 5	
160⇔169	Cust6 custom program 6	
170⇔179	Cust7 custom program 7	
180⇔189	Cust8 custom program 8	
190⇔199	Cust9 custom program 9	
200⇔225	Cust10 custom program 10	
9	000⇔255	Auto Speed Adjustment 0⇔100% (only when using ch.8)
10	000⇔255	Dimming speed
11	000⇔255	ID address selection

## ID ADDRESS SELECTION

VALUE	FUNCTION	VALUE	FUNCTION	VALUE	FUNCTION
000⇌009	All ID's	212	ID23	235	ID46
010⇌019	ID1	213	ID24	236	ID47
020⇌029	ID2	214	ID25	237	ID48
030⇌039	ID3	215	ID26	238	ID49
040⇌049	ID4	216	ID27	239	ID50
050⇌059	ID5	217	ID28	240	ID51
060⇌069	ID6	218	ID29	241	ID52
070⇌079	ID7	219	ID30	242	ID53
080⇌089	ID8	220	ID31	243	ID54
090⇌099	ID9	221	ID32	244	ID55
100⇌109	ID10	222	ID33	245	ID56
110⇌119	ID11	223	ID34	246	ID57
120⇌129	ID12	224	ID35	247	ID58
130⇌139	ID13	225	ID36	248	ID59
140⇌149	ID14	226	ID37	249	ID60
150⇌159	ID15	227	ID38	250	ID61
160⇌169	ID16	228	ID39	251	ID62
170⇌179	ID17	229	ID40	252	ID63
180⇌189	ID18	230	ID41	253	ID64
190⇌199	ID19	231	ID42	254	ID65
200⇌209	ID20	232	ID43	255	ID66
210	ID21	233	ID44		
211	ID22	234	ID45		

### MASTER DIMMER

Channels 1 controls the intensity of the currently projected color. When the slider is at the highest position (255), then the intensity of the output is at the

### R, G, B AND W COLOR SELECTION

Channels 2, 3, 4 and 5 control the intensity ratio of each of the Red, Green, Blue, & White LEDs. 1, 2, 3, 4 and 5 channel can be used in combination.

### COLOR MACROS

Channel 6 selects the required Color Macro.

Channel 6 has priority over Channels 2, 3, 4 & 5.

Channel 1 is used to control the intensity of the current Color Macro

### STROBE

Channel 7 controls the strobe of Channels 1 through 6.

Channel 7 has priority over Channels 2, 3, 4, 5 & 6.

Speed of the strobe is adjustable from 0 to 20 Hz.

### AUTO & CUSTOM PROGRAMS

Channel 8 selects the preset Auto/Custom programs 1-10. When activating the Auto/Custom programs, it is then possible to control the Step time and Fade time by using Channels 2 & 3 respectively.

Channel 8 has priority over channels 2-7..

### DIMMER SPEED

Channel 10 is for selecting the dimmer mode and dimmer speed.

When channel 10 is not activated, then RGBW and Master Dimmer are linear. The dimmer modes 1, 2, 3, and 4 are different speeds of the nonlinear dimming curves.

### ID ADDRESS SELECTION

Use channel 11 to select ID addressed fixtures. Each independent DMX address can have up to 66 ID addressed fixtures. ID address "0" allows control of all fixtures simultaneously.

#### 3 channels: Co1

Channel	Value	Description
1	000⇌255	Red
2	000⇌255	Green
3	000⇌255	Blue

#### 4 channels: Co1.d

Channel	Value	Description
1	000⇌255	Dimming
2	000⇌255	Red
3	000⇌255	Green
4	000⇌255	Blue

#### 4 channels: Co2

Channel	Value	Description
1	000⇌255	Red
2	000⇌255	Green
3	000⇌255	Blue
4	000⇌255	white

## 5 channels: Co2.d

Channel	Value	Description
1	000⇔255	Dimming
2	000⇔255	Red
3	000⇔255	Green
4	000⇔255	Blue
5	000⇔255	white

## 6channels: Co2.S

Channel	Value	Description
1	000⇔255	Dimming
2	000⇔255	Red
3	000⇔255	Green
4	000⇔255	Blue
5	000⇔255	white
6	000⇔255	Strobe

## ID Address Instructions

### 1. Setting ID address

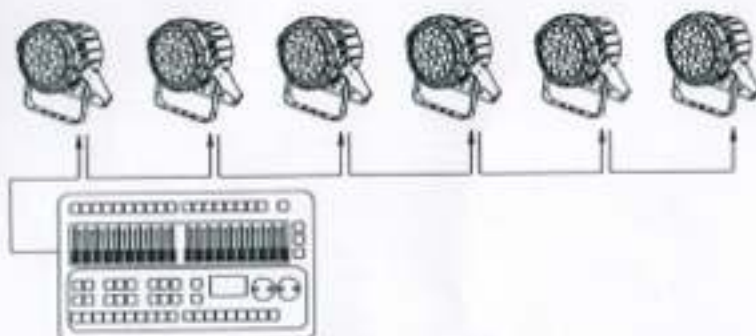
1. Access control panel function by pressing **MODE** until **[ I d ]** is displayed.
2. Press **ENTER**, increase or reduce ID values by pressing **UP/DOWN** between 01 and 66.
3. Press **MODE** to exit

### 2. Enable or disable ID

**[ SET ] ⇨ [ Id54 ] ⇨ [ ON ] / [ OFF ]**

1. Access control panel function by pressing **MODE** until **[ SET ]** is displayed.
2. Press **ENTER**, select by pressing **UP/DOWN** until is **[ Id54 ]** displayed.
3. Press **ENTER**, turn on or off ID addressing by pressing **UP/DOWN** buttons.
4. Press **MODE** to exit.

For every DMX512 address the user can set 66 separate ID addresses. ID addressing is a secondary function in DMX512 mode. In DMX512 Controller Mode, the user can simultaneously control the individual DMX address of all lights, and can control the lights which have separate ID address in independent DMX512.



Select **STRG** channel on fixture's control panel (Please refer to DMX512 Channels Selection). The figure above shows a simple DMX layout which has used three units at each DMX address. The three units have different ID addresses. In the DMX address: 001, the user can control the first three lights simultaneously. When using channel 11 select the channel number is 020-029 and ID Address=02, the controller can control the second light individually. When using channel 11 select the channel number is 000-010 and ID Address=00, all the lights are in common use at the same DMX address.

## Master/Slave Control Mode

### 1. Setting master machine

Access control panel function by pressing **MODE** until **[ RUT0 ]** is displayed.  
Press **ENTER**, select **[ RT ]** or **[ PR ]** by pressing **UP/DOWN** buttons. Press **ENTER**, and then press **MODE** to exit.  
You can choose **[ RT ]** pre-set programs, the range is **[ 01 ⇨ 10 ]**.  
Or you can choose **[ PR ]** custom programs, the range is **[ 01 ⇨ 10 ]**.

### 2. Setting slave machine

Access control panel function by pressing **MODE** until **[ RUT ]** is displayed. Press **ENTER**, press **UP/DOWN** buttons until the **[ SLR ]** is displayed. Press **MODE** return to MENU

### 3. Usage of Master/Slave

When two or more fixtures connected, you can set up the first machine as the Master and the followed fixtures as Slaves. The Master can choose pre-set programs \* **[ RT ]** or **[ PR ]**, all the slaves will follow the Master's operation synchronously.