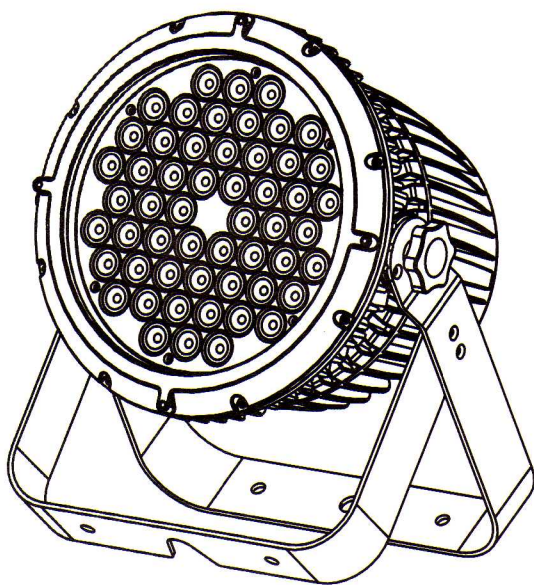


# **54 LEDs high power par light**

## **Manual**



Read this manual before powering or installing the fixture ,  
and keep it for further consultation

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# 1. General

Thank you for using our Products .This product is designed for indoor and outdoor use. It is suitable for disco, stage , building etc. as high power LED effect lighting. This product can be operated as a single unit or in multiple units for large applications. Direct input of DMX512 signal to unit to allow it be controlled by any DMX512 controller. Powerful internal programs and friendly and convenient operation interface allow customers to program freely to any different lighting project requirements for installation or shows.

This high power par light has got the nice sculpt , efficient , save electricity and durable .

On receiving products, please carefully check that there has been no damage caused in transportation and that the following parts are enclosed:

Power Cable -----	1 PCS	Signal Output Cable -----	1 PCS
User Manual -----	1 PCS	Signal Input Cable -----	1 PCS

This product complies with the following standards:

GB7000.1-2007/IEC60598-1:2003

GB7000.217-2008/IEC60598-2-17:1984+A2:1990

## 2. Functions

- 1、4-digit display, with power and data indication .
- 2、256 degree brightness adjust , RGBW Mix could reach 16,000,000 Colors .
- 3、5 Built-in color temperature adjustments function , strobe function, auto running ,master/slave working mode .
- 4、8 DMX control channels (STAG mode) or 3 DMX control channels (HSV mode)
- 5、Beam angle : 15°/25°/30°/40°/60° can be selected .
- 6、Over temperature protect .
- 7、High brightness and Long project distance .

- 8、 We have created the grayscale adjusting and regulation technique. It makes the dimmer become more smooth .
- 9、 ID function .
- 10、 Working with LC-101 Controller , Supporting with Auto writing ID Address , Supporting Chase effect and other auto run effect .

### 3. Safety Warning

**Every person involved with the installation, operation and maintenance of this device has to know :**

- 1) This product must be installed by a qualified professional .
- 2) This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual .
- 3) Manufacturer will not with responsibility for those operation not according to this Instruction .

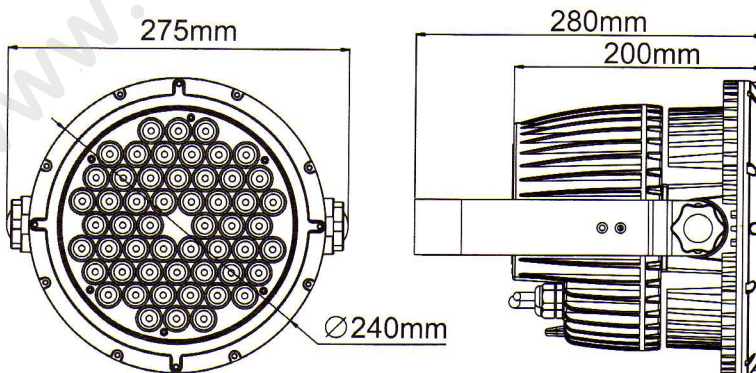
#### **Operation attention**

- 1) Do not connect power cable of other electric products with this unit .
- 2) Do not connect DMX512 Signal cable of other electric products with this unit .
- 3) 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 decal or rear panel of the fixture .
- 4) Always ground (earth) the fixture electrically .
- 5) During long periods of non-use, disconnect the unit's main power .
- 6) There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself .
- 7) If the exterior cord of the fixture is damaged, it must be replaced by manufactory, agent or a qualified technician .



- 8) Maximum ambient temperature ( $T_a$ ) is  $35^{\circ}\text{C}$ . Do not operate fixture at temperatures higher than this .
- 9) The surface temperature of the light can reach to  $65^{\circ}\text{C}$ , cool down at least 15 minutes before you operate the light.
- 10) The minimum distance between light-output and the illuminated surface must be more than 2 meters. Keep all combustible materials (for example fabric, wood, paper) at least 0.5 meters away from the fixture .
- 11) Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- 12) Always mount this unit in safe and stable matter .
- 13) Don't install the fixture on combustible surface .
- 14) When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- 15) Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.
- 16) Block access below the work area whenever installing or removing the fixture.
- 17) Avoiding hit the Light when you are move or install the light .

## 4. Dimension



## 5. Technical Specification

1. High-power LED, the life-span is about 50,000 hours;

Red LED: 3W×12 PCS

Green LED: 3W×12PCS

Blue LED: 3W×12 PCS

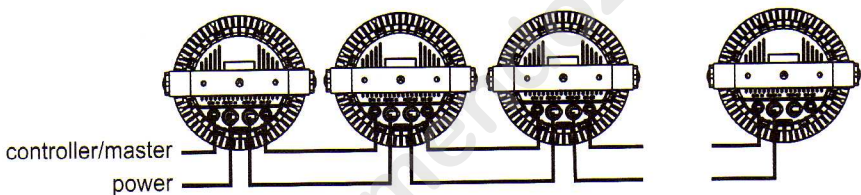
White LED: 3W×18 PCS

2. Voltage: AC90~250, 50/60Hz

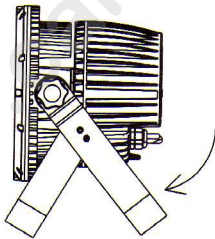
3. Power consumption: 165W

4. IP protect : IP67, the head reaches IP68

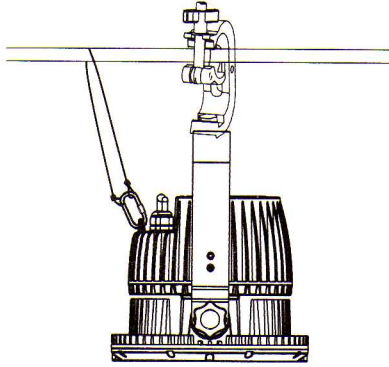
## 6. Connection



Do not connect more than 10 Pcs in the Same Circuit series. 50 fixtures may be connected in Signal series without Signal amplifier .

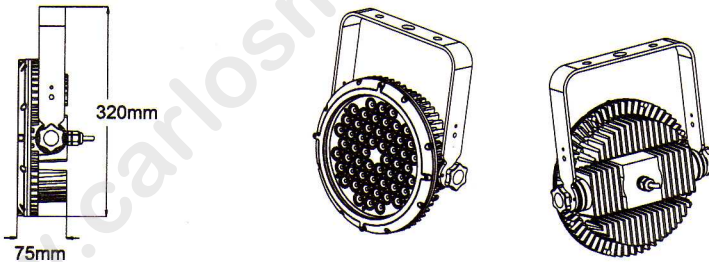


The fixture can be mounted in an upright or sitting position using the supporting brackets. You can adjust the lamp angle discretionarily using the two adjustment knobs located on the side of the fixture.



When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices .

Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable .



For improving the waterproof grade, Our company provides another mode the head can separates from the lighting . If the lighting needs to work in the water for a long time , you should choose and buy this mode , such as the above figure . The waterproof grade of the head reaches IP68 .

## 7. Operation

### Stand-alone operation

Stand-alone operation allows the fixture works without controller and be controlled by the control panel directly . Please refer to the menu instruction .

### Edit the auto run program

Find *PRGR* , you should set the program speed , program quantity and edit each program . Please refer to the menu instruction .

### Master / slave operation

Setting the first fixture to be the master-device and the following to be the slave-devices (work in DMX mode), then all fixtures will run synchronously .

Master-device setting memod: enter *SET* menu , find *PRAL* , then enter and select *PRSE* , press ENTER-button to confirm .

Slave-device setting memod: let the display scrolls to *ADD1* (with actually stored address).

### DMX operation

You can control the fixtures individually or synchronously by the DMX-controller . In DMX mode , a fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address.

For example, a fixture that uses 3 DMX channels and was addressed to start on DMX channel 1, would read data from channels: 1, 2, 3. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference. Note that assign the same address to the different lightings , they will receive the same signal .

Enter *ADD1* menu (with actually stored address) could set the DMX start address and other DMX parameter .



## ID code setting

ID code is used to extend DMX . Any DMX address in the range from 001 to 512 may be used., so a limited fixtures are controlled by DMX controller respectively in a series. However , the ID code function allows each DMX address may carry up to 66 separate ID addresses , so 66 fixtures could be respectively controlled with the same DMX address . For example : if the controller can control 63 fixtures in series , and the ID code function extend the quantity to  $63 \times 66 = 4158$

Enter **SET** menu and find **ID** menu could set the ID code . ID addresses are accessible from CH4 on the DMX512 controller. If you don't want ID code function , CH4 must be inactive ( CH4=0 ).

## 8. Control pannel

### Button

**SET/ESC:** Call the main menu, or escape the current menu(i.e. return to the upper menu) and give up the selected item or parameter .

**UP:** Browse the menu item forward or increase the parameter .

**DOWN:** Browse the menu item backward or decrease the parameter .

**ENTER:** Confirm the selected item or parameter(i.e. enter the next menu, or escape the current menu and save the selected item or parameter)

### Indicator

There are 4 dots at the bottom of the digital tube , from left to right as :

1. DMX signal LED indicator
2. Memory writing indicator , (Press ENTER after amending the DATA , This Dot will be light up , it means the Data is saving )
3. Power indicator

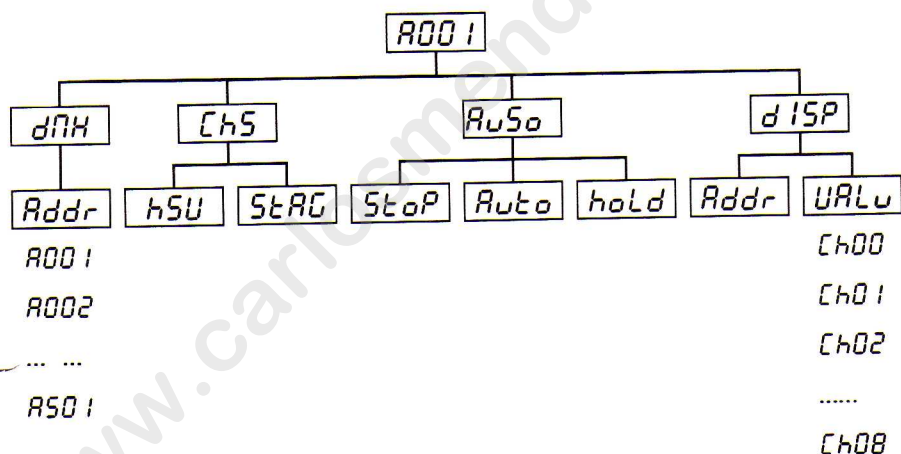
#### 4. Keyboard available indicator

## 9. Menu instruction

### ① Function menu

Power on the fixture, it shows one of the function menu, use UP or DOWN button could scroll all function menu step by step as follow: *ADD 1*, (with actually stored address), *Col*, *red*, *Grn*, *blu*, *YEL*, *CYn*, *Pur*, *Uhl*, *RUhl*, *3200*, *5600*, *8500*, *1000*, *ChCL*, *Stob*, *FAde*, *PARC*, Press Enter-button if you wish to select one of them. The functions provided are described in the following sections.

#### 1. *ADD 1* DMX set menu



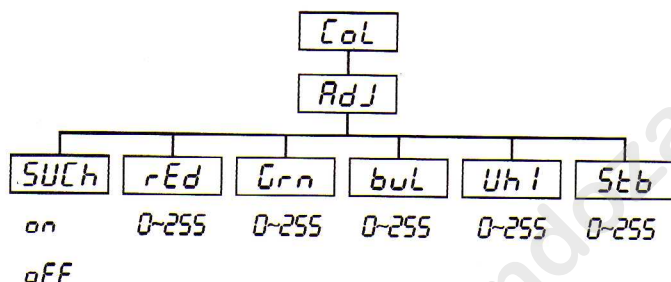
*dmH* Set DMX start address (1-501)

*ChS* Select DMX channel mode: *h5U* (HSV 3 channels mode) and *StAG* (STAG 8 channels mode)

*Auto* Run if there is no DMX-signal: *Stop*(stop), *Auto*(auto),  
*hold* (Remains in the last received DMX-program)

*display* Display setting when work in the DMX mode: *Addr*(DMX start address), *URL*(Display the value of each channel, *Ch00* means The DMX value of the mutative channel .

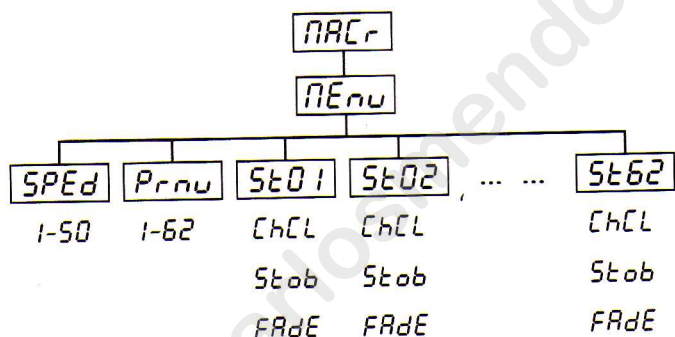
## 2. *Col Adj* adjustment menu



*SUCh* Light switch  
*rEd* Red dimmer  
*Grn* Green dimmer  
*bUL* Blue dimmer  
*Uhl* White dimmer  
*Stb* Strobe adjustment

3. *rEd* Static red.
4. *Grn* Static green.
5. *bLU* Static blue.
6. *YEL* Static yellow.
7. *CYn* Static cyan.

8. *PUR* Static purple
9. *PWh* Static pure white
10. *RWh* Static white
11. *3200* 3200K color temperature
12. *5600* 5600K color temperature
13. *8500* 8500K color temperature
14. *1000* 10000K color temperature
5. *ChCL* Color change program, press ENTER-button to enter speed menu
16. *Stob* Strob program, press ENTER-button to enter speed menu
17. *FAdE* Fade program, press ENTER-button to enter speed menu
18. *NAcR* macro menu – edit the auto run program

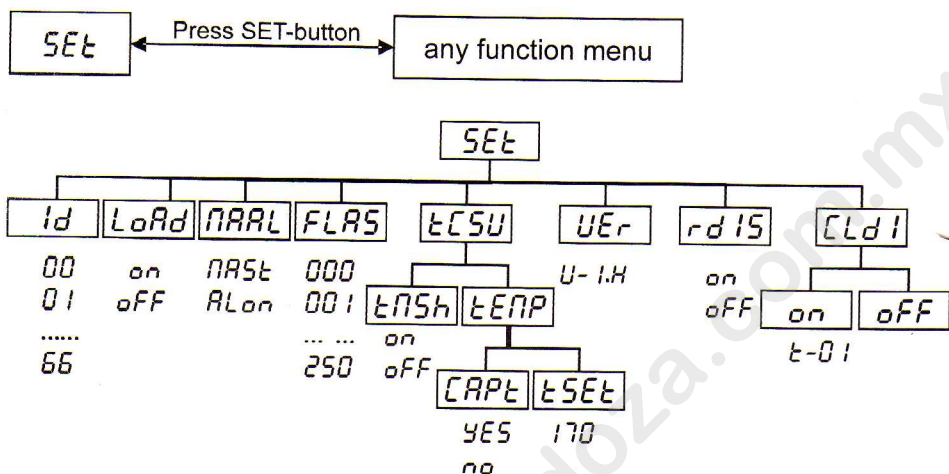


- SPEd* Program speed
- Prnu* Program quantity
- St01* Set the 1<sup>st</sup> program. *ChCL*(change color program), *Stob*(strobe program), *FAdE*(fade program) optional .
- St02* Set the 2<sup>nd</sup> program. *ChCL*(change color program), *Stob*(strobe program), *FAdE*(fade program) optional .
- ... ..
- St62* ... ..



## ② Set menu

When display shows any function menu , press SET-button could enter set menu , press again return .



<i>Id</i>	Set ID code
<i>LoAd</i>	Restore factory settings
<i>NRAL</i>	Master / Alone working mode setting
<i>FLAS</i>	Set flash code
<i>tCSU</i>	Set temperature Switch parameter
	<i>tNSh</i> temperature switch
	<i>tENP</i> switch temperature (Password protect)
	<i>CAPt</i> Temperature capture
	<i>tSEt</i> set temperature, the default setting is 170
<i>UEr</i>	Soft Version
<i>rd IS</i>	Display-reverse
<i>CLd I</i>	Function of the display close automatically
	<i>on</i> Avail, enter to set the Display shutoff time , the default setting is 1 minute , the display will close automatically in

a minute after last pressing the buttons.

oFF Inavail

## 10.DMX channel value and function

### STAG 8-channel mode

#### **Channel 1- general dimmer**

Value	Function
000-255	Dimmer(dark to btight)

#### **Channel 2- Strobe**

Value	Function
000-009	No function
010-149	Strobe(slow to fast)
150-199	Fast in slow out
200-249	Slow in fast out
250-255	Always bright

#### **Channel 3- Especial function**

Value	Function
000-049	RGBW dimmer enable
050-059	Red
060-069	Green
070-079	Blue
080-089	Yellow
090-099	Cyan
100-109	Purple
110-119	PureWhite
120-129	All White

130-139	3200K color temperature
140-149	5600K color temperature
150-159	6500K color temperature
160-169	8500K color temperature
170-179	10000K color temperature
180-189	ChangeColor
190-199	Strobe
200-209	Fade
210-229	No function
230-239	Auto Macro
240-255	No function

#### Channel 4- ID function

Value	Corresponding ID	Value	Corresponding ID	Value	Corresponding ID
0~9	ID1~66	212	ID23	235	ID46
10~19	ID1	213	ID24	236	ID47
20~29	ID2	214	ID25	237	ID48
30~39	ID3	215	ID26	238	ID49
40~49	ID4	216	ID27	239	ID50
50~59	ID5	217	ID28	240	ID51
60~69	ID6	218	ID29	241	ID52
70~79	ID7	219	ID30	242	ID53
80~89	ID8	220	ID31	243	ID54
90~99	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		

### **Channel 5- Red dimmer**

Value	Function
000-255	Red dimmer

### **Channel 6- Green dimmer**

Value	Function
000-255	Green dimmer

### **Channel 7- Blue dimmer**

Value	Function
000-255	Blue dimmer

### **Channel 8- White dimmer**

Value	Function
000-255	White dimmer

## **HSV 3-Channel mode**

### **Channel 1- Hue**

Value	Function
000-255	red→yellow→green→cyan→blue→ purple →red

### **Channel 2- Saturation**

Value	Function
000-255	Saturation increase

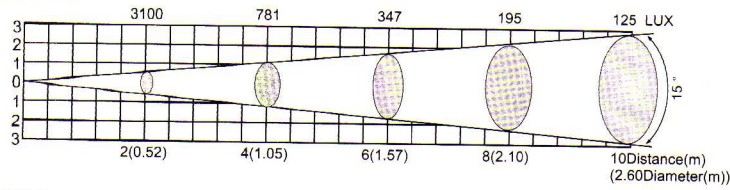
### **Channel 3- Value**

Value	Function
000-255	Color change from dark to bright

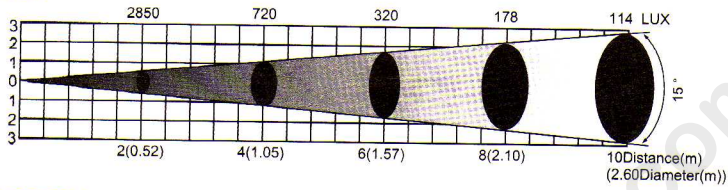


# 11.Photometric data

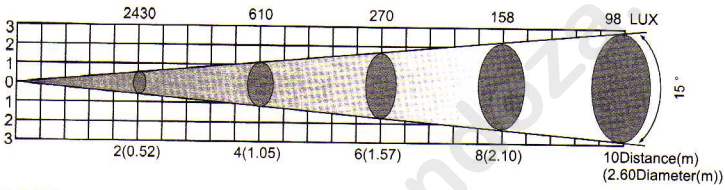
## WHITE



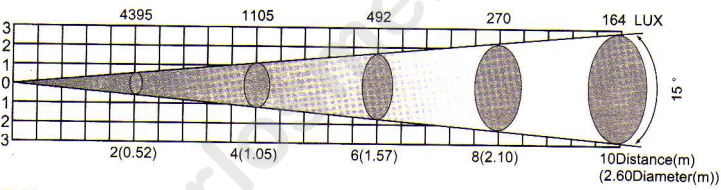
## RED



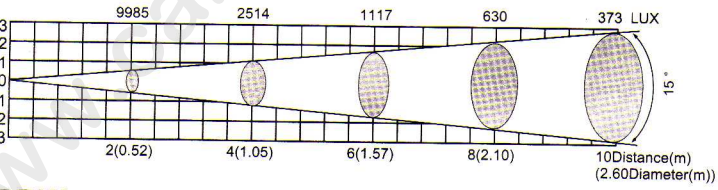
## GREEN



## BLUE



## RGB



## RGBW

