USER MANUAL

LEAD PACK 14

LCG-B314IP

(14x3W RGB 3-in-1)

Catalogue

Please read over this manual before operating the light

1. Summary

➢ **Summary**

➢ Thank you for purchasing our LEAD PACK 14. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage

➢ **Product introduction**

LED LEAD PACK 14 light uses casting aluminum housing, designed in a fashion of hydrodynamic form. Appearance shows. It adopts high power 3-in-1 LED, which refers to single LED is made of R,G,B 3-IN-1 LED, And long life span, low consumption, good color mixing effect and high brightness are the most prominent features. Each kind of LED can be independently dimmed. The built-in program includes dimming, strobe, eotic, gradual change, fading and so on. It uses power switch, performs low weight and consumption, stable capability and long life. International standard DMX 512 signal is requested.

➢ **Packing List**

  ➢ LEAD PACK 14 1 PC

  ➢ DMX Signal Cable 1 Set

  ➢ Power cable 1 PC

  ➢ User Manual

  ➢ Warranty Card

  ➢ IR Remote Control

2. Safety Instruction

➢ Safety Notes

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

! Avoid direct eye exposure to the fixture when it is on;

避免电击!

➢ Safety   instruction

● Make sure the power supply voltage are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

●Before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

●This light is designed for indoor use; working temperature is lower than 40 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

3. Outside Size Picture
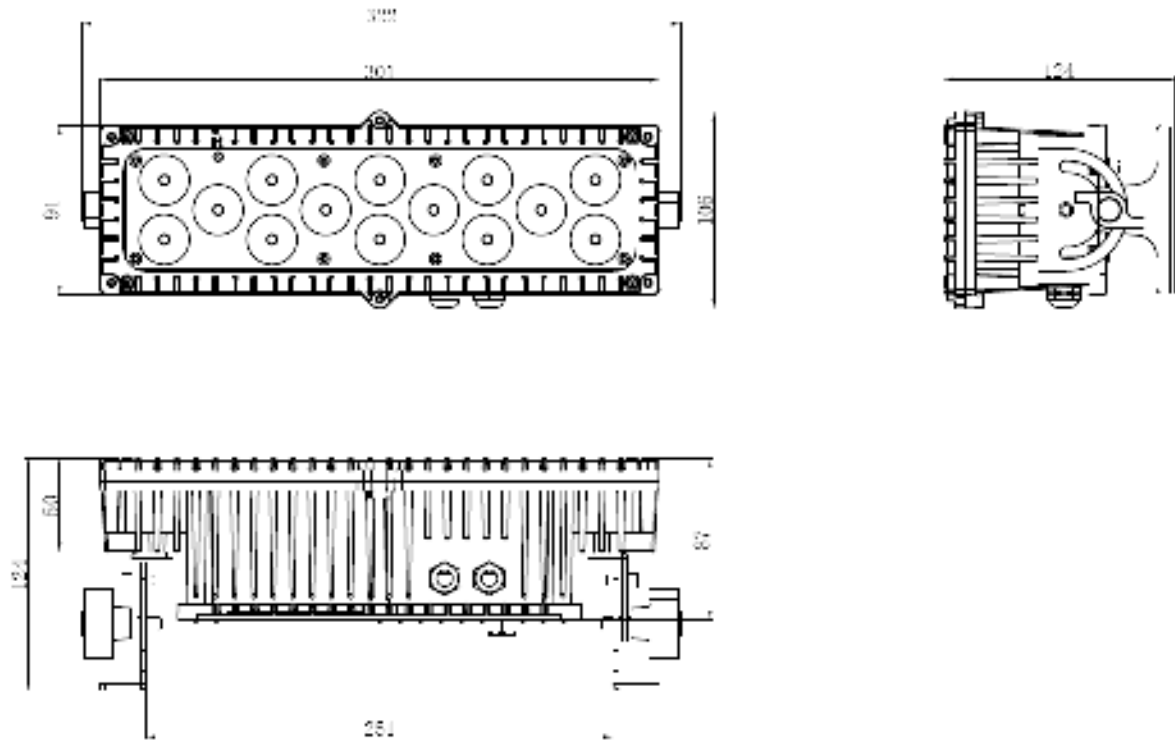
4. Main Function

- ➢ Input voltage: AC 100V-264V/47-63HZ

- ➢ Power Consumption：50W

- ➢ Maximum Power: 50W

- ➢ Lamp Type：3W LED 3-in-1 R、G、B (14PCS)

- ➢ Life span: 50000~100000hours

- ➢ PWM Dimmer：1500HZ(16666 grades)

- ➢ Control Signal：DMX512

- ➢ Control mode：stand alone/ Master/Slaver

- ➢ Infrared keyboard control

- ➢ IR Remote Included

- ➢ Channel：7CH/5CH/3CH

- ➢ Function Effect: dimmer, strobe, gradual change

- ➢ Touch buttons, automatic lock key

- ➢ Cooling mode: Natural Convection

- ➢ Anti-electricity intension：1.5KV

- ➢ Insulation Resistance:>2MΩ

- ➢ Beam Angle: 25°(15°,45°,60° Optional)

- ➢ Net Weight: 2.4KG

- ➢ IP Rate：IP65

- ➢ Dimension: 30*8*9CM

5. DMX Control Function

➢ DMX Channels

3CH	5CH	7CH	Value	Function
-	CH1	CH1	0-255	Dim all
CH1	CH2	CH2	0-255	R
CH2	CH3	CH3	0-255	G
CH3	CH4	CH4	0-255	B
-	-	CH5	0-29	No effect
			30-59	AUTO 1(R,G,B,RG,RB,GB)
			60-89	AUTO 2(R↑,R↓,G↑,G↓,B↑,B↓)
			90-119	AUTO 3(R↑G↑,R↓G↓,R↑B↑,R↓B↓,B↑G↑,B↓G↓)
			120-149	AUTO 4(R↑G↑B↑,R↓G↓B↓)
			150-179	AUTO 5(Rainbow effect: B,BG↑,BG,B↓G,G,GR↑,GR,G↓R,R,RB↑,RB,R↓B)
			180-209	CHASE1
			210-255	CHASE2
-	-	CH6	0-255	Auto speed, slow->fast
-	CH5	CH7	0-5	No strobe
			6-115	Normal strobe(slow to fast)(Synchronous)
			116-130	Random burst strobe(slow to fast)(Asynchronous)
			131-170	Electronic Sine wave(slow to fast)
			171-210	Opening pulse(slow to fast)
			211-250	Closing pulse(slow to fast)
			251-255	No strobe

6. Display Operation instruction
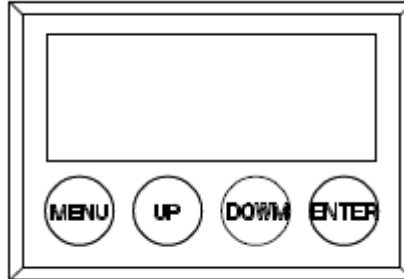
➤ MENU : access the menu or return to a previous menu option

➤ ENTER: select the current menu option

➤ UP: menu selection or parameter increments

➤ DOWN: menu selection or parameters decrease

Menu Tree

TAB	LEVEL1	LEVEL2	LEVEL3	LEVEL4
ADDR(Address)	001-512			
STAT(Static control)	R	0-255 *		
	G	0-255 *		
	B	0-255 *		
	SHUT	0-255 *		
SET(Set)	CAL(Calibration)	R	0-255	
		G	0-255	
		B	0-255	
		USE	YES/NO	
	CHMD(Channel mode)	7CH		
		5CH		
		3CH		
	DIM(Dimming mode)	LIN(linear)/SQR(square law)/ISQR(inverse square law)/SCUR(S-curve)/LIN.(linear smooth)/SQR.(square law smooth)/ISQR.(inverse square law smooth)/SCUR.(S-curve smooth)		

	LOCK	YES/NO		
AUTO(Auto)	AT01	RUN.. *		
	.	RUN.. *		
	.	RUN.. *		
	.	RUN.. *		
	AT05	RUN.. *		
	ATSP(Auto speed)	0-255(S)		
	CHS1（Chase 1）	RUN.. *		
	CHS2（Chase 2）	RUN.. *		
PROG（Program）	CHS1（Chase 1）	SC01（Scene 1）	R	0-255
	.	.	G	0-255
	.	.	B	0-255
	.	.	SHUT	0-255
	.	.	AUTO	NONE,AT01-AT05
	.	.	ATSP	0-255(S)
	.	.	TIME	0-255(S)
	.	.	WAIT	0-25.5(S)
	.	.	USE	YES/NO
	.	SC25（Scene 25）		
	CHS2（Chase 3）			
INFO（Information）	SOFT(Software version)	Vx.x		
	POW(Power reduction)	xxx%		
	TEM(temperature)	xxxC		
LOAD(Load)	ST L（Setting load）	YES/NO		
	PR L（Program load）	YES/NO		
SEND(Send)	YES/NO			

Instructions：

When enter to the "*" position displayed on the LED, the light will automatically set as master and send data to external. Other fixtures can receive this data and will synchronously running without manually set as slave. When power cycle it will jump to the "*" position and running again.And in these position it will not return back to the default display after two minutes.

6.1 DMX ADDRESS SETTING

1) Press the 【ENTER】 button in 【ADDR】 menu, then enter to the DMX address setting.

2) Press the【UP/DOWN】button to select【1-512】numerical value.

3) Press the【ENTER】button to escape and save.

6.2 STATIC SETTING

1) Press the【ENTER】button in 【STAT】menu, then enter to the static setting.

2) Press the【UP/DOWN】 button to select 【RED】，【GREEN】，【BLUE】and【SHUT】.

3) Press the【UP/DOWN】button to set up the【0-255】numerical value.

4) Press the【ENTER】button to escape and save.

6.3 COLOR CAST CALIBRATION SETTING

1) Press the【ENTER】button in 【CAL】menu, then enter to the color cast calibration setting.

2) Press the【UP/DOWN】button to select 【RED】，【GREEN】...【BLUE】

3) Press the【UP/DOWN】button to set up the【0-255】numerical value.

4) On the【USE】interface, pressing【YES】button means valid,【NO】means invalid.

5) Press the【ENTER】button to escape and save.

Illustrations: When pressing the【YES】button which means valid on the【USE】interface, the actual output value

of RED...WHITE is output in accordance with the percentage which the color cast calibration value divides 255.

6.4 CHANNEL MODE SETTING

1) Press the【ENTER】button in 【CHMD】menu, then enter to the channel mode setting.

2) Press the【UP/DOWN】button to select【7CH】，【5CH】，【3CH】

3) Press the【ENTER】button to escape and save.

6.5 DIMMING MODE SETTING

1) Press the【ENTER】button in【DIM】menu, then enter to the dimming mode setting.

2) Press the【UP/DOWN】button to select【LIN】，【SQR】，【ISQR】，【SCUR】，【LIN.】，【SQR.】，【ISQR.】and【SCUR.】.

3) Press the【ENTER】button to escape and save.

Illustrations：When setting【LIN.】，【SQR.】，【ISQR.】and 【SCUR.】 in 【DIM】 menu, there will be
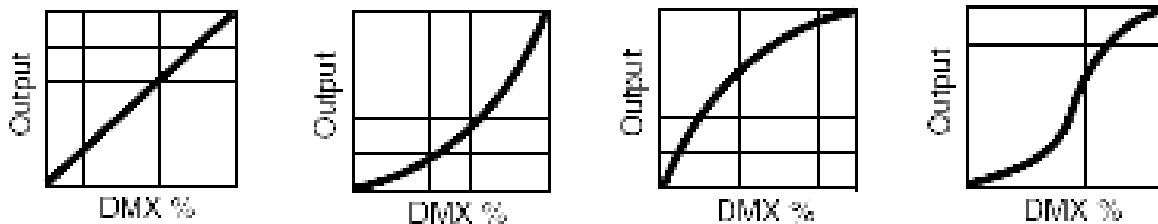
added a little delay dimming effect for smooth..

Dimming curve:

Linear curve: square law curve: Inverse Square law curve: S-curve:

Output DMX %   Output DMX %   Output DMX %   Output DMX %

6.6 AUTO LOCK KEY SETTING

1) Press the【ENTER】button in【LOCK】menu, then enter auto lock key setting.

2) Press the【UP/DOWN】button to select【YES】,【NO】

3) Press the【ENTER】button to escape and save.

Instructions:

When set to [YES], it will lock automatically after two minutes to prevent accidental triggering flood flushing. When in the order press MENU->UP->DOWN->ENTER three times to unlock，and the time between two keys be press down must within 2 seconds.

6.7 AUTO RUN, SELF-PROGRAM RUN

1)Press the【ENTER】button in【AUTO】menu, then enter to the auto run,self-program run.

2)Press the【UP/DOWN】button to select【AT01】…【AT05】，【AUTO SPEED】，【CHASE01】…【CHASE02】

3)Press the【ENTER】button to start running.

6.8 EDIT SELF-PROGRAM

1) Press the【ENTER】button in【PROG】menu, then enter to the edit self-program.

2) Press the【UP/DOWN】button to select【CHASE01】…【CHASE02】

3) Press the【ENTER】button for confirmation and enter to the next menu.

4) Press the【UP/DOWN】button to select【SCENE01】…【SCENE25】

5) Press the【ENTER】button for confirmation and enter to the next menu.

6) Then press the【UP/DOWN】button to select【RED】…【SHUT】，【TIME】，【WAIT】，【USE】

7) Press the【UP/DOWN】button to set up the parameter which are needed.

8) Press the【ENTER】button t o escape and save.

Illustrations：When【USE】is set to be【NO】，or the parameter of【TIME】is 0, it will not run this scene.When 【WAIT】is set to be FADE time, the running process isas the following chart showing.
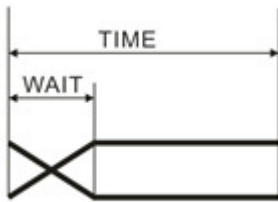
6.9 CHECK THE LIGHTING INFORMATION

1) Press the【ENTER】button in【INFO】menu, then enter to the checking the lighting information.

2)【SOFT】button is for software version information.

3)【POW】button is for the current information of power reduction.

4)【TEM】is the current temperature of lamp.

6.10 LIGHTING SETTING PARAMETER RESET

1) Press the【ENTER】button in【ST L】menu, then enter to the lighting setting parameter reset.

2) Press the【UP/DOWN】button to select【YES】.

3) Press the【ENTER】button to escape and save.

Illustrations： "ADDR" and "PROG" are not reset, the others reset to the underlined value of the word.

6.11 【PROG】SELF-PROGRAMMING PARAMETER RESET

1) Press the【ENTER】button in【PR L】menu, then enter to the【PROG】self-programming parameter reset.

2) Press the【UP/DOWN】button to select【YES】.

3) Press the【ENTER】button to escape and save.

6.12 LIGHTING PARAMETER DOWNLOADING EACH OTHER VIA DMX CABLE

1) Press the【ENTER】button in【SEND】menu, then enter to sending parameter to other lightings.

2) Press the【UP/DOWN】button to select【YES】.

3) Press the【ENTER】button to confirm sending.

Illustrations：

1)Please disconnect the connection of projector and DMX console before sending the parameter.

2)The information of【ADDR】、【CAL】can't be sent, can't be downloaded each other.

3)There will be an automatic reset of the other projectors after receiving parameter correctly.

7. Infrared keyboard operation
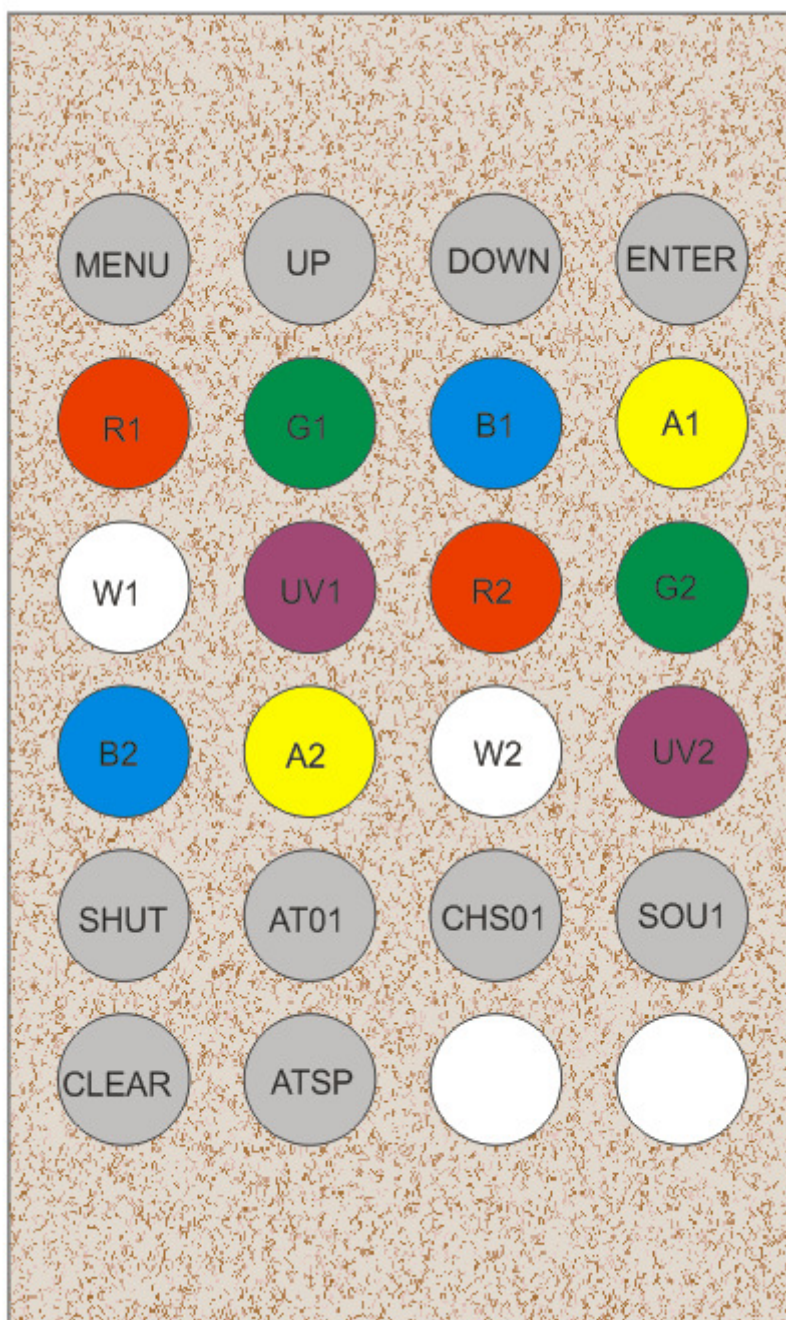
1) 【MENU】,【UP】,【DOWN】,【ENTER】is same as the keys on the fixture.

2) 【R1】...【B1】,【SHUT】is shortcut for 【STAT】.

3) 【AT01】,【CHS01】,【ATSP】 is correspond to the positon of 【AT01】,【CHS01】 in the MENU.

4) 【CLEAR】is clear the value of 【R1】,【G1】...【SHUT】 then save and reset。

8. Operating Control Instruction

➢ Master/Slave

When the fixtures work in master mode it will send out the signal for the slave synchronous with it. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters (20 lamps), should increase a signal amplifier.

9. XLR cable connecting

➢ XLR cable：

The standard connection way of the XLR is: one end connects to the male plug, and the other connects to the female. As below: pin 1: ground, pin 2: negative signal, pin 3: positive signal
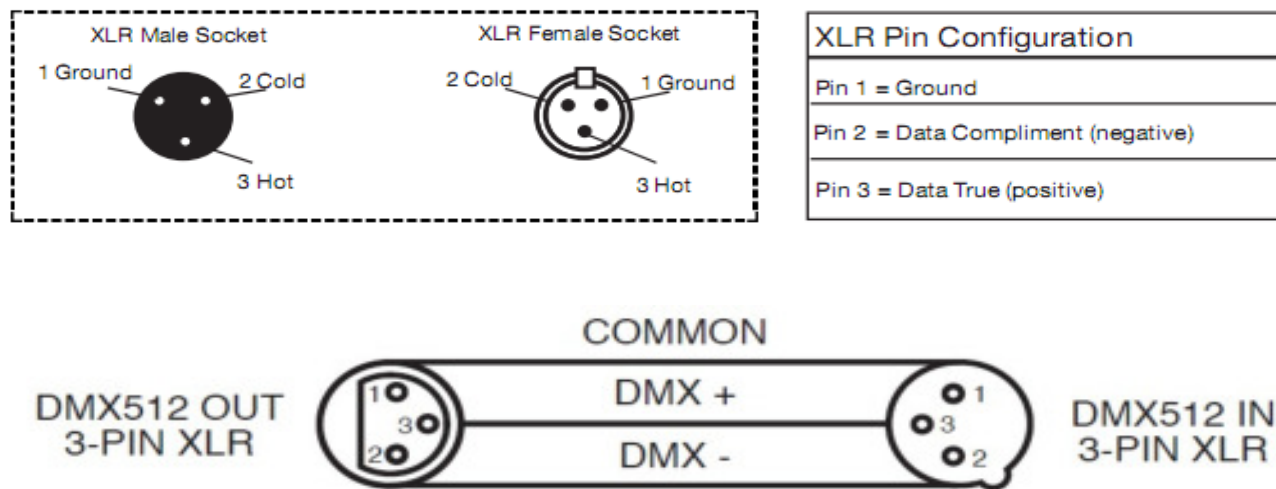
Noted：In order to avoid failures and interference signal transmission，we connect a

resistance120Ω（ 1/4W ） at the end of the DMX connecting as below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➢ The Conversion between 3 pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

10. Trouble Shooting

PROBLEM	REASON AND ACTION
The lighting can't be started normally	➢ Check the power connection is correct or not. ➢ Please detect the voltage. ➢ Power supply is damaged or incorrect connected. Call a qualified personnel to fix it. ➢ Connection of control board is not correct. Call a qualified personnel to fix it.
Out of console's control	➢ □ Please check the DMX connector and the power connection is connected correctly or not. It means having signal if it shows twinkling of the decimal point which in the lower right corner of the screen when exiting the screen saver. ➢ Please check the DMX address setting of lighting is correct or not. ➢ Check【CHMD】setting is correct or not. ➢ Please check whether the DMX line is near to the high voltage wire or not. In that case, it will damage or interfere the DMX electric circuit.
The beam appears dim ,the brightness declines obviously	➢ Check whether the 【CAL】is started or not and the set value is too small. ➢ Check whether the【POW】is in over temperature protection situation or not, if yes, please take measures for ventilation.