

G·LITES™

WWW.G-LITES.COM



**G-LITES ARCH 90
90X3W (RGBWA)
USER MANUAL**

1. GENERAL INFORMATION

INTRODUCTION: Congratulations, you have just purchased one of the most innovative and reliable LED fixtures on the market today. Our company has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

Notice: As part of our ongoing commitment to continuous products update, company will keep the right to improve this products, the information in this menu may be changed in the future, the company reserve the right to change the data without any advises.

UNPACKING: Thank you for purchasing our company products. Every product has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Inside the box you should find: the fixture, a DMX XLR cable, a power cable, and this user manual.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

2. SAFETY INSTRUCTIONS

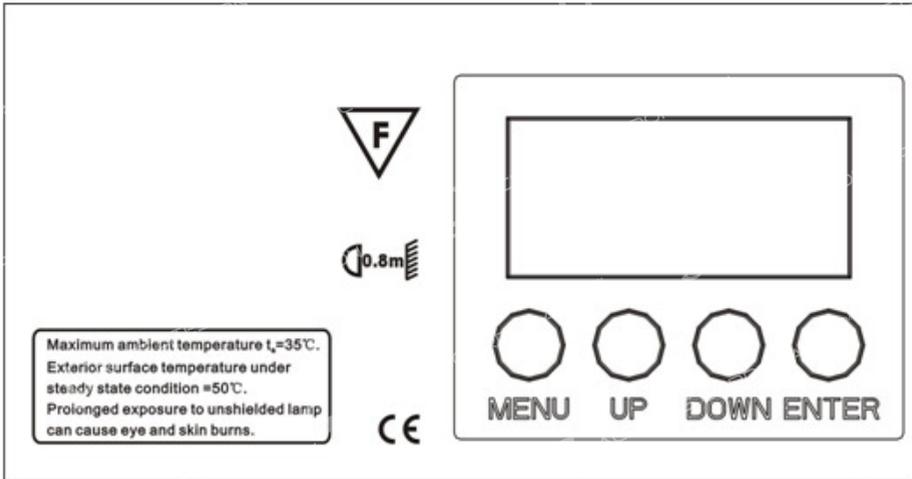
Notice: To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. Our company will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

- 1. In order to ensure the light could operate normally, the ambient temperature couldn't be higher than 35°C and no lower than 2°C.
- 2. Under normal condition, the highest sectional surface temperature may be up to 50°C.
- 3. These projectors are designed depends on the electric shock protection, the projector should be connected with the power supply system which connected ground enough. The projector's ground cable should be connected with the ground cable of the power supply system as well. The ground mark of the light metal cover should be connecting with the installation bricked steadily.
- 4. Connecting the main power supply should be done by the professional person.
- 5. Please check the voltage, frequency data of power supply system is suitable for the mentioned on the projector. Please do avoid the different voltage between them and burn the projector.
- 6. Do not attempt to operate this fixture if the power cord has become damaged or frayed.
- 7. Never open this fixture while in use.
- 8. Never look directly into the light source. You risk injury to your retina, which may induce blindness.
- 9. Please be aware that damages caused by modifications to the device are not subject to warranty.

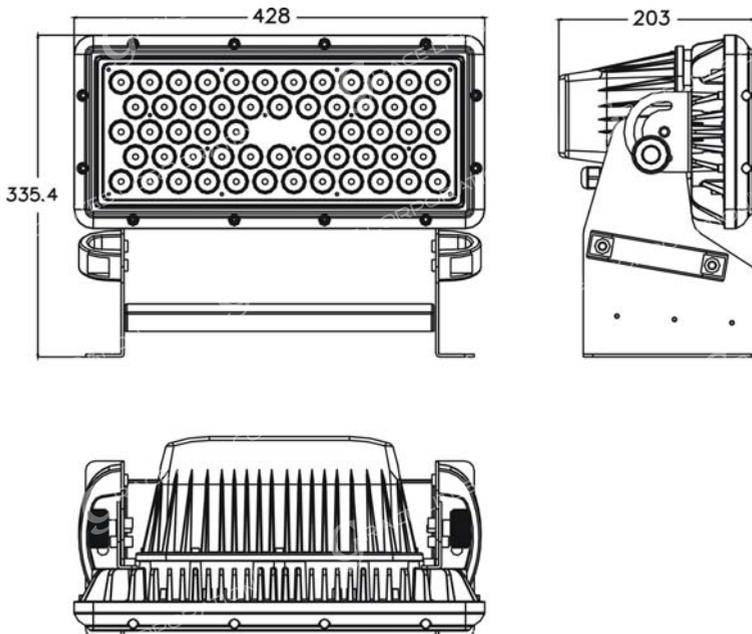
3. PERFORMANCE TRAIT AND SKILL SPECIFICATIONS

- ◎ Lighting equipment is installed with 90pcs LED, Lighting equipment use the LED illuminant with high performance and super luminance.
- ◎ Voltage: 200V-240V/50Hz (90V-260V is selective)
- ◎ LED QTY:12R+12G+18B+18W+30A
- ◎ LED power: 3W
- ◎ Power: 280W
- ◎ Size: 513 x 523 x 418 mm / 20.2 x 20.6 x 16.5 inches
- ◎ N.W.: 10 Kg. / 22 Lb.
- ◎ G.W.:12.5 Kg.
- ◎ Body size: 428 x 203 x 335.4 (mm)
- ◎ Lens angle: standard 45° (15°, 30°, 60° are selective)
- ◎It adopt the LCD display ,as its operating in terrace, very easy for using on the floor or hang on.
- ◎With inner automatic run function, master/slave setting very easy to operate by users.
- ◎The fixture's out shape adopt pressed construction design and strong wind refrigeration system which be know as a good cooling system.
- ◎DMX channel: Six and eight channel mode.
- ◎Standard DMX-512.
- ◎Color Mixing: color additive mixing.
- ◎Dimmer: Continuous dimming 0~100%.
- ◎Strobe: Electronic strobe 0~18 Fps.
- ◎LED Life: 100,000 hours rated life.

4. OPERATION PANEL

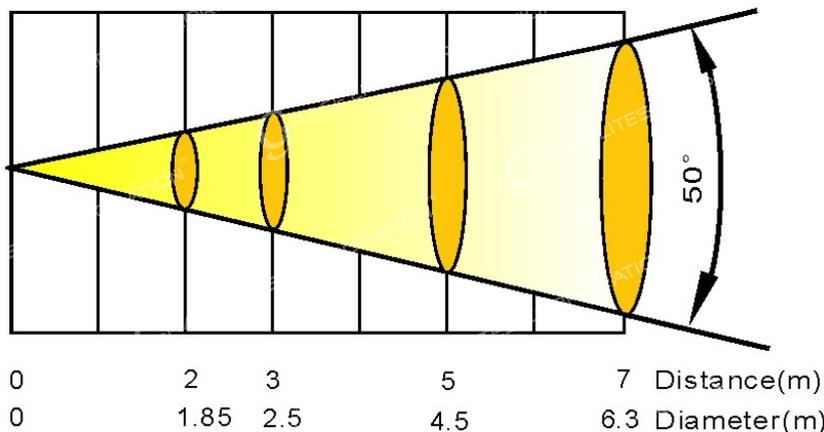


5. DIMENSIONAL DRAWINGS



6. PHOTOMETRIC DATA

R	687	320	120	63 LUX
G	992	473	175	96 LUX
B	2140	1020	380	210 LUX
W	1510	720	265	150 LUX
A	1350	625	225	120 LUX
RB	2820	1340	500	275 LUX
WB	3620	1735	635	350 LUX
ALL	5420	2550	952	520 LUX



7. MOUNTING AND INSTALLATION

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, and away from areas where unauthorized personnel might reach the fixture. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.



CAUTION!

Be sure a qualified electrician performs all electrical connections.

Mounting points:

This fixture can be placed on a flat level surface. Be sure this fixture is kept at least 0.5m (1.6feet) away from any flammable materials

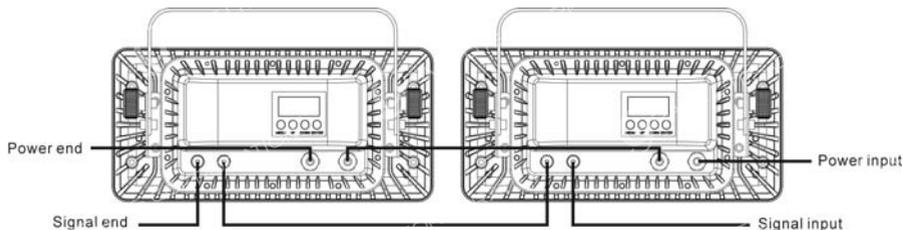
8. POWER SUPPLY AND SIGNAL CONNECTION

1. Power supply

Use the professional plug to connect the projector and main power supply. Please pay attention to the voltage, frequency the same as the mentioned on the projector. Suggest each light has separately switched of the power supply so that could turn on or turn off each projector desultorily.

2. Signal connection

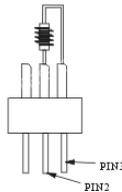
Please use the round 3-pin XLR plugs & sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third projector's input. And in the same way for the rest, eventually connect the last projector's output, all the projectors are together as the following figure.



The projectors' control signal output or input by using the 3-pin XLR pug and socket. If need to long then the communication cable, please make sure the both side of 3-pin plug is one to one. (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-pin shielded cable 75 Ω

Resistance with each core is at least a 0.5mm diameter. (Caution: All the inside leading wire of 3-pin XLR plug couldn't touch each other or plinth).

Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a 120Ω/1w resistor connected across pin 2 and 3. Which is then plugged into the output socket on the last projector in the chain. Refer to the connection as above:(Picture).We suggest using the DMX signal distributor when the distance of the lights over 15meter,In case of effect the light communication because of the signal feeble.



3. Light power connection:

After doing the above operation and making sure all the projectors had been installed with natural operate, press the power switch to check whether everything is working normally.

9. DISPLAY MENU

ADDR	→	A.001	Adjusting DMX addressing data
		A.002	
		↓	
		A.512	
↓			
MODE	→	6CH	Select DMX mode(default 6CH)
		8CH	
↓			
TEM1	Display drive board temperature		
↓			
TEM2	Display radiation board temperature		

- Note:**
1. Power, the bottom right corner of the display window small dots lit, indicating that the Lighting equipment is switched on.
 2. Power, the display window flashes the bottom right corner of the small dots, indicating that the lamp is switched on DMX512 signal control status is pending.
 3. Key in the absence of any action, the display menu will automatically turn off after 15 seconds.

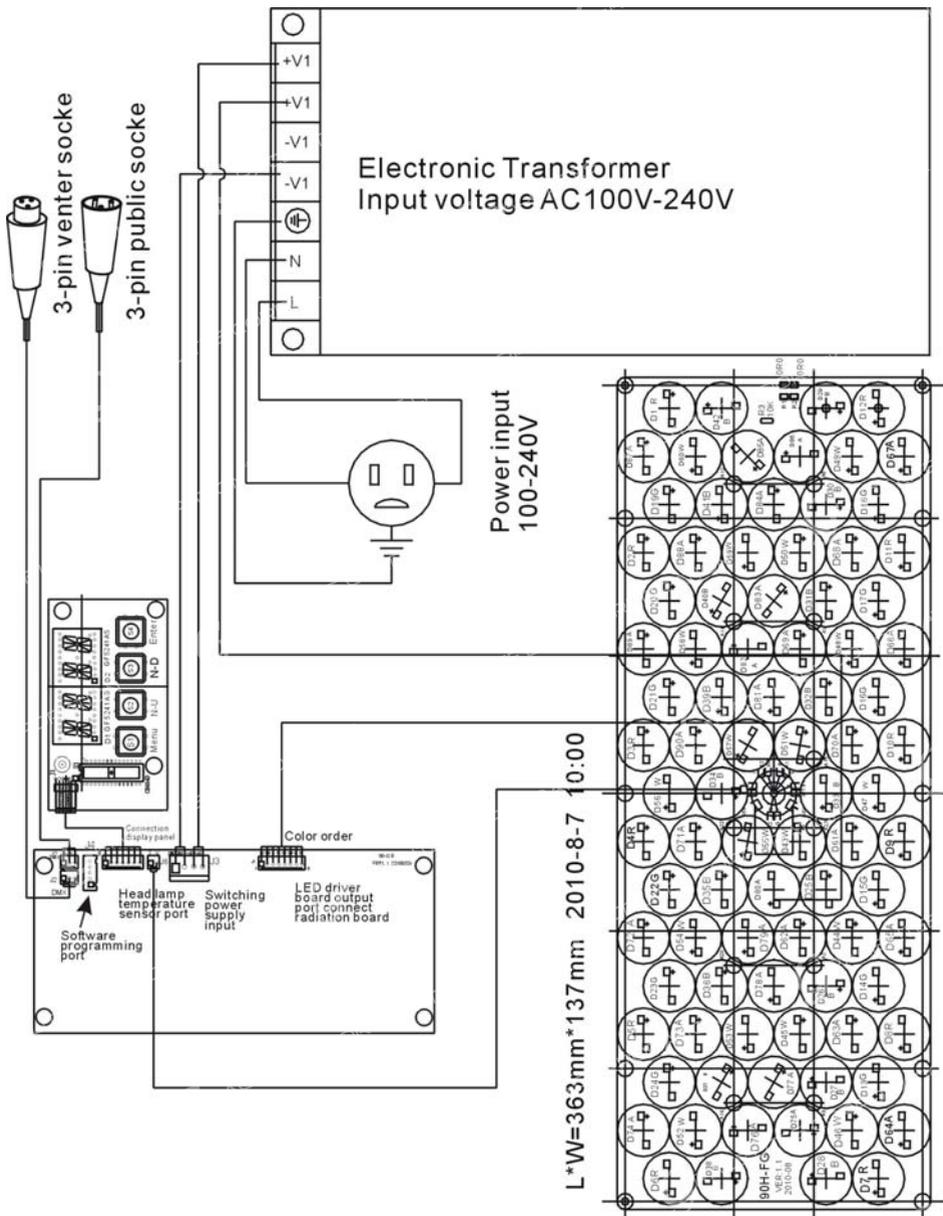
10. DMX TRAITS

Channel model	Channel order	function	DMX values and effect
6	1	RED	0, no light; 1-255, by dark to 100% light
	2	GREEN	0, no light; 1-255, by dark to 100% light
	3	BLUE	0, no light; 1-255, by dark to 100% light
	4	WHITE	0, no light; 1-255, by dark to 100% light
	5	AMBER	0, no light; 1-255, by dark to 100% light
	6	DIMMER	0-255 By dark to light dimmer

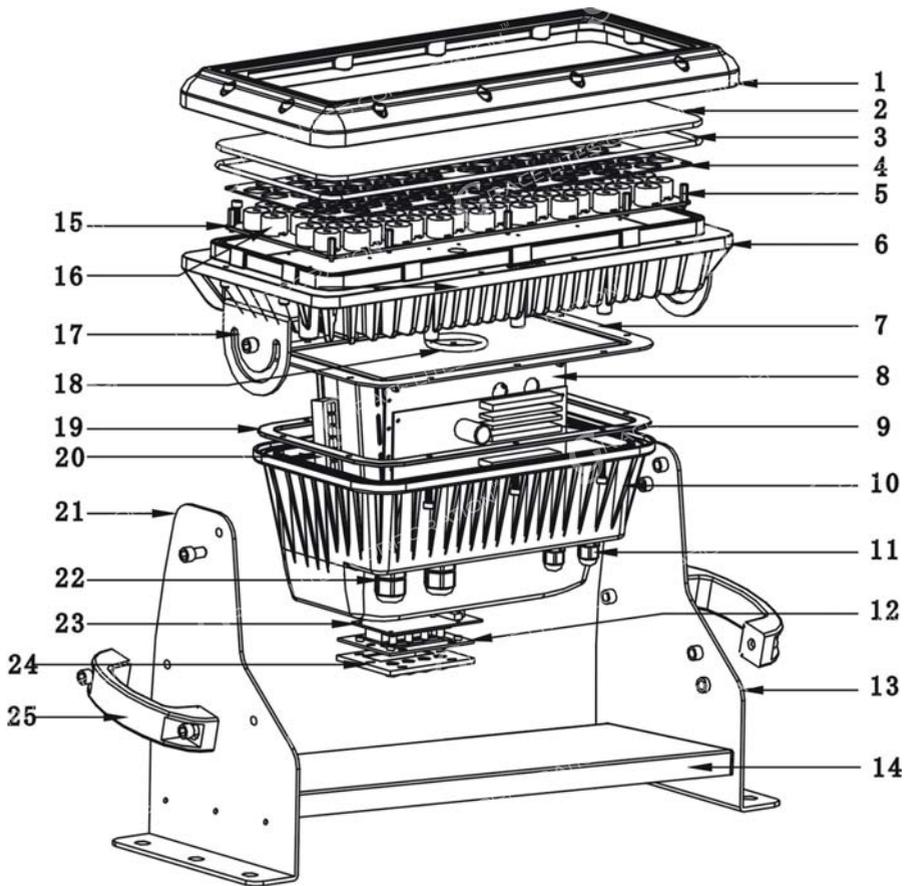
Channel model	Channel order	function	DMX values and effect
8	1	RED	0, no light; 1-255, by dark to 100% light
	2	GREEN	0, no light; 1-255, by dark to 100% light
	3	BLUE	0, no light; 1-255, by dark to 100% light
	4	WHITE	0, no light; 1-255, by dark to 100% light
	5	AMBER	0, no light; 1-255, by dark to 100% light
	6	DIMMER	0-255, By dark to light dimmer
	7	SHUTTER	0-3, No shutter; 4-83, fast light slow destroy; 84-163, slow light fast destroy; 164-255, by slow to fast shutter
	8	MACRO	0-3, No; 4-255, by slow to fast Note: In accordance with 1-5 channel phase (DMX value size) order successively bright

Note: The console is closed, lights turned off before the state will remain.

11. CIRCUIT CONNECTING DIAGRAM



12. EXPLODE DIAGRAM AND LIST



GRACE LITES CORPORATION

42245 Remington Ave. Suite B16 Temecula, California, 92590.
Customer Service Phone Number: 951 695 8618 or 951 479 8895
Fax Line: 951 296 2889 or 951 231 2568 // info@g-lites.com



No.	Inquire number	No.	Inquire number
1	M0400150	14	M01019108
2	M0600825	15	Z0600742
3	M0300772	16	M0600930
4	M0101994	17	M0101978
5	M0202175	18	M0300774
6	M0400149	19	M0300773
7	M0101975	20	M1000908
8	M0101976	21	M01019106
9	Z0600176	22	M1300768
10	M0400151	23	Z0600325
11	M1300767	24	M0300768
12	M0101965	25	M0101979
13	M01019107		

13. TROUBLE DISPOSE

It is recommended some solution for some normal trouble shooting. Any inextricability problems should always be handling by the professional person. Disconnect the power supply before maintenance the light.

●LED off:

1. Please check if install the suitable voltage
2. Please check whether the LED will reach the end of their life can explode; please replace a same description LED.
3. Please check if the power supply is enough.
4. Please check whether the DMX 512 controller pass the "turn on" order.

●Though the light is lighting, but it couldn't accept the control order:

1. Please check the start code address and the function option are correct.
2. Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.
3. Please check the control system is not valid, check the signal amplifier of chain connected is valid.
4. Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
5. Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
6. Add the signal amplify isolator.
7. Signal cable is used the excellent screening doublet (Resistance 75 OHM)
8. The end of the light end and the end resistance.

●The light can't move:

1. Please check if the power supply is suitable for the light voltage data.
2. Please check the fuse of input voltage is defective.

3. Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.

14. CLEANING AND MAINTENANCE

- 1. In order to ensure the projector could work normally. It should be kept clean always .The lens should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on lens. It will damage the projector.
- 2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.
- 3. Please disconnect the power supply when begin to maintenance take down the light. Please let the parts cool down 10 minute at least then begin to install.
- 4. Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or looseness must change a lamp or fix the lamp in order to avoid the accident.

CAUTION!

Disconnect from mains before starting maintenance operation.

15. DUTY EXONERATIVE AND COPYRIGHT PROTECTION

- ©Any products broken that didn't according to the instruction is not guarantee to keep it in good repair.
- ©The commentary for all the instruction belongs to the supplier in final.
- ©No authorize can't copy.