VG-PL100W 100W LED Zoom Fresnel Light User Manual

100W LED Zoom Fresnel Light

VG-PL100W



CERoHS

User Manual

📖Please read this user manual before using this product!

Keep it for further reference!

http://www.vangaa.com

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VG-PL100W 100W LED Zoom Fresnel Light User Manual

Thank you for using our product! Please read this manual carefully and completely. For technical reference in future, please keep this user manual well. This user manual contains all installation and operation information of this LED Fresnel Spot Light, it's very useful for user to install and operate the light. Please strictly abide by the relevant instruction for the installation and operation.

This light has very beautiful appearance. This is a professional LED Fixed Lens Spot Light. It uses high CRI and high power LED integrated lamp (COB lamp) as the light emitting element. So the light has high light efficiency, good color rendering, low glare value, long lifespan, energy conservation, environmental protection and other advantages. The light has high brightness, uniform light, which is very suitable for meeting room, studio and other places. Using DMX signal to realize the linear dimmer, more convenience. This light is saving energy and protecting environment, pure color temperature, it is a very suitable substitute of the traditional 100W LED Zoom Fresnel Light.

This light meets the following criteria:

GB7000.1-2007/IEC60598-1:2003

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

Ⅰ INTRODUCTION

Thank you for having chosen our 100W LED Fresnel Spot Light. You will see you have acquired a powerful and versatile device.

Unpack your 100W LED Zoom Fresnel Light

Delivery includes

100W LED Zoom Fresnel Light 1pc

Signal Receiver 1pc

DMX cable 1pc

Power cable 1pc

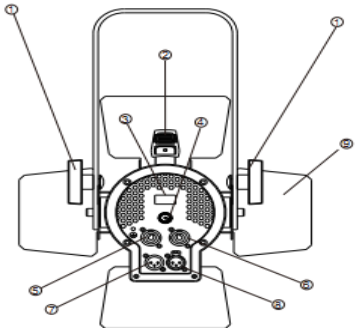
User Manual 1pc

Ⅱ DESCRIPTION OF THE DEVICE

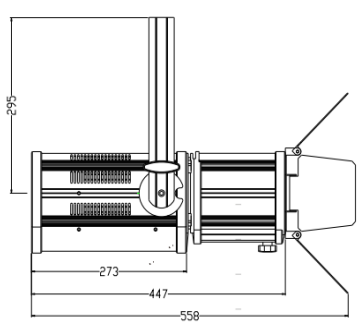
1.Profile

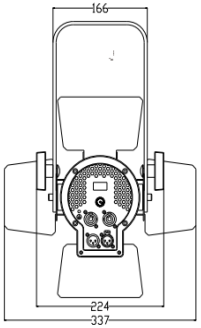
With the idea of energy saving and environment protection, the device use lower power loss with extremely high efficiency led. The device housing cover is made of new high strength heat resistance engineering plastics, with beautiful shape and smooth lines. The design and manufacturing are in compliance with IEC standard. The device is suitable for large-scale theatrical performance, theater, performance hall, bar, night club and so on.

2.Overview



①Fixation screws
②Filter holder
③LED Display
④Functon knob
⑤Power IN
⑥Power Out
⑦DMX IN
⑧DMX Out
⑨Barndoors





Unit: mm

All dimensions are in millimeters

3. Specification

Power supply: Electronic full-range AC100-240V 50/60Hz

Power consumption: 100W

DMC Chanel: 4CH,1CH

Color temperature: 3200K/5600K

CRI: >95Ra

LED life: >50000 hours

Protection grade: IP20

Use environment temperature: -20℃-40℃（-4° F-104° F)

Small volume, lightweight

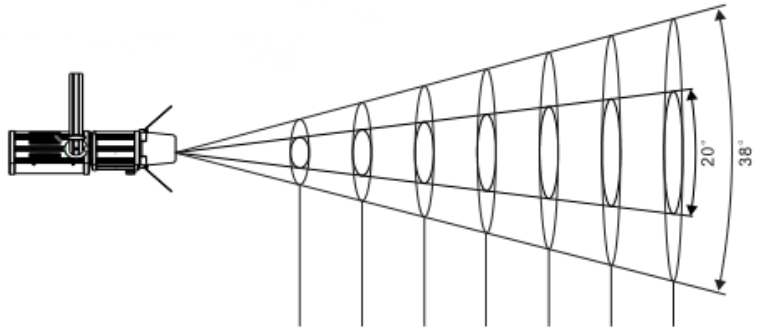
Adjustable Beam Angle:20° ~38°

Dimmer: 0~100% dimmer intensity

N.W.:6.25kg

Dimensions:447*224*170mm

4.Photographic chart



Ptojection Distance（m）	2m	3m	4m	5m	6m	7m	8m	
Illumintion Center(LUX)	11573	5090	2750	1751	1200	873	670	Beam angle 20°
Beam Diameter（cm）	70	106	141	176	212	247	282	
Illumintion Center(LUX)	5713	2628	1435	934	650	485	380	Beam angle38°
Beam Diameter（cm）	138	207	275	344	413	482	551	

5.Safety warning

① **Warning:**

- Every person involved with the installation, operation and maintenance of this device has to be qualified
- User must follow the instructions of this manual
- Unqualified person cannot open the housing cover and operate the device,or the dealer will not accept liability for any result defects or problems.
- Use and store the device against rain and moisture

② **Warning note**

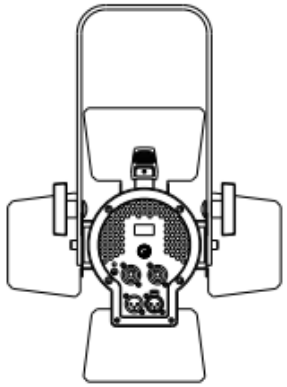
- Power Supply AC100V-240V,50HZ/60HZ
- Make sure the power switch is off, the power plug, outlet and the earth connection are in well condition before connecting the device with the mains.
- Please use qualified power plug and outlet. Never connect the power cord of this device with other electrical equipment.
- When moved and installed, make sure the device would not crash with metal parts or any other materials.
- Always disconnect from the mains, when the device is on installation and dismantling.
- The minimum distance between light output and the illuminated surface must be more than 50cm
- The device must only be installed on a non-flammable surface. In order to safeguard sufficient ventilation, leave 50 cm of free space around the device. Please note that heat-sensitive objects may be deformed or damaged by the emitted heat.
- During operation, the housing becomes very hot! Do not operate the device for15 minutes after switching off.
- The maximum ambient temperature Ta-45℃. Never exceed it. The maximum housing temperature Tb-80℃. Never exceed it.

- For indoor use only.
- Replace any visible cracked protective shield, filter and lens.
- The protective shield, filters and lens require weekly cleaning as smoke "fluid tends to building up to residues, reducing the light".

Ⅲ INSTALLATION

1. Installation

- When installed, keep the device far away from the heat sensitive objects and explosives sensitive objects, leave at least 50cm of free space around the device.



- When rigging the device to the truss with its head facing the floor, insert the quick-lock fasteners of the first mounting holder into the respective hole at the bottom of the device. Tighten the quick-lock fasteners fully clockwise. Install the second mounting holder. And the safety rope must be used at the same time.

- Please use qualified safety-rope, which can hold at least 10times the weight of the fixture. You must only use safety-ropes with quick links with screw cap.

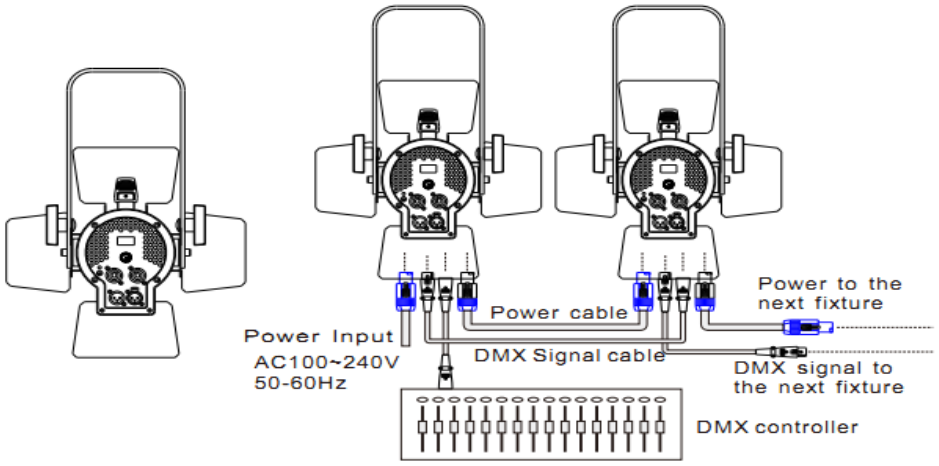
  Pull the safety-rope through the hole at the bottom of the base and over the trussing

system etc. Insert the end in the quick link and tighten the fixation screw. A safety rope which already hold the strain of a crash or which already hold the strain of a crash or which is defective must not be used again.

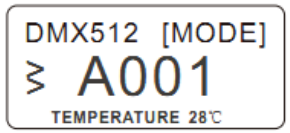
- When firstly used, please fasten the signal receiver on the mounting bracket as the following drawing, then connect the device through USB cable and signal cable.

2. Connection with mains

- The person involved with the power connection must be qualified, and has the electrical engineering certificate.
- Connect the device to the mains with the power plug.
- The earth has to be connected.
- Power consumption: 100W, input power supply: AC100V-240V, 50/60HZ.



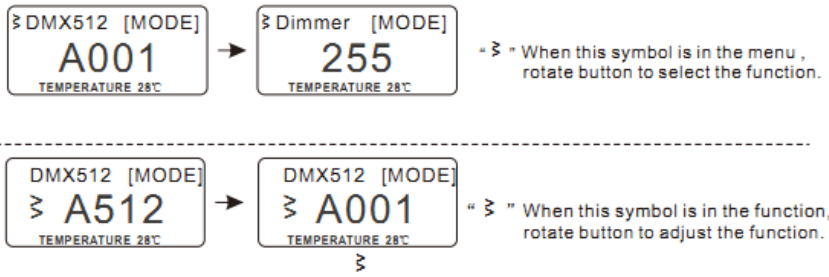
2. Control Board





Enter

- Press the function selection knob on control board to setting function
- <Enter> select or save



3. Replacing fuse

- Before replacing the fuse, unplug the main lead.
- Procedure:

Step1:Unscrew the fuse holder on the rear panel with a fitting screwdriver from housing(anti-clockwise).

Step2: Remove the old fuse in the fuse holder.

Step3: Install the new fuse in the fuse holder.

Step4: Replace the fuse holder in the housing and fix it.

Ⅳ OPERATION

1. Menu Structure





Enter the menu by turning the function selection knob, browse through the menu by turning left or right.
Press <Enter> to confirm or save.
"⪾" This symbol represents the current running function.

LED display	Function setting	
DMX512 [MODE]	Setting the DMX starting address	A001-A512
Dimmer [MODE]	Dimming	000-255
Strobe [MODE]	Setting the strobe speed	000-012
CHANNEL [MODE]	Setting DMX channels	1CH-4CH
PWM Frequency [MODE]	Setting PWM refresh frequency	1200Hz-20000Hz

Master/Slave Setting

1.Set the mast fixture to Dimmer or Strobe

2.Set each slave fixture to the same DMX001(As show below)

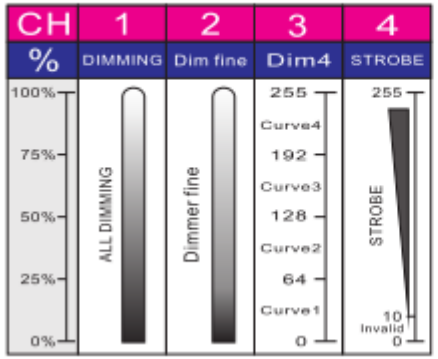


2. Basic setting

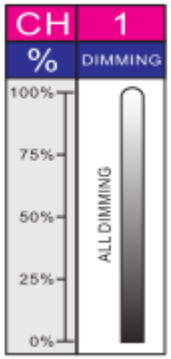
- [Address 001] is the default setting, then switch on the device, the device display with show the message [R 001]
- Press [ENTER] key into and select [R 001]. Use the [UP] and [DOWN] keys to select required address [r001-511] and press to confirm or to cancel and return to the main menu. press [ENTER] key to return and confirm;
- Press [UP] key to select [NASt, press [ENTER] key into and use the [UP] and [DOWN]keys to select [On/ OFF] , press [ENTER] to return and confirm ;
- Press [UP] key to select [dENO], press [ENTER] key into [ScOO] , Use the [UP] and [DOWN] keys to select [Sc00-02], press [ENTER] to return and confirm ;
- Press [UP] key to select [UOOO], press [ENTER] key into and use the [UP] key to select[nOO1-255], press [ENTER] to return and confirm. The function is only valid in the absence of DMX512 Signal.

3. DMX 4 channel chart

① 4 Channel Mode



② 1 Channel Mode

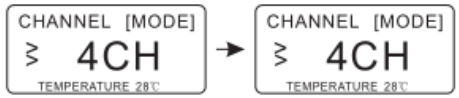


CHANNEL	DMX VALUE	FUNCTION
CH1-Dimming	000←→255	Levels master dimming
CH2-Dim fine	000←→255	Levels dimmer fine
CH3-Dim4	000←→063	First-level dimming delay function
	064←→127	Second-level dimming delay function
	128←→191	Third-level dimming delay function
	192←→255	Fourth-level dimming delay function
CH4-Strobe	000←→009	Levels without function
	010←→255	Levels strobe function

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1. 《Channels Function》

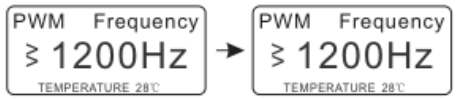
This fixture has 4-channel mode ,In DMX512 mode,If more than two fixtures have different settings, check whether the channel functions are consistent.
as show below ①②, Factory setting[4CH].



Fixture① Fixture②

2. 《PWMFunction》

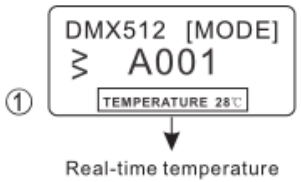
In DMX、Master/Slave mode, If the dimming smoothness and color output are different on more than two fixtures, check that whether the PWM settings are consistent.
as show below ①②, Factory setting[1200Hz].



Fixture① Fixture②

3. 《Temperature Monitoring Function》

This fixture has a temperature detection function. When the temperature is higher than 56 ° C, the fan will turn on and when the temperature is lower than <49 ° C. Fan will turn off; fan turn off is normal when temperature is <49 ° C.
as show below ① is Real-time temperature.



4. 《RDM Function》

If use the R D M function, that must use the console to search each fixture and change the fixture address code in the D M X 5 1 2 mode.

Identification Code: each fixture has an identification code as show below ①, the identification code of each fixture is different, Please check the fixture label.



5. 《DMX512 Function》

In D M X mode, the LED display screen flicker is normal when there is no DMX5 1 2 signal input, and the LED display is lights up when the DMX5 1 2 signal is input.

Ⅴ APPENDIX

Problem and solution

Problem	Reason	Solution
Device not work	No power	AC100-240V, 50/60Hz Check the power connection, and make sure the device connected with the mains in well condition. Check if the switch is on. Check if the fuse is normal.
LED Bulb off	LED bulb damaged	Replace LED bulb
	LED drive board damaged	Replace LED drive board
	Temperature switch damaged	Replace temperature switch
Fans not work	Fans damaged	Replace fans

Caution

- Unqualified person involved with installation, operation and maintenance of this device is prohibited
- If any above mentioned problem happened, or unknown problem happened, please contact the manufacturer or distributor for assistance.

Please keep this manual as reference.