VG-LVF400A 400W LED Profile Spot light User Manual

400W LED Profile Spot Light

VG-LVF400A



CE RoHS

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-LVF400A 400W LED Profile Spot 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 Profile 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. Based on the LED Film and Television Light Technology, using high brightness COB LED chips beads matrix arrangement of large area, through the whole aluminum shell to realize heat dissipation naturally, we have designed this light. This light has high brightness, good head dissipation, ultra-quiet and other features. It can satisfy the requirement of indoor movie filming for the lighting layout. It is a good substitute of the traditional Fresnel spot light, which is very suitable for the studio room, TV station, Meeting room, stage, show and other entertainment places.

This light meets the following criteria:

GB7000.1-2007/IEC60598-1:2003

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

Ⅰ PRODUCT MAIN FEATURES

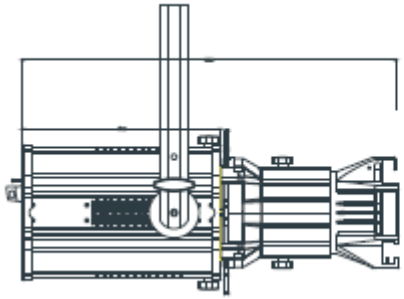
The light's lighting function is controlled by DMX-512 and RDM, very convenient;
Using international standard (1990) DMX single, digital control panel display;
With 4 DMX channel layout, every color can be controlled;
Dimmer range: 0~100%, 0~15% dimmer smoothly;
CRI more than 92, 1800-10000K color temperature adjustable, light effective distance is 3~30 meters;
Cast aluminum radiator, equips copper tube radiator, and mute fan cooling, realize the

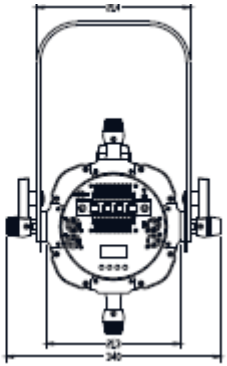
silent, intelligent temperature control system, improve the quality of our products stable performance, apply to indoor installation.

Using brand LED chips, integrated encapsulation, improve reliability and long lifespan.

Using the advanced optical reflective material, make the light on the projection distance and brightness is higher than traditional film soft light.

Ⅱ OVERVIEW AND DIMENSIONS





Unit：mm

All dimensions are in millimeters

Ⅲ SAFETY INFORMATION

※Important

Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

Verify that the voltage matches the rated voltage.

When the voltage is 110V, Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain

When the voltage is 220V, Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain

Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.

Always ground (earth) the fixture electrically.

Avoiding hit the Light when you are move or install the light.

The minimum distance between light-output and the illuminated surface must be more than 0.5 meters. Keep all combustible materials (for example fabric, wood, paper) at least 0.2 meters away from the fixture.

Do not expose the fixture to rain or moisture.

Avoid looking directly into the light source (especially those who suffer from epileptic fits)

Maximum ambient temperature (Ta) is 40°C. Do not operate fixture at temperatures higher than this.

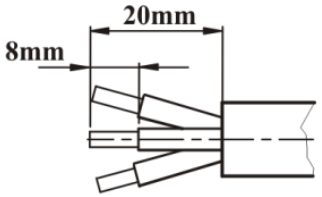
The Maximum surface temperature is 50°C

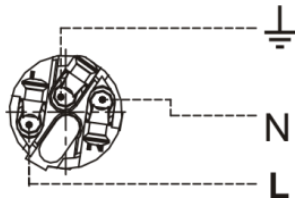
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

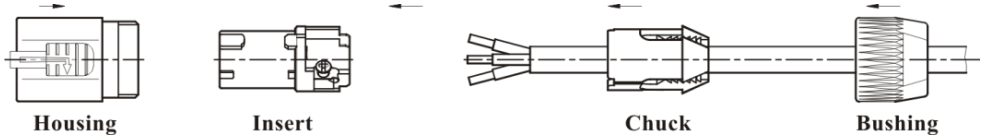
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

Ⅳ POWER CONNECTION

INSTALLING A NENUTRIK CONNECTOR ON A POWER CABLE







Put bushing and chuck onto the cable.

Prepare cable as shown above. The power cable must is a three-conductor 2.5mm2 cable.

Insert the wire into the terminals and fasten the clamping device by a flat screw driver.

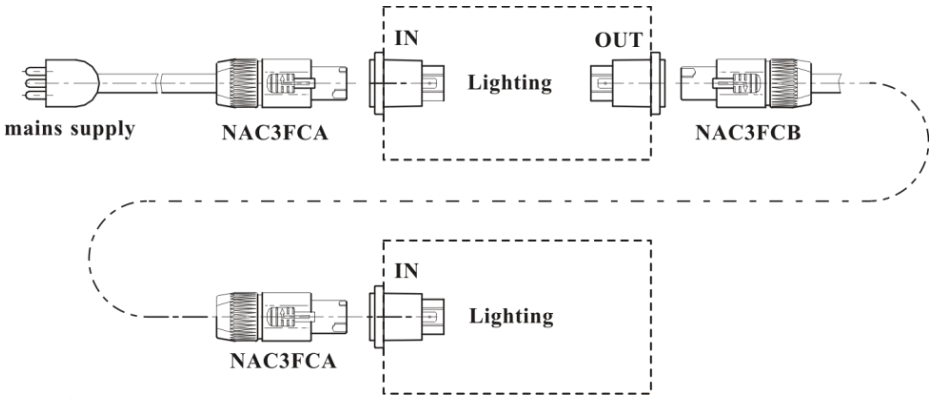
Push insert and chuck into housing (pay attention to the guiding keyway).

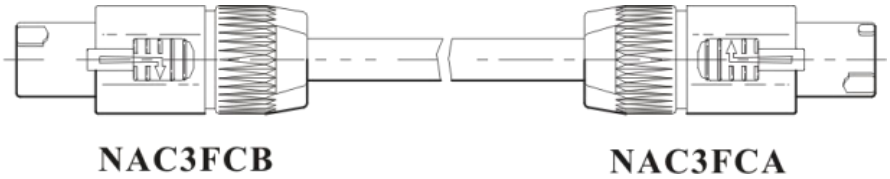
Fasten bushing.

The color-coding schemes and some possible pin identification schemes; if pins are not clearly identified, or if you have any doubts about proper installation, consult a qualified electrician.

RELAYING POWER TO OTHER DEVICES

The lightings can be linked in a chain by power cables which installed a blue and a light-gray connectors on the two ends. The light-gray connector connects to the power out socket of the first lighting, and the blue connector connects to the power in socket of the subsequent lighting, and so on.





The power cable must is a three-conductor 2.5mm2 cable.

When the voltage is 110V, Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain.

When the voltage is 220V, Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain.

Wire color	Conductor	Symbol
Brown	Live	L
Blue	Neutral	N
Yellow/green	ground	⏚

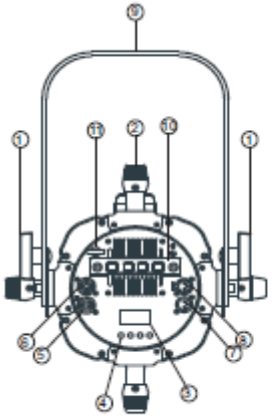
PHYSICAL INSTALLATION

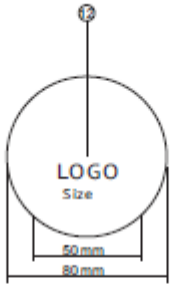
This lighting can be placed on a horizontal surface such as a stage or clamped to a truss or similar rigging structure in any orientation using a rigging clamp.

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.

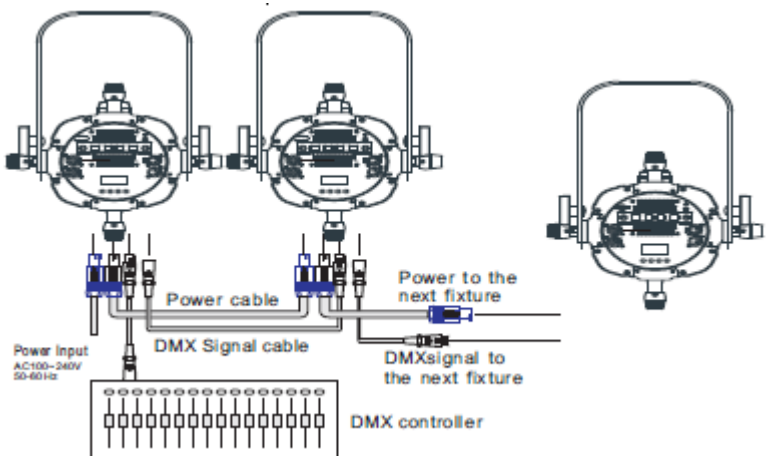
DESCRIPTION OF THE FIXTURE





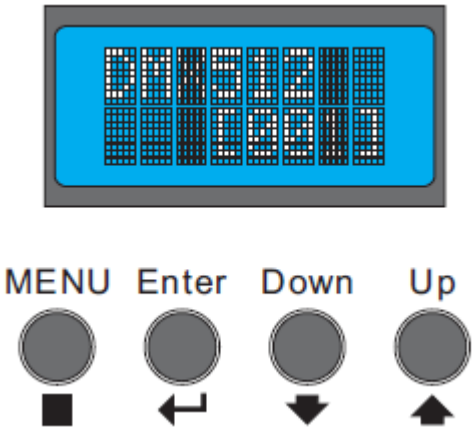
①Fixation screws
②Shutter blade
③LCD Display
④Function selection knob
⑤Power supply via P-Con socket
⑥Power Output via P-Con socket
⑦DMX output
⑧DMX input IN
⑨Mounting bracket
⑩Insulate handle
⑪Safety eyelet
⑫GOBO size

WIRING DIAGRAM



V CONTROL PANNEL

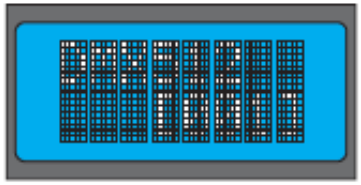
BUTTON



Adjust the key setting function on thecontrol panel

Press "**MENU**" --->Display first - level menu--->
Press "**Enter**" --->Display second- level menu--->
Press "**Down**" & "Up" to adjust relevant function->
Press "**Enter**" and "**MENU**" to quit current menu
Press "**Enter**" ---> To next first-level menu.

OPERATION

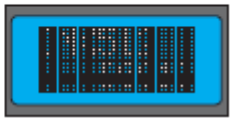


MENU Enter Down Up

LCD Display	Function Setting
DMX512 MODE	Setting the DMX starting from 001-512
Dimming [MODE]	Dimming 000-255
Strobe [MODE]	Setting the strobe speed 00-12
Channel [MODE]	Setting DMX Channels 1CH/4CH
PWM [MODE]	Setting PWM refresh freuency 1200Hz-20000Hz

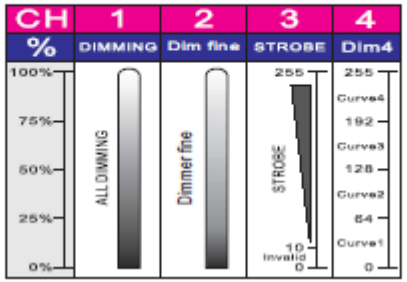
MASTER/ SLAVE SETTING

1. Set the mast fixture to Dimmer or Strobe
2. Set each slave fixture to the same DMX001 (As show below)



Ⅵ DMX PROTOCOL

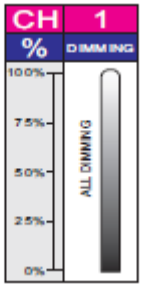
This fixture has two DMX channel mode options;
4channel mode① ; 1channel mode②;



①

4CH MODE

CH	Name	Value	Function
CH1	Dimming	000←→255	Levels master dimming
CH2	DIM Fine	000←→255	Levels dimming fine
CH3	Dim 4	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



②

1CH MODE

CH	Name	Value	Function
CH1	Dimming	000←→255	Levels master dimming

Ⅶ TECHNICAL SPECIFICATION

·Voltage: Electronic full- range AC 100-240V 50/60Hz

·Power consumption: 400W

·LED lifespan: 50,000hours

·Beam angle: Beam angle 19°（Beam angle 26°,36° available) with hight- efficiency

·Control mode: 1.DMX512　2. RDM　3.Master/ Slave Operation

·DMX channel: 4CH/1CH（available）

Connection: PowerCON IN & OUT; 3- Pin DMX In& Out(5 - Pin DMX available)

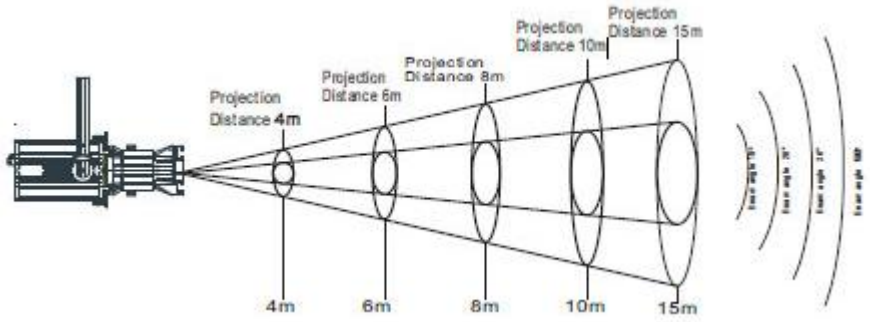
·Housing material: aluminum alloy

·Working temperature: Indoor IP20,no fan - 20℃- 40℃（- 4° F- 104° F)

Dimensions(LxWxH): 61.491X34X21.3cm

Weight: 11Kg

Ⅷ LUX CHART



Illumination Center/Lux	10545	4537	2529	1661	743	3200K	Beam angle 19°
	11100	4776	2662	1749	783	5600K	
Beam Diameter/cm	98	147	196	246	368		
Illumination Center/Lux	8292	3785	2024	1313	597	3200K	Beam angle 26°
	8729	3985	2131	1383	629	5600K	
Beam Diameter/cm	124	180	248	315	503		
Illumination Center/Lux	4479	2050	1125	709	334	3200K	Beam angle 36°
	4715	2158	1185	747	352	5600K	
Beam Diameter/cm	185	277	370	462	693		
Illumination Center/Lux	1757	849	417	307	149	3200K	Beam angle 50°
	1850	894	439	324	157	5600K	
Beam Diameter/cm	220	380	430	620	900		

Ⅸ APPENDIX

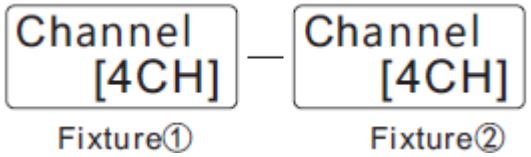
Problem and solution

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

Note

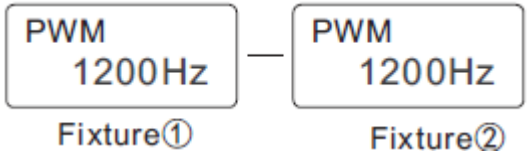
1. Channels Funtion

This fixture has 1- channel mode/4-channel mode
Selection. In DMX512 mode, if more than two fixtures have different settings, should check whether the channe functions are consistent,
as show below ①②, factory setting [4CH]



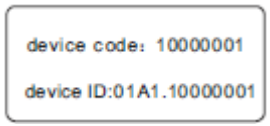
2. PWM Funtion

In DMX, Master/ Slave mode, if the dimming smoothness are different more than two fixture, should check that whether the PWM settings are consistent.
as show below①②, factory setting[1200Hz]



3. RDM Function

If use the RDM function, that must use the console to search each fixture and change the fixture address code in the DMX 512 mode. Identification Code: each fixture has an identification code as show below①, the identification code of each fixture is different, Please check he fixture label.



4. DMX512 Function

In DMX mode, the LED display screen flicker is normal when where is no DMX 512 signal input, and the LED display is lights up when the DMX 512 signal is input.

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 manufacturer or distributor for assistance.

Innovation, Quality, Performance, Achieving Users' Value!