VG-LVF230A 200W LED Profile Spot light User Manual

200W LED Profile Spot Light

VG-LVF230A



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-LVF230A 200W 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

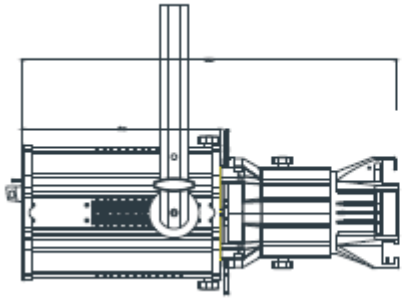
The light's lighting function is controlled by DMX-512 and RDM, very convenient;
Using international standard (1990) DMX single, digital control panel display;
With 4 DMX channel layout, every color can be controlled;
Dimmer range: 0~100%, 0~15% dimmer smoothly;
CRI more than 92, 1800-10000K color temperature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

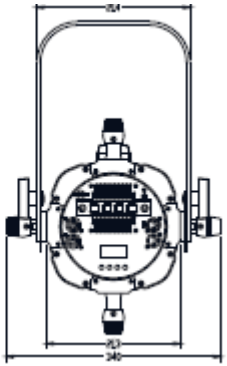
silent, intelligent temperature control system, improve the quality of our products stable performance, apply to indoor installation.

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.

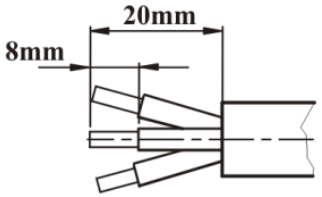
The Maximum surface temperature is 50°C

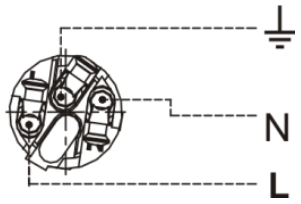
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

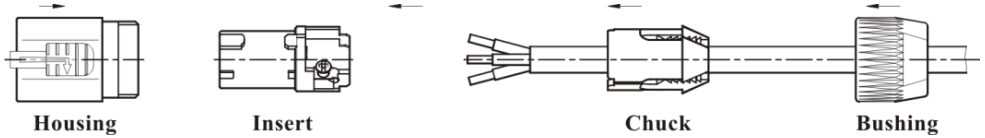
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

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.

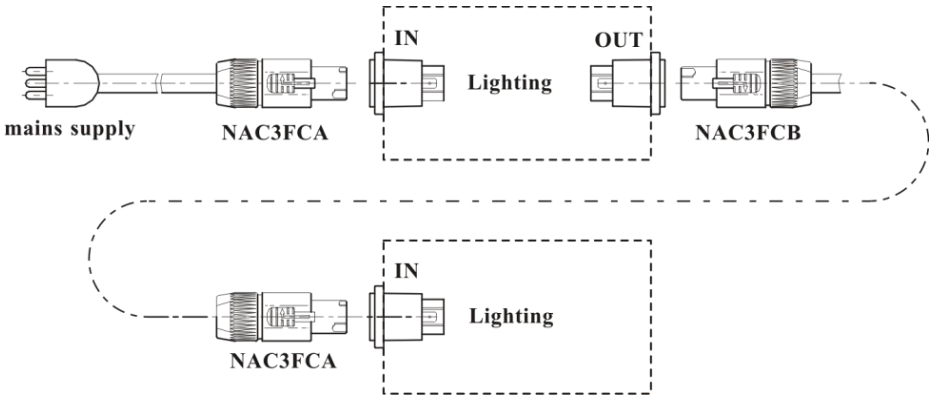
Push insert and chuck into housing (pay attention to the guiding keyway).

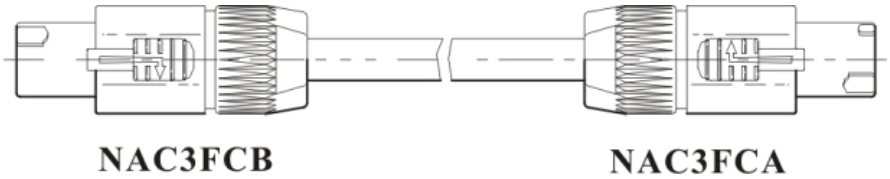
Fasten bushing.

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	⏚

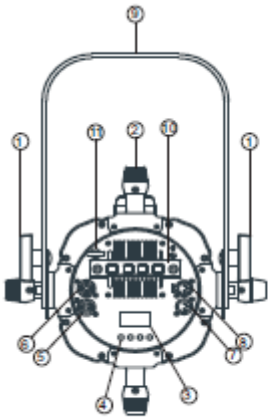
PHYSICAL INSTALLATION

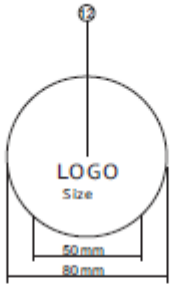
This lighting can be placed on a horizontal surface such as a stage or clamped to a truss or similar rigging structure in any orientation using a rigging clamp.

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.

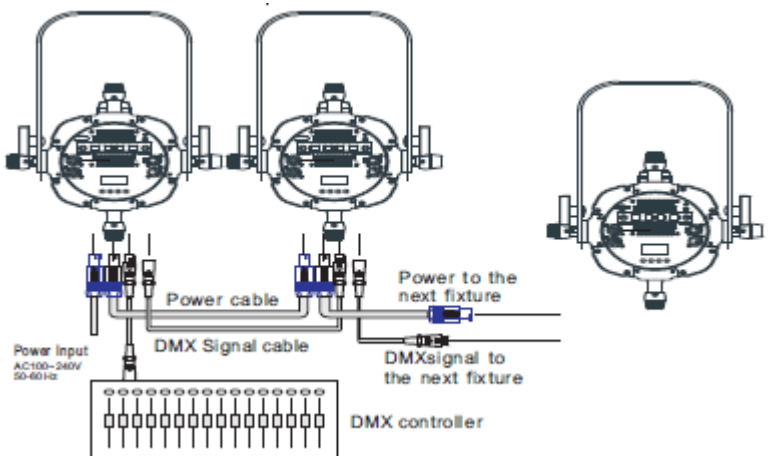
DESCRIPTION OF THE FIXTURE





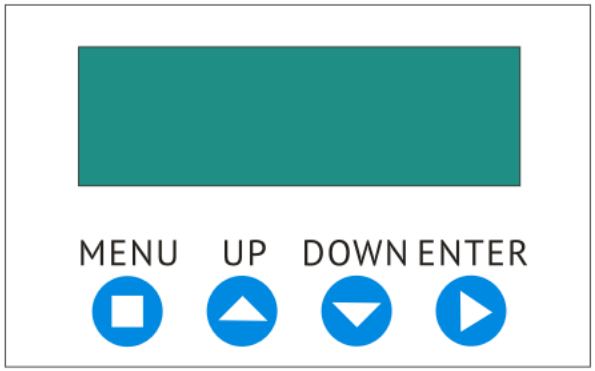
①Fixation screws
②Shutter blade
③LCD Display
④Function selection knob
⑤Power supply via P-Con socket
⑥Power Output via P-Con socket
⑦DMX output
⑧DMX input IN
⑨Mounting bracket
⑩Insulate handle
⑪Safety eyelet
⑫GOBO size

WIRING DIAGRAM



V CONTROL PANNEL

BUTTON



MENU 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 into the next menu, or escape the current menu and save the selected item or parameter).

MAIN MENU

1. Press **ENTER** to enter the menu selection when the title information is displayed
2. Press **UP** or **DOWN** button to choose the right menu which you need;
3. Press **ENTER** into the menu;
4. Press **UP** and **DOWN** button to set the parameter or setting;
5. Press **ENTER** to save the setting;
6. Press **MENU/SET** button to back.

MENU MAP

LCD SHOW	Function Instruction	Operation of Buttons	Supplementary Instruction
T=xxxC	◆The temperature of LED bulb radiator in real time (Celsius) ◆If there is no this temperature shows, means the temperature sensor failure ◆If the value over 80, please check the wind path is normal or not		
No Signal	Couldn't receive the DMX 512 signal		
RX DMX	**Received the DMX 512 signal**		
Address	Address setting	Press **UP**, **DOWN** button to set the address you need, then press ENTER to save.	
Mode	Working mode option Mode = 01 Channel DMX Mode = 02 Channel DMX Mode = Alone scene ↓	Press **UP**, **DOWN** button to choose the menu you need, then press **ENTER** to save.	

Set auto mode Dimmer, dimmer=0-255	Dimmer 1 = 000	
Set alone scene Strobe, Strobe=0-255	Strobe = 000	

SETTING DMX 512 MODE

1. Press **ENTER** when the display show the title information;
2. Press **UP/DOWN** to choose the Mode menu, then press ENTER into;
3. Press **UP/DOWN** to choose 01 Channel DMX or 01 Chanel DMX menu, then press **ENTER** to save;
4. Press **MENU/SET** back the title mode(the second line will shows 01CH or 01CH Address=001), the setting is ok.

SETTING POWER ON, LIGHT ON

1. Press **ENTER** when the display show the title information;
2. Press **UP/DOWN** to choose the Mode menu, then press **ENTER** into;
3. Press **UP/DOWN** to choose Alone scene menu, then press to save;
4. Press **UP/DOWN** to choose Set auto mode Color Temperature menu, then press **ENTER** into the option of color temperature;
5. Press **UP/DOWN** to choose Set auto mode Dimmer menu, then press **ENTER** into the adjust function of the LED;
6. Press **UP/DOWN** to adjust the brightness (=000 light off, =255 Max brightness), after the setting, press **ENTER** to save;
7. Press twice **MENU/SET** button to back the title mode(the second line will shows Master Auto), the setting is ok.

*The sound active mode based on the light has the sound active mode or not, this is a option function. Please contact sales manager when you need it.

Ⅵ DMX PROTOCOL

1CH Mode

CH	Name	Value	Function
CH1	Dimming	000←→255	linear dimming

Ⅶ TECHNICAL SPECIFICATION

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

·Power consumption: 250W

·LED lifespan: 50,000hours

·Beam angle: Beam angle 17° ~50° (Beam angle 26° ,36° available) with hight-efficiency

Color temperature: 3200K/5600K（choosable）

CRI: Ra≥95

Dimming: 0 ~ 100% linear dimming

·Control mode: 1.DMX512 Control/manual mode

·DMX channel: 1CH/2CH（choosable）

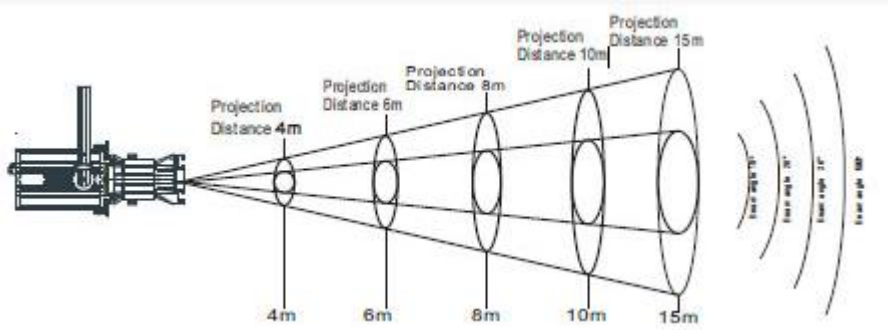
Connection: PowerCON IN & OUT; 3- Pin DMX In& Out(5 - Pin DMX available)

·Housing material: aluminum alloy

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

Weight: 10.5Kg

Ⅷ LUX CHART



Ⅸ APPENDIX

Problem and solution

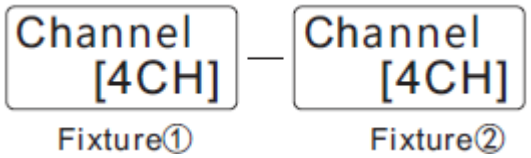
Problem	Reason	Resolution
Device not work	No power	AC100-240V, 50/60Hz Check the power connection, and make sure device connect the mains in well condition. Check if the fuse is good.
LED Bulb is off	LED bulb damaged	Replacing LED bulb
	LED drive board damaged	Replacing LED drive board
	Temperature switch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

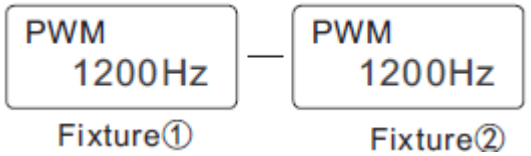
as show below ①②, factory setting [4CH]



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!