VG-LVF20A 20W Mini LED Profile Spot Light User Manual

20W Mini LED Profile Spot Light

VG-LVF20A(3200K)



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-LVF20A 20W Mini 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 mini 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. This is a professional LED Fixed Lens Profile Spot Light. It uses high CRI and brightness 20W 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.

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 20W led profile spot light. You will see you have acquired a powerful and versatile device.

Unpack your 20W led profile spot

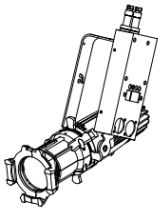
Delivery includes

20W LED Profile Spot Light 1pc

DMX cable 1pc

Power cable 1pc

User Manual 1pc







Ⅱ DESCRIPTION OF THE DEVICE

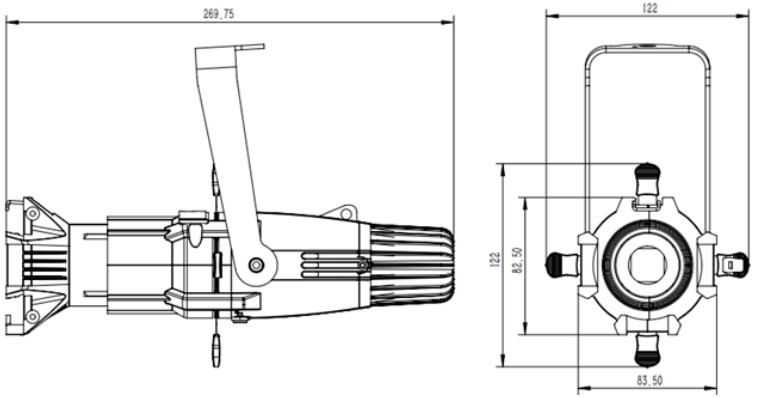
1. Profile

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

2. Overview







All dimensions are in millimeters

3. Specification

Input Voltage:AC100-240V 50/60Hz

Dimensions: 269.75*122*122mm

Packing size: 340*160*145mm (1pc/carton)

540*370*320mm (6pc/carton)

Net Weight: 2.0kg

Gross Weight: 2.5kg

4. Features

• 1*20W COB LED (Warm white)

• 50,000 hours life span and low power consumption

• Color Rendering Index(CRI): Ra≥90

• Optimized high definition optical system for improved photometric performance and field uniformity

• Projector-quality, high contrast aspheric lens

• Glass reflector that removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light

• Power Consumption: 20W

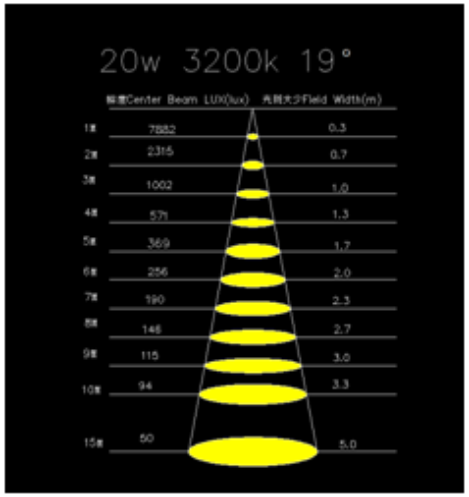
• Housing made by rugged, die-casting aluminum

• Flat and even spot image

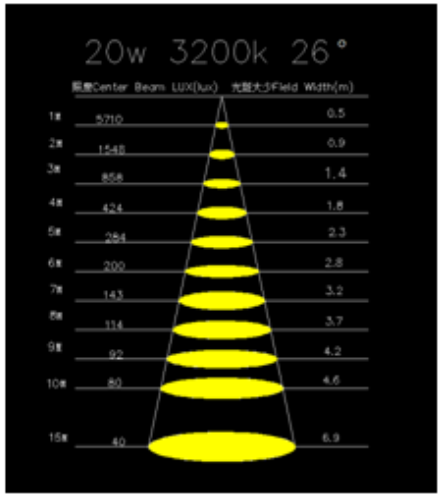
- Smooth manual focus system
- Beam edge continually adjustable hard-to-soft
- Thermally insulated rear handle
- Thermally insulated knobs and single aluminum handle for installing
- Metal gobo slot as optional
- Color frame as optional
- 4 Metal spot cutting slots
- 0-100% Smooth and precise linear dimmer
- 25T/sec high speed shutter/strobe effect with variable speed
- 1/3 DMX channels USITT DMX-512
- DMX512, master-slave, and sound control or auto operation
- 4-Button digital display
- 3-Pin XLR connectors IN/OUT
- Fanless cooling system
- -30~40°C Max ambient temperature
- IP20 protection rating

5. Photographic chart

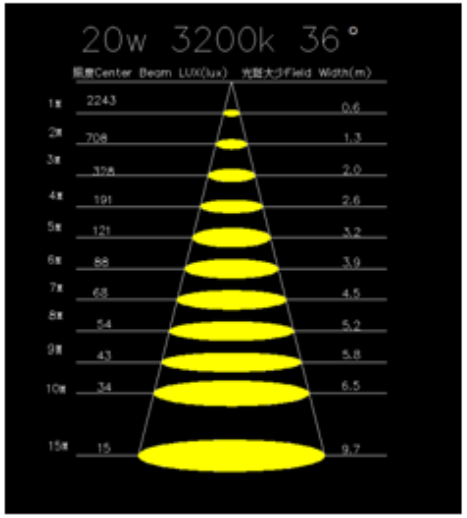
19 degree



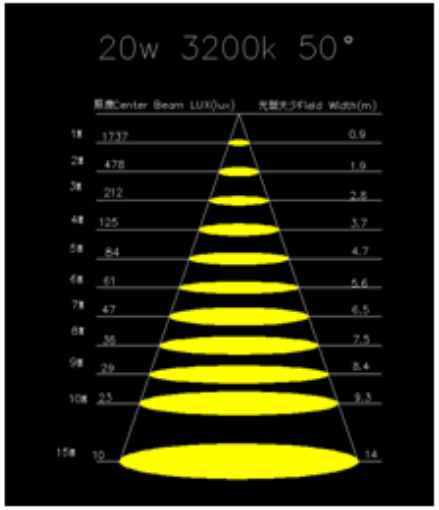
26 degree



36 degree



50 degree



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
- Unqulified person cannot open the housing cover and operate the device, or the dealer will not accept liability for any result defects or problems.
- 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 is 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.

- During move and installation. make sure the device not crashed with metal parts and other materials
- Always disconnect from the mains, when the device is on installation and dismantled
- 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 the operation the housing becomes very hot! Do not operate the device for 15 minutes after switching off.
- The maximum ambient temperature Ta-45℃ must never be exceeded. The maximum housing temperature Tb-80℃ must never be exceeded
- For indoors use
- Replace any visible cracked protective shield, filter and lens
- The protective shield, filters and lens will require weekly cleaning as smoke "fluid tends to building up to residues, reducing the light" Can put very quickly.

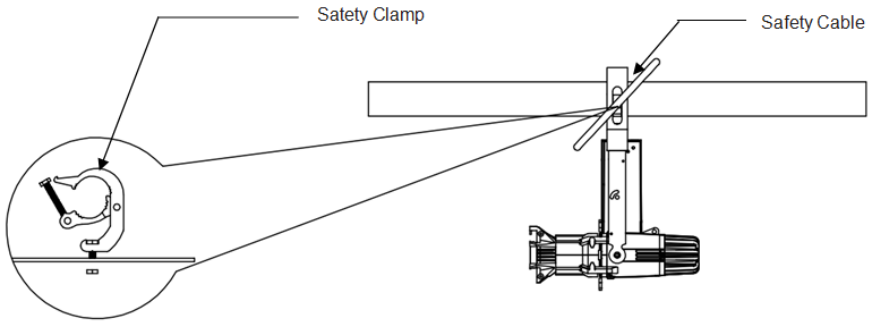
Ⅲ INSTALLATION

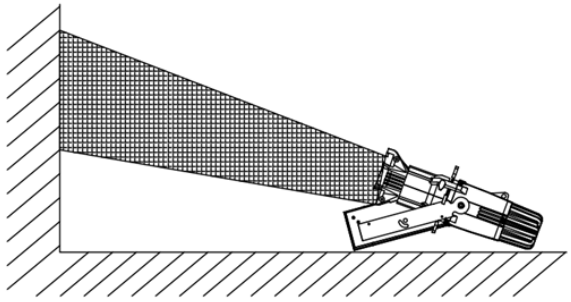
1. Installation

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

- When rigging the devices on the truss and the head face to the floor. Insert the quick-lock fasteners of the first mounting holder into the respective holes on 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 same time.
- Please use qualified safety-rope, which can hold at least 10times the weight of the fixture. You must only use only safety-ropes with quick links with screw cap.

  Pull the safety-rope through the hole on 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

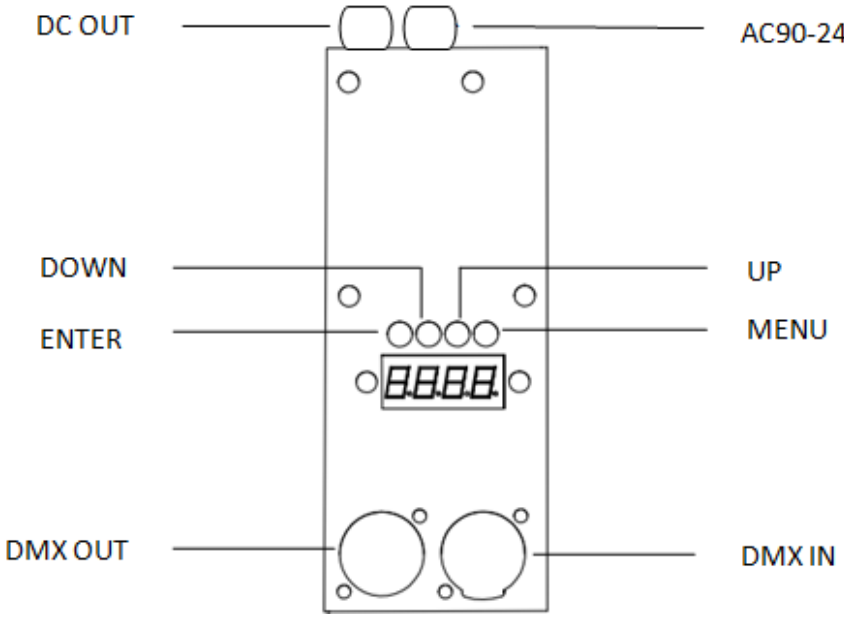


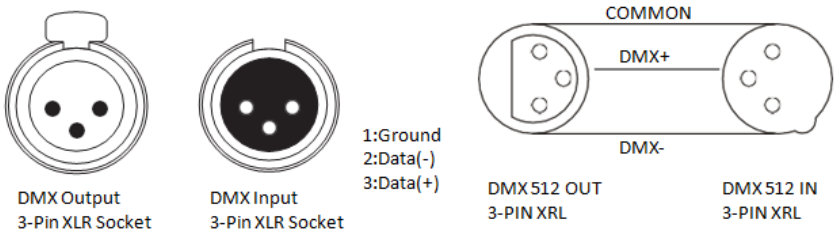


Floor Projection

2. Dmx512 Connection

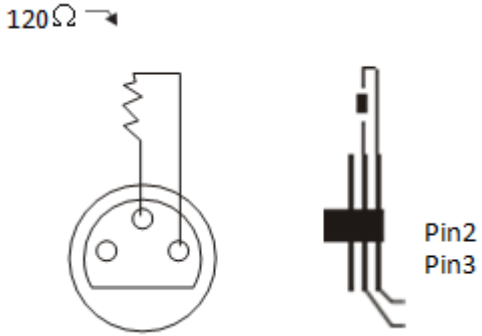
- Please use xlr-xlr wires connect the dmx out put of the controller with the dmx input of the first device, and connect the DMX output of the first device with the dmx input of the second device, always connect one output with the input of the next device until all devices are connected.





For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX

terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



- Please use qualified xlr-xlr dmx cables

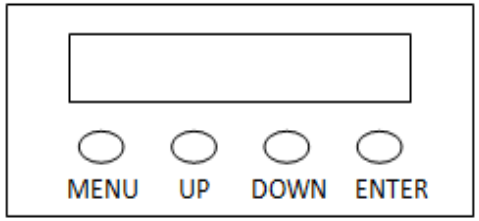
3. Connection with mains

- 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 20w, input power supply ac100v-240v, 50/60HZ.

Ⅳ OPERATION

1. Description of the keys

- **MENU.**
- **UP.**
- **DOWN.**
- **ENTER.**



2. Keys

- **Main key**

【MENU】 Main menu or back the last menu

【UP】 Choosing data value

【DOWN】 Choosing data value

【ENTER】 Enter, choose the vice menu or end edit.

- **Combination key**

Combination by 2 or more key. Such as "UP+DOWN" Press UP and DOWN at the same time. Combination key of "UP+DOWN" is different from "UP" or "DOWN", it have its own function.

- **Long press**

Press the button for long time then leave.

3. Main menu

Press MENU key to change the menu:

LED show	English word/function	key operation	description
A001	Advanced DMX Advance DMX controller state	UP/DOWN key to choose the address code (1~512) ENTER key to save	check "channel data"
d001	dMX normal DMX controller state		
SLAv	SLAve equal "d001"		
	Above is the slave mode, attention: **1、Make sure there is only a signal (controller or master light)** **2、The light will be turn off if the signal is cut down. (turn off the controller or master light)**		
StAt	Warm white Change color	(0~255)ENTER to choose the led group UP/DOWN to choose the bright of the led group	
St01	Strobe Strobe	UP/DOWN key to choose the speed (1~50) ENTER to save.	
Soud	Sound Sound model		
	Above is the master state, the light will send the data automatically. (the slave light should set "d001" or "SLAv")		

4. Current adjustment

1). Keyboard current adjustment

Under any main menu item, press and hold the MENU, after about 3 seconds to enter the "keyboard current adjustment" mode, Then can adjust the current . Proceed as follows:

1、 First see the "r030". "R" stands for red, so only red will be lit at this time, and the other colors will turn off automatically. "030" represents the current current value, use the UP button or DOWN button to adjust from 0 to 255. **Note that the slow increase, suitable for this: If the current is too large, will lead to lamp beads burned!**

2、 After adjusting the red, press the "MENU" key to switch to "G030" began to adjust the green, the same time it will only light green while the other colors will automatically shut down ... ... The adjustment of other colors and the like.

3、 Press "ENTER" key to save and automatically return to "A001" menu

2). DMX Current regulation

Through the console (or host) for multiple lights current regulation. The console for example, the following steps:

1、 For reduce the risk of burning lamp. before the completion of step 3, please do not connect the light to the console.

2、 First of all through the "keyboard current adjustment" to adjust the ideal current value in a light and record it.

3、 Set the channels 1, 2, and 3 of the console to recorded the current values (to represent red, green, and blue, for example, then set the channel 2 value to 100 for a green current value of 100). **This step must be completed before starting step 4! Otherwise it may be caused by channel value is too large led lamp burning!**

4、 After confirming that step 3 is no problem, then connect the light to the conso 11 ; and hold the MENU key and ENTER key at the same time in any main menu. After about 3 seconds, enter "DMX current adjustment" mode. The screen will display "CSdA"(Color Scale dMX Adjustment),and which will flicker if the DMX signal is not received

5、 Wait for about 1 second, if "CSdA" is not flicker then it has correctly received the current value passed by the console (also can through lamp brightness to be observed), the adjustment is successful.

4、 Press "ENTER" key to save and automatically return to "A001" menu

6、 In step 5, the channel value of the console can also be changed to adjust again. Since it is the ideal value that has already been adjusted, generally do not need to adjust again. **If you want to adjust, you must be conscious, careful! If the current is too large, will lead to lamp burned!**

5. Set menu

In the "dEMo" menu, long press "ENTER" to set the menu.

Press MENU to change the menu option.

LED show	English Word/function	key operation	Description
LE30	LED waiting time Screen protect time	UP/DOWN choose the waiting time	0 = no screen protect
HPon	High Power Power choose	UP/DOWN choose high power or not	On = 100% off = 33.3%
ddoF	dMX-controller delay controller delay	UP/DOWN choose use the controller delay or not	
SYoF	Synchronization Multi-light synchronization	UP/DOWN choose usemulti-light synchronization or not	
LoAd	LoAd reset	Long press ENTER until it shows "LdEd"(loaded)	
rEtn	rEturn Back to function menu	Press ENTER to save the data and back to main menu.	

6. DMX chart

A001

CHANNEL	DMX VALUE	FUNCTION
CH1	000←→255	Dimmer
CH2	000←→005 006←→255	No function Strobe: 6 is slowest, 255 is fastest
CH3	000←→025 026←→200 251←→255	Turn on "delay by controller" Turn off "delay by controller" Sound mode: the changing of the light depends on the MIC of each light

d001

CHANNEL	DMX VALUE	FUNCTION
CH1	000←→255	Dimmer

V 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 switch is on. 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

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.

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Please keep this manual as a reference.

Thanks again for your business. We truly appreciate it!