VG-LVF220D 200W RGBAL LED Profile Spot light User Manual

200W RGBAL LED Profile Spot Light

VG-LVF220D



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-LVF220D 200W RGBAL 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

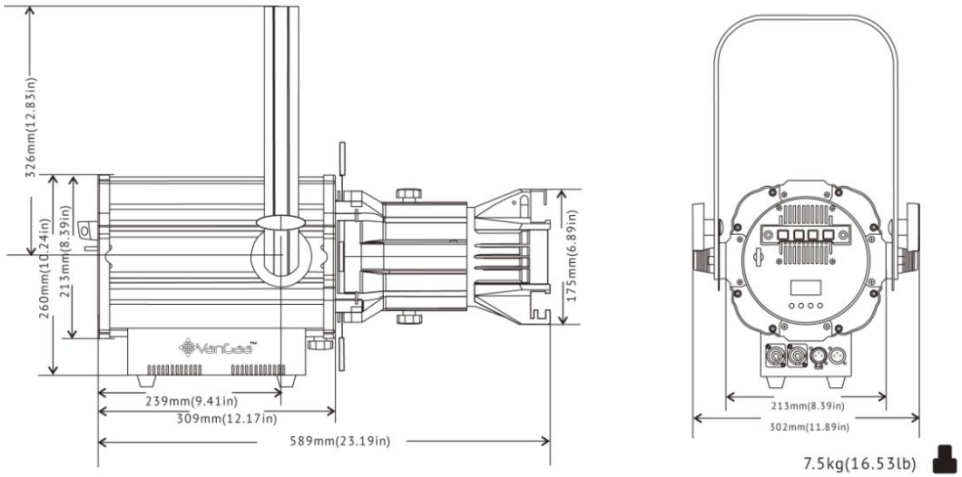
The light's lighting function is controlled by DMX-512 and RDM, very convenient;
Using international standard (1990) DMX single, digital control panel display;
With 12 DMX channel layout, every color can be controlled;
Dimmer range: 0~100%, 0~15% dimmer smoothly;
CRI more than 92, 1800-10000K color temperature adjustable, light effective distance is 3~15 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



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

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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.

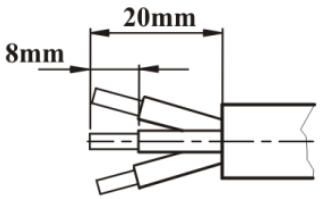
The Maximum surface temperature is 50°C

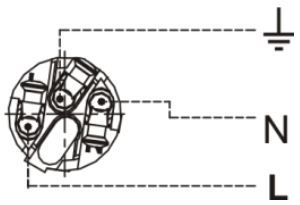
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

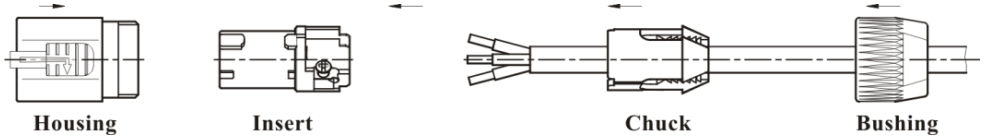
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

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.

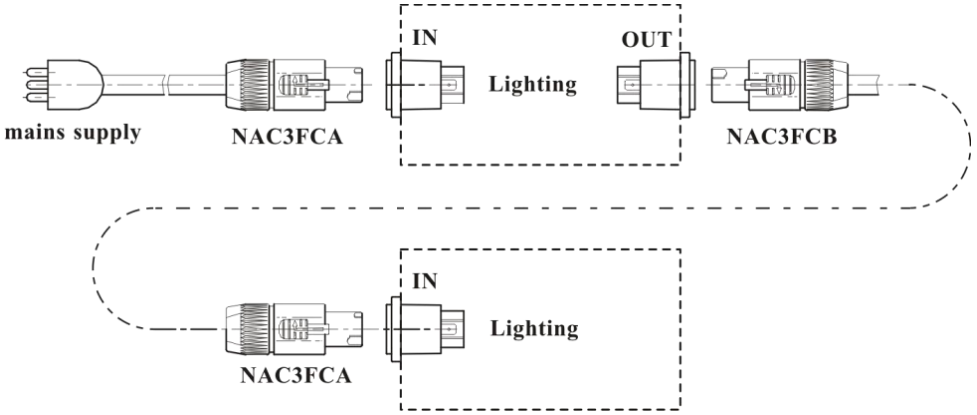
Push insert and chuck into housing (pay attention to the guiding keyway).

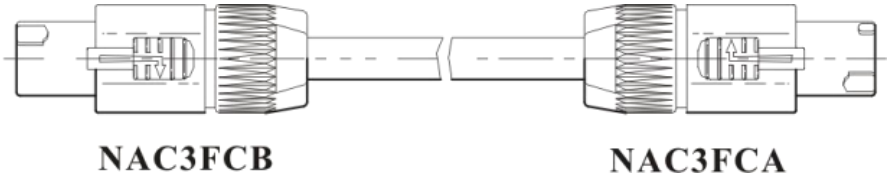
Fasten bushing.

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

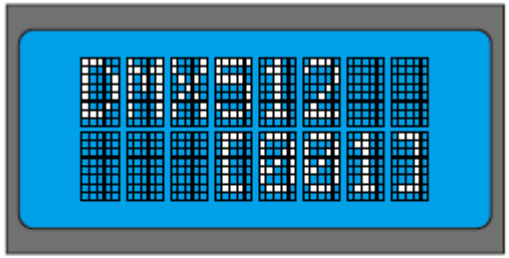
This lighting can be placed on a horizontal surface such as a stage or clamped to a truss or similar rigging structure in any orientation using a rigging clamp.

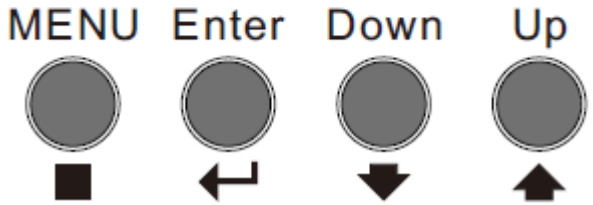
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

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

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).

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).

DOWN Browse the menu item backward or decrease the parameter.

UP Browse the menu item forward or increase the parameter.

MAIN MENU

Press "**MENU**" --->Display first - level menu--->

Press "**Enter**" --->Display second- level menu--->

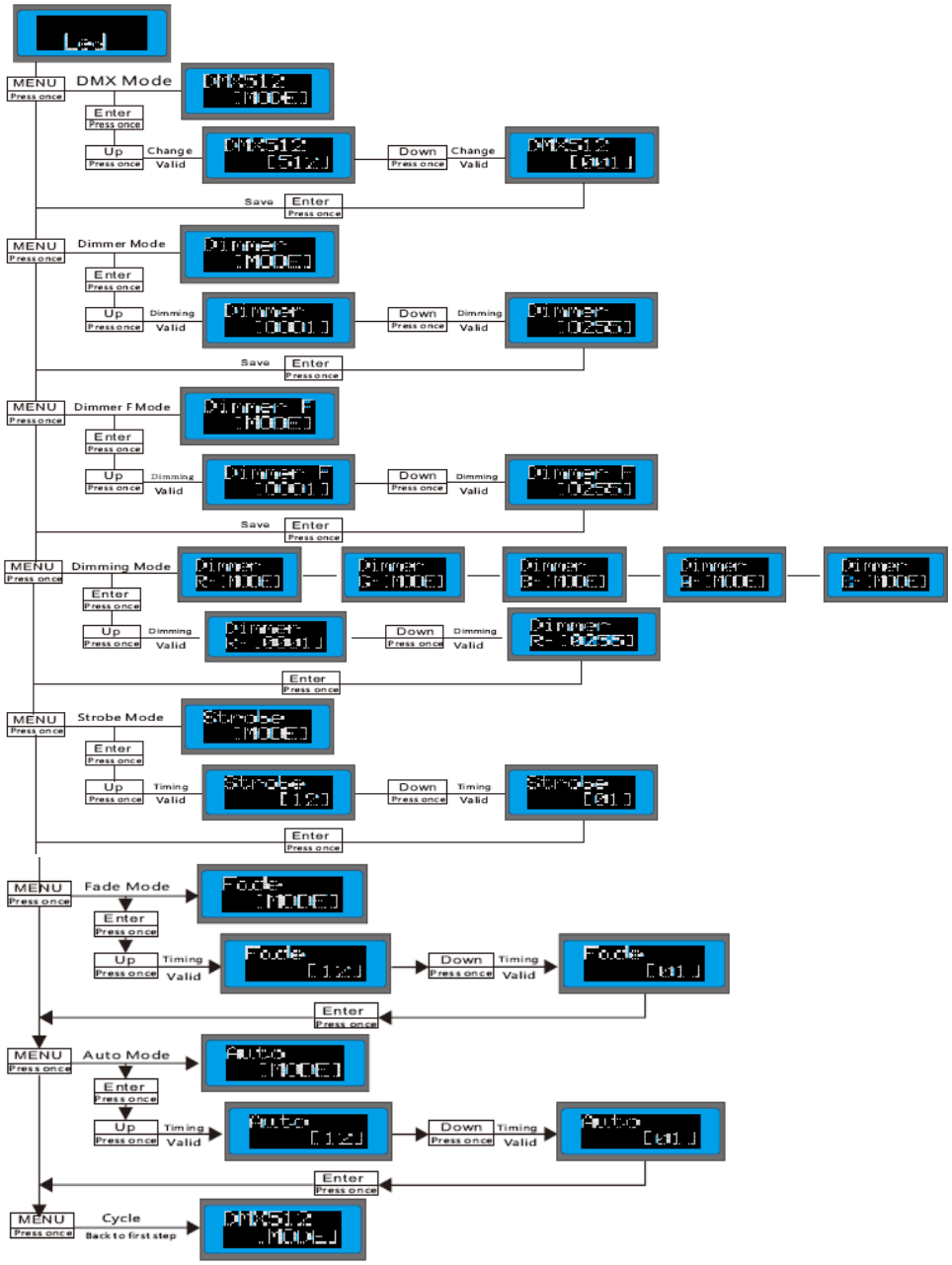
Press "**Down**" & "Up" to adjust relevant function->

Press "**Enter**" and "MENU" to quit current menu

Press "**Enter**" ---> To next first- level menu

MENU MAP

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SETTING DMX 512 MODE



1. Press **MENU** when the display show the DMX 512 mode;

2. Press **ENTER** into this menu, and press **UP/DOWN** to revise the DMX value;





3. Press **ENTER** to save the setting.

SETTING DIMMER MODE



1. Press **ENTER** when the display show the Dimmer mode;

2. Press **ENTER** into this menu, and press UP/DOWN to revise the dimmer value;





You can adjust the brightness from 0-255;

3. Press **ENTER** to save the setting;

SETTING DIMMER FINE MODE



1. Press **ENTER** when the display show the Dimmer F mode;

2. Press **ENTER** into this menu, and press UP/DOWN to revise the dimmer value;





You can adjust the brightness from 0-255;

3. Press **ENTER** to save the setting;

SETTING STROBE MODE



1. Press **ENTER** when the display show the Strobe mode;

2. Press **ENTER** into this menu, and press UP/DOWN to revise the strobe speed value;





You can adjust the strobe speed from 1-12;

3. Press **ENTER** to save the setting;

SETTING FADE MODE



1. Press **ENTER** when the display show the Fade mode;

2. Press **ENTER** into this menu, and press UP/DOWN to revise the fade speed value;





You can adjust the fade speed from 1-12;

3. Press **ENTER** to save the setting;

SETTING AUTO MODE

1. Press **ENTER** when the display show the Auto mode; 

2. Press **ENTER** into this menu, and press UP/DOWN to revise the auto speed value;





You can adjust the auto speed from 1-12;

3. Press **ENTER** to save the setting;

SETTING STANDBY AND MASTER/SLAVE MODE

1. When the light receive the DMX signal, the display shows 

or 

(the dmx value of the light)

2. When the light receive the master light signal, the display shows 

3. When the display shows 

, means the light in standby mode, if the display shows other menu, you can long press the MENU button more than 5 seconds, the display will back to standby mode interface.

Ⅵ DMX PROTOCOL

12CH MODE

CH	Name	Value	Function
CH1	Red	000←→255	levels linear dimming
CH2	Green	000←→255	Levels linear dimming
CH3	Blue	000←→255	Levels linear dimming
CH4	Amber	000←→255	Levels linear dimming
CH5	Lemon	000←→255	Levels linear dimming
CH6	Color	000←→255	Levels RGBAL color mixing
CH7	CCT	000←→255	Levels linear dimming，CCT 1800K-10000K
CH8	Function	000←→009 010←→127 128←→134 135←→255	Levels without function Levels fade function Levels without function Levels auto function
CH9	Strobe	000←→009 010←→255	Levels without function Levels strobe function
CH10	Dim 4	000←→063 064←→127 128←→191 192←→255	First-level dimming delay function Second-level dimming delay function Third-level dimming delay function Fourth-level dimming delay function
CH11	Dimming	000←→255	Levels master dimming
CH12	Dim fine	000←→255	Levels dimmer fine

Ⅶ TECHNICAL SPECIFICATION

·Input power: AC100~240V, 50/60Hz

·Power consumption: 250W

·Light sources: 200W brand RGBAL 5in1 COB LED Lamp

·LED lifespan: 50,000hours

·Dimmer: 0~100%, 0-15% smoothly dimmer

·Beam angle: 14/19/26/36 degree

·Color temperature: 1800K-10000K

·Control mode: DMX-512; RDM; Dim4,

·DMX channel: 12CH

·Focus: manual focus adjustable

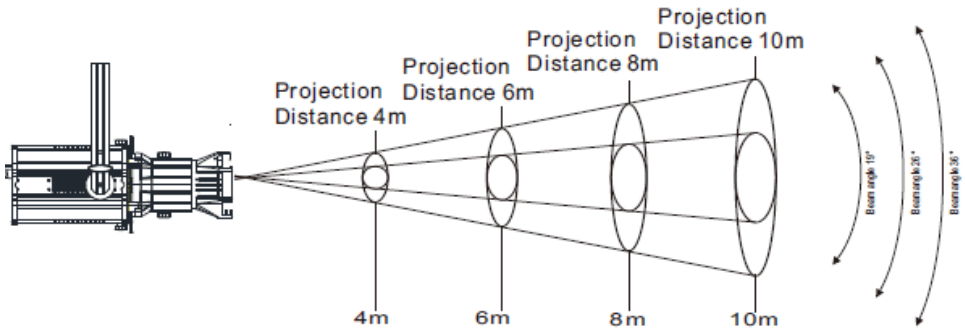
·Light visor: optional

·IP rating: IP20

·Housing material: aluminum alloy

·Working temperature: -25~40centigrad degree

Ⅷ LUX CHART



Illumination center/Lux	R	600	270	148	104	Beam angle 19°
	G	820	365	207	148	
	B	260	118	70	50	
	A	2360	1060	580	417	
	L	1280	575	323	230	
	max	2960	1350	752	528	
Beam Diameter/cm		124	180	248	315	

Illumination center/Lux	R	325	140	80	58	Beam angle 26°
	G	430	193	109	80	
	B	135	64	37	28	
	A	1250	545	310	217	
	L	670	300	170	122	
	max	1570	700	393	282	
Beam Diameter/cm		185	277	370	462	

Illumination center/Lux	R	183	88	48	37	Beam angle 36°
	G	250	116	67	50	
	B	80	39	23	19	
	A	730	330	185	134	
	L	400	118	103	76	
	max	920	420	233	171	
Beam Diameter/cm		220	380	430	620	

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

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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!