VG-DL450 400W White LED Spot Light User Manual

450W White LED Spot Light User Manual

VG-DL450



CE RoHS

User Manual

📖Please read this user manual before using this product!

Keep it for further reference!

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VG-DL450 400W White LED 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 Colorful LED Soft Video Panel 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 Flat Light Technology, using high brightness SMD 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

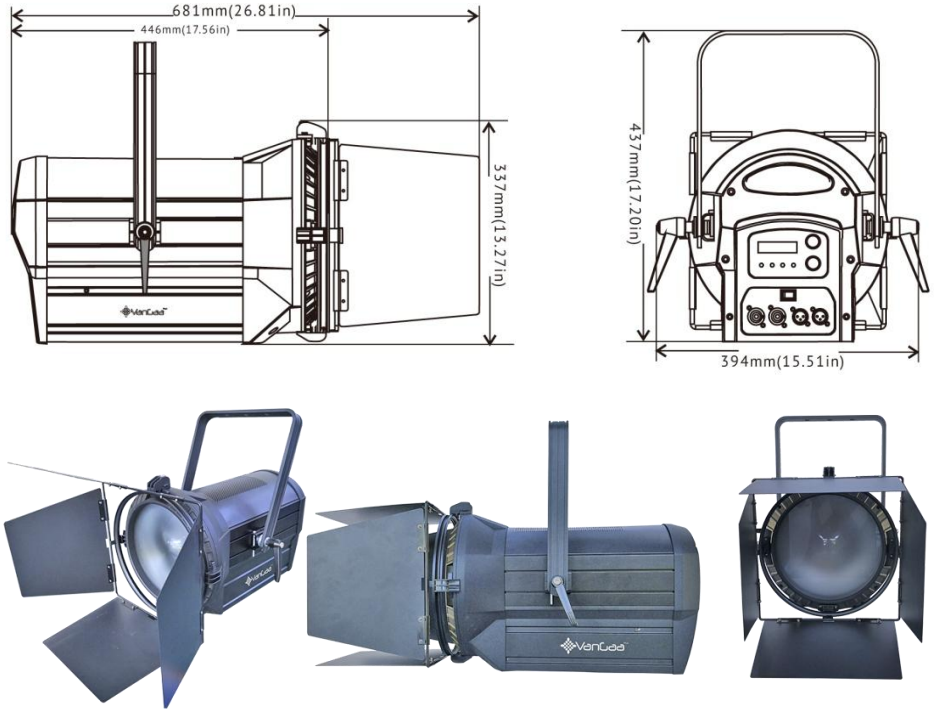
The light's lighting function is controlled by DMX-512, very convenient;
Using international standard (1990) DMX single, digital control panel display;
With 1CH,DMX channel control modes;
Dimmer range: 0~100%, 0~15% dimmer smoothly;
CRI more than 95, 5600K color temperature optional, light effective distance is 3~15 meters;
Cast aluminum radiator, equips copper tube radiator, no need 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

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.

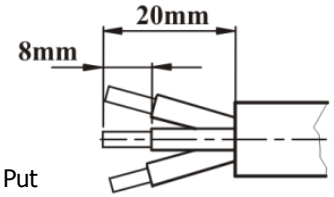
The Maximum surface temperature is 50°C

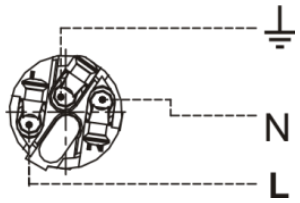
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

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



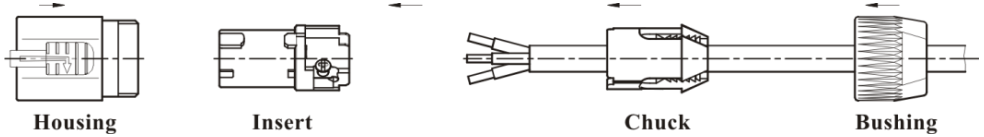


Put bushing and chuck onto the cable.

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).

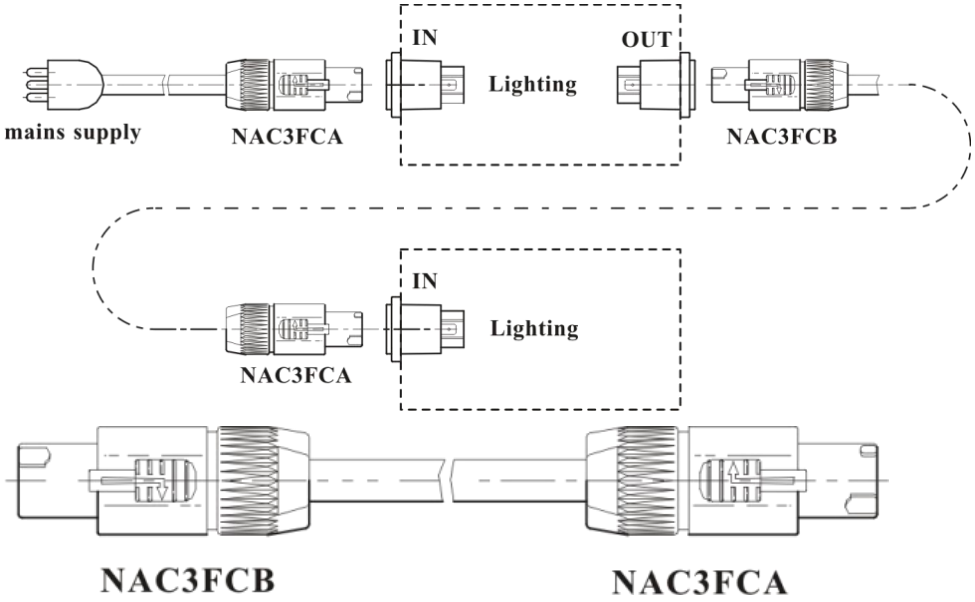


Fasten bushing.

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 AND KNOBS

Knobs Control



Mode Manual

Rotating the "Mode" knob to setting the main menu, press it can enter;

Rotating the "Mode" knob to setting the sub menu, press it can kept.

After the setting, you can rotating the Manual knob for CCT and linear dimmer.

menu Map

Mode:Brightness
Brightness: 000%
.3200K+5600 =*%
Addr=001 T=***℃

Mode:ColorTemp
Brightness: 000%
.Brightness = *%
.ColorTemp =**K
Addr=001 T=***℃

Mode:Direct
Brightness: 000%
.Brightness =*%
.SlowColorTemp = *
.HighColorTemp = *
Addr=001 T=***℃

Main	
01.Address	= *** ~ 512
02.Reset	= OFF ON
03.Mode	=Brightness ColorTemp Direct
04.Language	=English Chinese
05.Option:Master	= OFF ON
06.Option:Strobe CH	= OFF ON
07.Option:Zoom CH	= OFF ON
08.Dimmer Frequency	=1.8KHz 5.4KHz 12KHz 20KHz
09.Dimmer Speed	= OFF 1 2 3 4
10.Display Invert	= OFF ON
11.Display DelayOFF	= OFF ON
12.Version:V*.*** : V*.***	

Ⅵ DMX PROTOCOL

Brightness-CH

H2CH

DMX CH	DMX Value	Function
CH1	000←→255	**Direct-CH** SlowColorTemp
CH2	000←→255	**Direct-CH** Zoom

Ⅶ COMMON INSTRUCTION

The light uses international 3 pins DMX signal cannon for DMX in and DMX out;

The light uses digital display to show the parameter. If there is no DMX in, the display will shows the information which you can check from the menu map.

In fact, the light has three DMX channels modes, and different bit. please refer the DMX channel chart.

This light uses intelligent full aluminium shell for the heat dissipation, through the electronic temperature detection ensure the stability of the circuit at any time;

This light is only for indoor use, when you install it by hanging, please use the safety cable to ensure the safety.

If you have any questions, please contact with our sales manager.

ⅧTECHNICAL SPECIFICATION

Light Sources

·LED: 450W-COB high CRI and high brightness LED bead chips

·Lifespan: 50,000hours

·Color: from warm white to cold white

Optics

·Beam angle: 15~60 degree

·Frequency: 24K flick free light source drive system

·Dimmer: 0~100% linear dimmer

Light Output

·CRI: Ra≥95

·Special CRI: R9≥90, R15≥90

·Color temperature: 5600k adjustable

Control

·DMX channel: 2CH

·Control mode: DMX-512, RDM, Demo mode, Manual, Dimmer rotary knob(wireless remote control option)

·Control panel: 2.4in LCD display + 4 buttons

Power Supply

·Related voltage: AC90V-240V, 50/60Hz

·Related power:keep output 400W

Construction

·Body dimension: D720*W390*H420mm

·Net weight: 12kg

·Shell color: black

·Housing material: aluminum alloy

Working Environment

·Working temperature: -25-40℃

·Cooling: aluminum radiator, and a mute fan

Spare Parts

·Cable: 1set DMX in and DMX out signal cable, and 1set Power in and Power out power cable with plug [standard configuration]

·Light visor: 1pc light visor [optional configuration]

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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

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.