VG-PL60D 60RGBW 4IN1 User Manual

Mini Fresnel 60MZ-RGBW

VG-PL60D



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-PL60D 60RGBW 4IN1 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 Studio Focalize 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 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

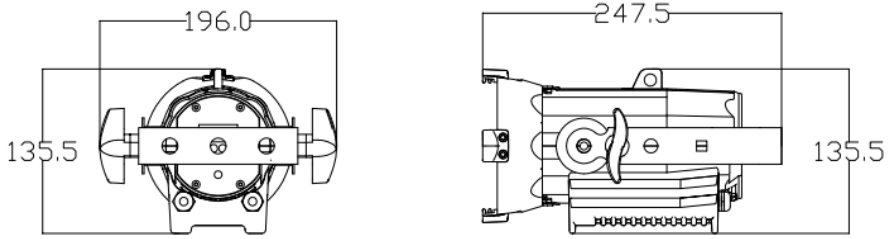
GB7000.217-2008/IEC60598-2-17:1984+A2:1990

Ⅰ PRODUCT MAIN FEATURES

* 1*60W COB LED (RGBW 4in1)
*50,000 hours life span and low power consumption
*High efficiency fresnel lens
*Flat and even spot image with soft edge
*Manual zoom system from 35°-50°
*Housing made by rugged, die cast aluminum alloy
*Thermally insulated rear handle
*Thermally insulated knobs and single aluminum handle for installing

*Barn door included
*Color frame as optional
*0-100% Smooth and precise linear dimmer
*25T/sec high speed shutter/strobe effect with variable speed
*4/8 DMX channels USITT DMX-512
*DMX512, master-slave, or auto operation
*4-Button digital display
*3-Pin XLR connectors IN/OUT
*Low noise fan integrated with copper liquid cooling system
*-30-40℃ Max ambient temperature
*IP20 protection rating

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

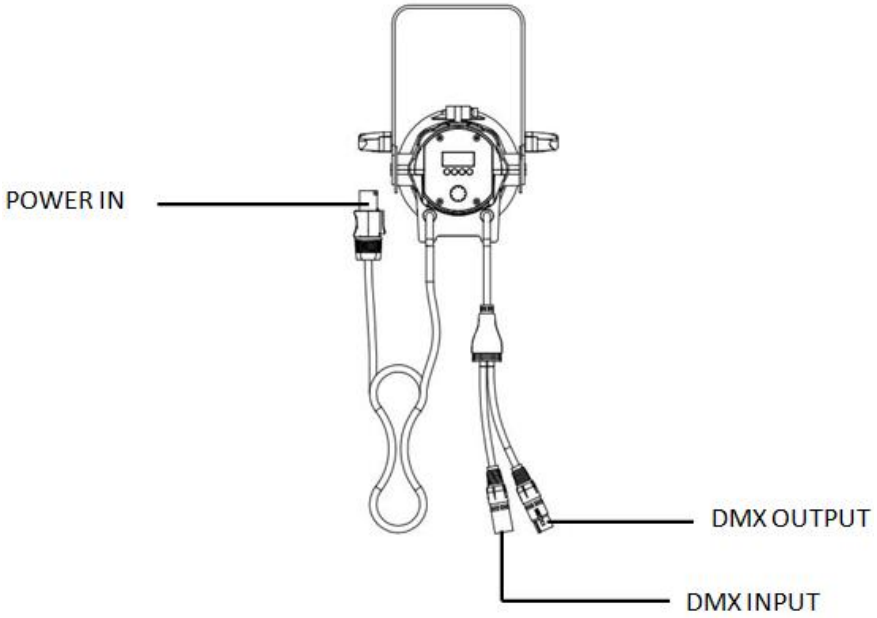
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

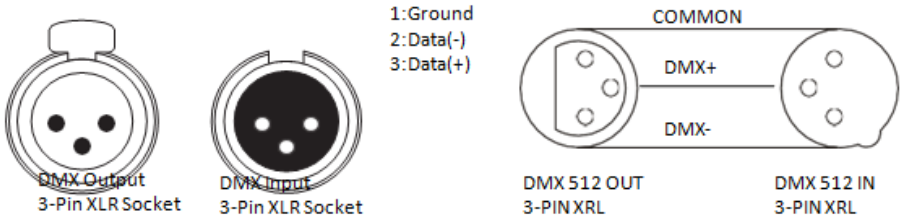
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

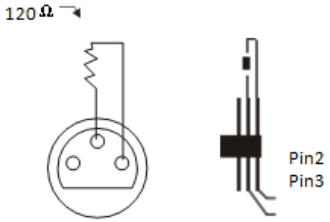
Ⅳ POWER CONNECTION

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple 03 Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator







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.

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.

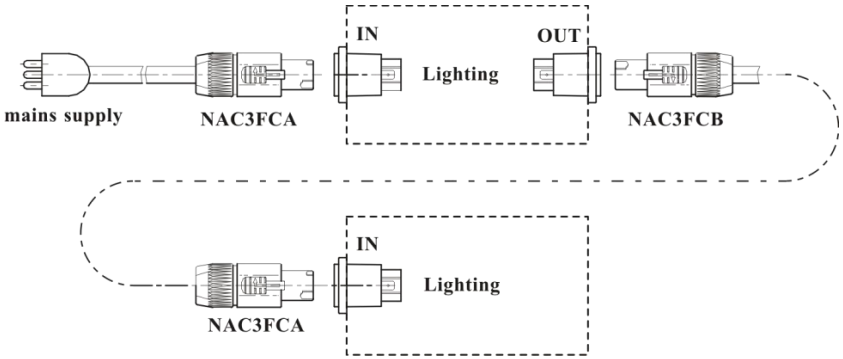
Push insert and chuck into housing (pay attention to the guiding keyway).

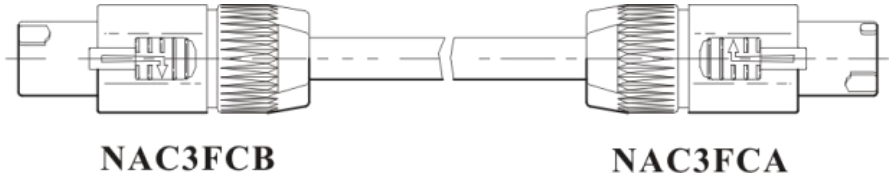
Fasten bushing.

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.

INSTALLATIONS

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

From a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Please ensure that the led mini fresnel spotlight is hung using the appropriate "C" clamp or half cheeseboro. A safety chain or cable should also be used as a secondary point of holding the fixture in case the clamp comes loose. Never hang the fixture without a safety chain or cable.

There is an eye-bolt on the back of the fixture to which the safety chain or cable can

threaded through and then hung from the secondary point. Make sure the Gel frame (Gel holder) is clipped into position correctly and cannot come loose.

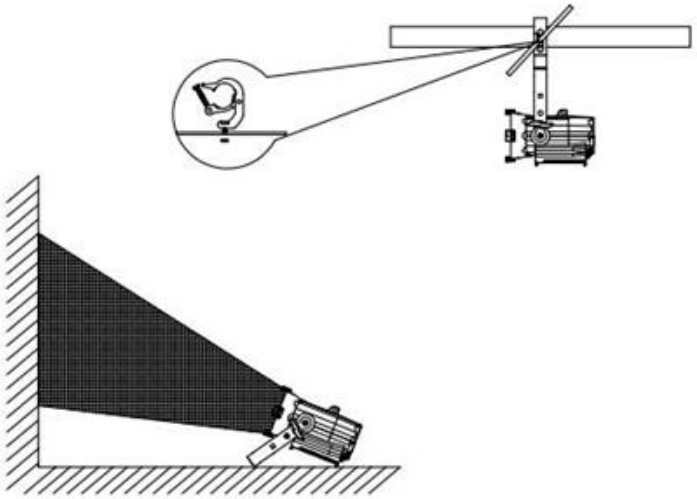
If you are not qualified or have any doubts about hanging the led mini fresnel spotlight then do NOT hang it.

Do not clamp the safety cable to the U bracket or clamp. That is not a secondary safety point.

A secondary safety point is any point that will adequately hold the led mini fresnel spotlight if the "C" clamp or half cheesboro fails.

Then the safety cable would be the backup and stop the fixture from falling to the ground.

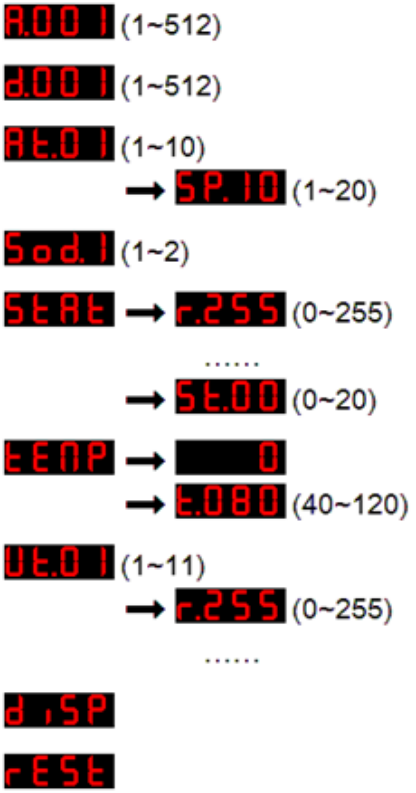
So do NOT fix the safety cable to the same place that the "C"clamp is attached



Floor Projection

V CONTROL PANNEL

KEY-OPERATION



Menu:

The first list is the main menu (press MENU to exchange), the second list is submenu (press ENTER to get in or exchange)

If the menu include the decimal point, that's the data, and can be set by the Key of Up/Donw.

Key operation:

Key of "MENU" (Press it and can save the data)

If it's the main menu, it will exchange to next main menu.

If it's the submenu, it will back to main menu.

Key of "ENTER" (Press it and can save the data)

If it's the main menu and it have submenu, it will enter the submenu.

If it's the submenu, it will exchange to the next submenu.

Key of "UP/DOWN"

It's no function if the menu not include the decimal point.

If the menu include the decimal point, it can set the data after the decimal point. And it need press "ENTER" to save the data.

MENU

Menu		State	Operation		Mark
Main menu	submenu				
A.001	No submenu	A: advance	UP/DOWN	Adjust ID address	disconnect the controller and connect the master light, then it will follow the master light. It will flicker if no signal.
		External control mode (standard channel model)	ENTER	Save ID address	
d.001	No submenu	d: dmx	UP/DOWN	Adjust ID address	

		External control mode (basic channel model)	ENTER	Save ID address	
AE.01	One submenu	At: auto	UP/DOWN	Choose the program	
		Auto run model	ENTER	Enter submenu	
SP.10		SP: speed	UP/DOWN	Adjust speed	
		Choose the speed of auto run	ENTER	Save data	
Sod.1	No menu	Sod: sound	UP/DOWN	Change to sound control model	
		Sound control model	ENTER	Save data	
StAt	Have menus	StAt: static	ENTER	Enter submenu	
		static model			
r.255		r、G、b、W.....	UP/DOWN	Change the color data	
.....		Set color	ENTER	Save data and change to submenu	
St.00		St: strobe	UP/DOWN	Change the strobe data	
		Strobe and its speed	ENTER	Save and change	
tEMP	2 submenus	tEMp: temperature	ENTER	Enter submenu	
		temperature control function			
0		current temperature	ENTER	Change to submenu	
t.080		t: top	UP/DOWN	Change the temperature protection data	
		Set the temperature protect	ENTER	Save and exchange	
UE.01	Have menus	Wt: white	UP/DOWN		
		Set the color temperature	ENTER	Enter submenu	
r.255		r、G、b、W.....	UP/DOWN	Change the color data	
.....		Adjust color temperature data	ENTER	Save data change to submenu	
d.SP	No menu	diSP: display	ENTER	reverse display	
		set to reverse display			
rESt	No menu	reSt: reset	ENTER	enter the interface of key	the password is "UP DONW UP DOWN"
		return Initial State			

Ⅵ DMX PROTOCOL

8CH Mode

CH	Function	Value	Mark
CH1	Dimmer	000←→255	
CH2	color 1 (red)	000←→255	
CH3	color 2 (green)	000←→255	
CH4	color 3 (blue)	000←→255	
CH5	color 4 (white)	000←→255	
CH6	No effect Multi color change Color temperature 1 (3200K) Color temperature 2~10 (each 5 data is a color temperature level) Color temperature 11 (10000K)	000←→030 031←→200 201←→205 ..... 250←→255	Can be set in the menu of "WT.xx"
CH7	No strobe Speed of strobe (255 is the fastest)	000←→010 011←→255	This channel control the speed when running the build-in program
CH8	Speed of dimmer 4 (the slowest and softest) Speed of dimmer 3 Speed of dimmer 2 Speed of dimmer 1 Speed of dimmer off (fastest and no any delay) Inner program 1 Each 10 data is a program	000←→020 021←→040 041←→060 061←→080 081←→099 100←→109	

	Inner program 10 Change color by sound control Strobe by sound control	190←→199 200←→240 241←→255	

4CH Mode

CH	Function	Value	Mark
CH1	Color 1 (red)	000←→255	
CH2	Color 2 (green)	000←→255	
CH3	Color 3 (blue)	000←→255	
CH4	Color (white)	000←→255	

Ⅶ COMMON INSTRUCTION

• The MINI FRESNEL 60MZ-RGBW is an LED studio light for on-site decoration purpose.

• Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.

• This light should be keep away from strong shaking during any transportation or movement.

• Don't pull up the light by only the head, or it might cause damages to the mechanical parts.

• Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.

• Make sure the installation place is in good safety condition before installing the fixture.

• Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.

• Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.

• Make sure the fixture is operated by qualified personnel who knows the fixture before using.

• Keep the original packages if any second shipment is needed.

• Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.

• It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

Ⅷ TECHNICAL SPECIFICATION

*Input Voltage:AC100-240V 50/60Hz
*Max. Power: 60W
*Dimensions: 247.5(D)*196(W)*135.5(H)mm
*Packing Size: 325(D)*245(W)*185(H)mm
*Net Weight: 2.5kg
*Gross Weight: 3.5kg

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.

Innovation, Quality, Performance, Achieving Users' Value!