VG-LVF400Z-G-D 400W RGBAL LED Profile Spot light User Manual

Motorize Zoom
400W RGBAL LED Profile Spot Light

VG-LVF400Z-G-D



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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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

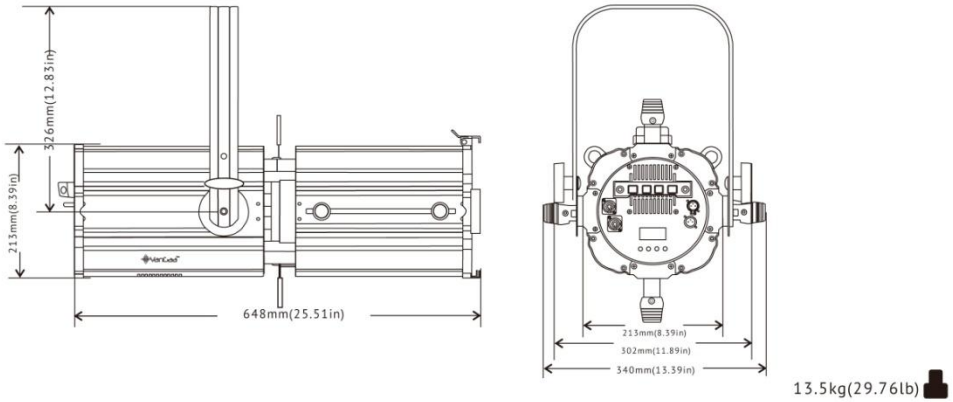
The light's lighting function is controlled by DMX-512 and RDM, very convenient;
Using international standard (1990) DMX single, digital control panel display;
With 12 DMX channel layout, every color can be controlled;
Dimmer range: 0~100%, 0~15% dimmer smoothly;
CRI more than 92, 1800-10000K color temperature adjustable, light effective distance is 3~50 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

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.

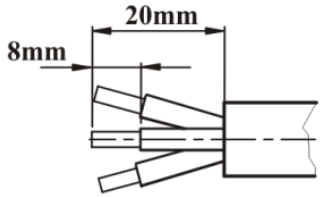
The Maximum surface temperature is 50°C

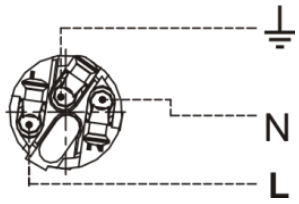
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

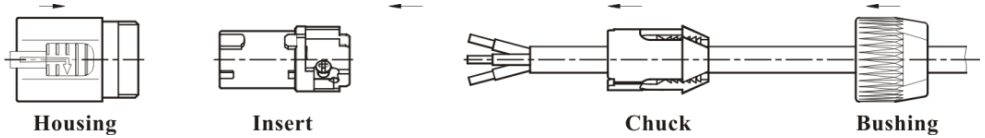
Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

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.

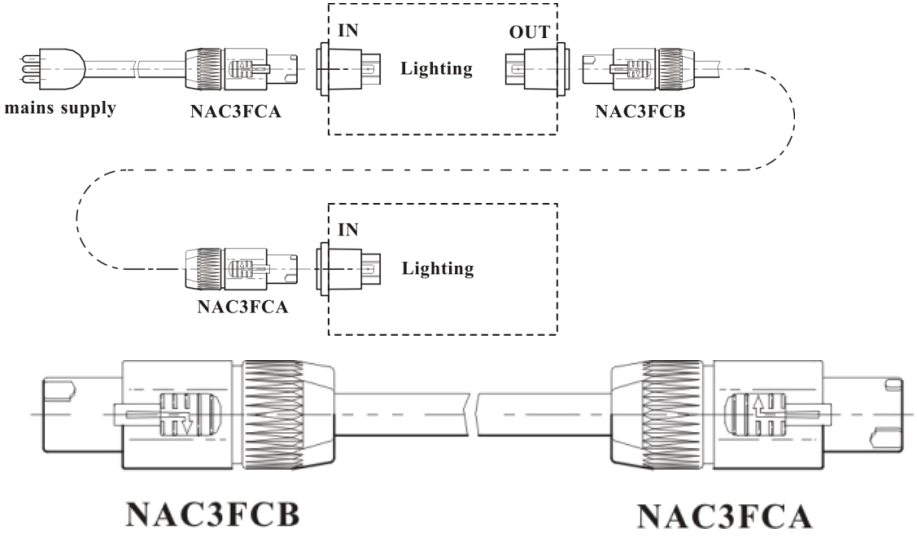
Push insert and chuck into housing (pay attention to the guiding keyway).

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

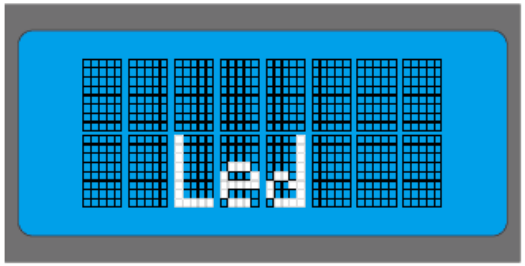
This lighting can be placed on a horizontal surface such as a stage or clamped to a truss or similar rigging structure in any orientation using a rigging clamp.

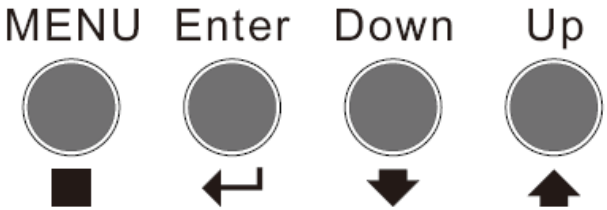
When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

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.

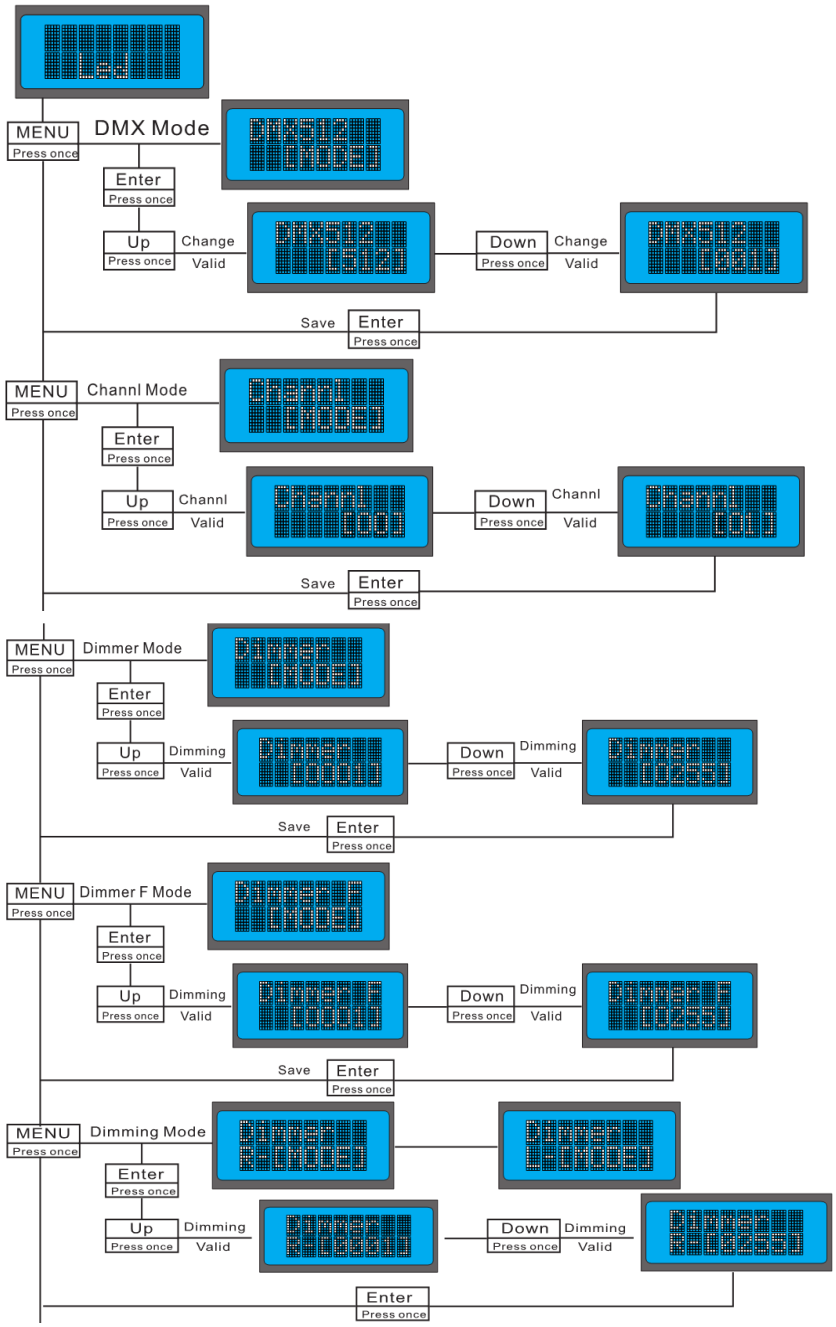
UP Browse the menu item forward or increase the parameter.

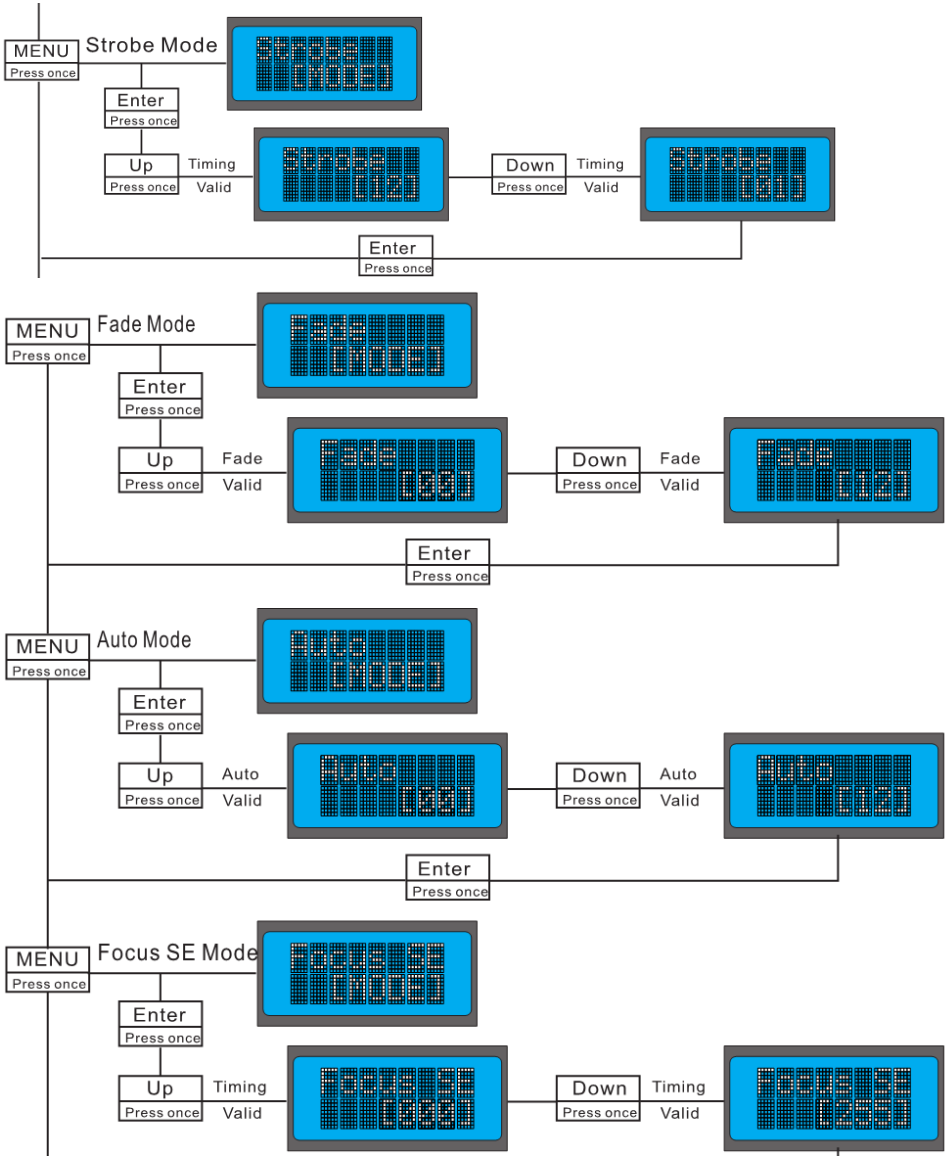
MAIN MENU

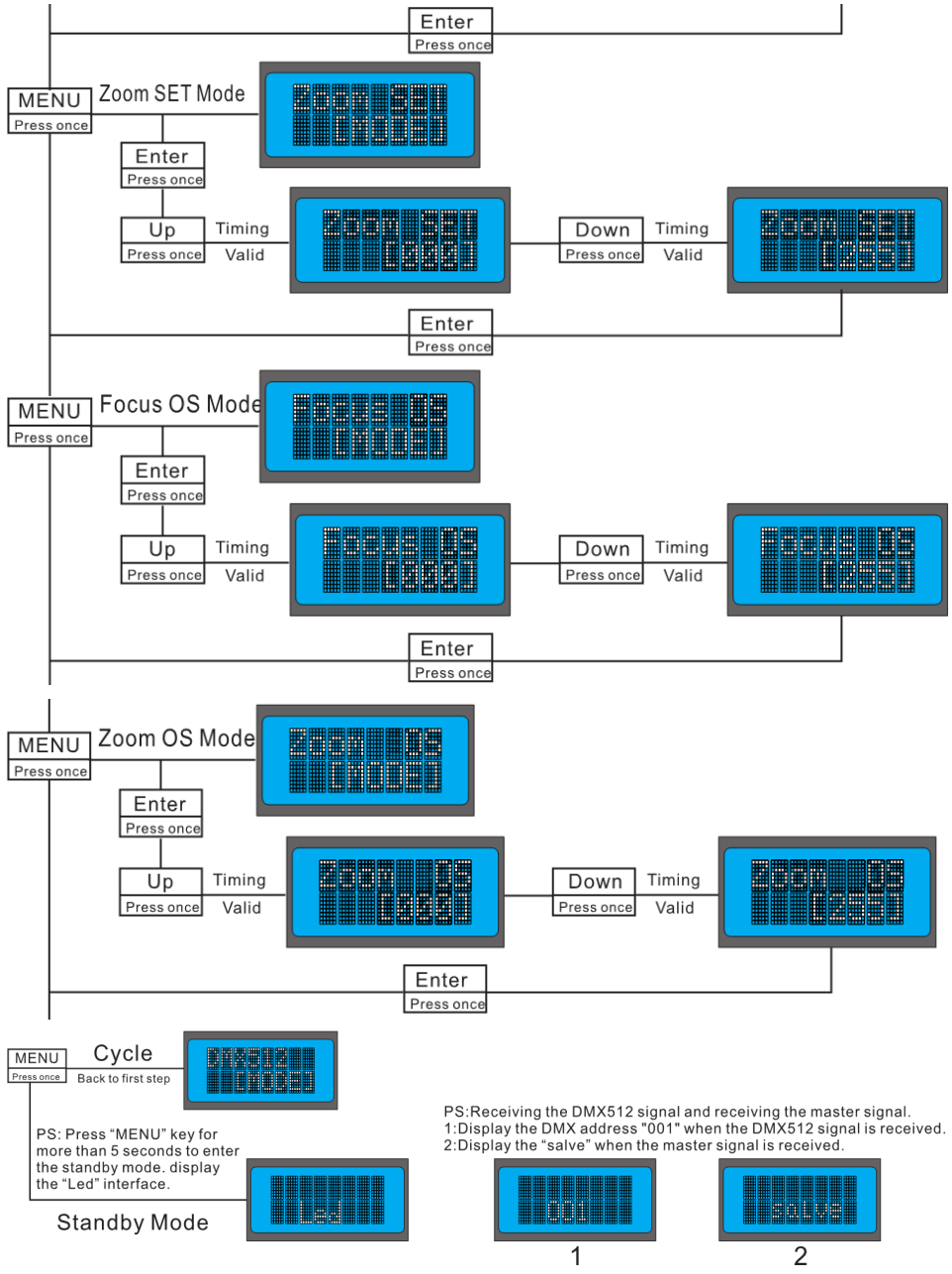
The way into the menu as below:

1. Press **ENTER** when the display show the title information;
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




MENU
Press once
Strobe Mode
Enter
Press once
Up
Press once
Timing
Valid
Down
Press once
Timing
Valid
Enter
Press once
MENU
Press once
Fade Mode
Enter
Press once
Up
Press once
Fade
Valid
Down
Press once
Fade
Valid
Enter
Press once
MENU
Press once
Auto Mode
Enter
Press once
Up
Press once
Auto
Valid
Down
Press once
Auto
Valid
Enter
Press once
MENU
Press once
Focus SE Mode
Enter
Press once
Up
Press once
Timing
Valid
Down
Press once
Timing
Valid


Enter
Press once
MENU
Press once
Zoom SET Mode
Enter
Press once
Up
Press once
Timing
Valid
Down
Press once
Timing
Valid
Enter
Press once
MENU
Press once
Focus OS Mode
Enter
Press once
Up
Press once
Timing
Valid
Down
Press once
Timing
Valid
Enter
Press once
MENU
Press once
Zoom OS Mode
Enter
Press once
Up
Press once
Timing
Valid
Down
Press once
Timing
Valid
Enter
Press once
MENU
Press once
Cycle
Back to first step
PS: Press "MENU" key for more than 5 seconds to enter the standby mode. display the "Led" interface.
Standby Mode
PS:Receiving the DMX512 signal and receiving the master signal.
1:Display the DMX address "001" when the DMX512 signal is received.
2:Display the "salve" when the master signal is received.
1
2

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

16CH MODE

CH	Name	Value	Function
CH1	Red dimmer	000←→255	Red 0-100% linear dimmer
CH2	Green dimmer	000←→255	Green 0-100% linear dimmer
CH3	Blue dimmer	000←→255	Blue 0-100% linear dimmer
CH4	Amber dimmer	000←→255	Amber 0-100% linear dimmer
CH5	Lemon dimmer	000←→255	Lemon 0-100% linear dimmer
CH6	Macor color	000←→255	Macor color
CH7	CCT	000←→255	Color temperature 1800-10000K
CH8	Function	000←→010 011←→135 136←→255	Invalid Color fade Color change
CH9	Strobe	000←→010 011←→255	Invalid Strobe from slow to fast
CH10	Dim 4	000←→064 065←→128 129←→192 193←→128	Curve 1 Curve 2 Curve 3 Curve 4
CH11	Dimming	000←→255	All dimming 0-100%
CH12	Dimming fine	000←→255	Dimming fine 0-100%
CH13	Focus	000←→255	Focus 0-100%
CH14	Zoom	000←→255	Zoom 0-100%
CH15	Focus fine	000←→255	Focus fine 0-100%
CH16	Zoom fine	000←→255	Zoom fine 0-100%

9CH MODE

CH	Name	Value	Function
CH1	Hue	000←→255	Hue 0-100%
CH2	Saturation	000←→255	Saturation 0-100%

CH3	General dimmer	000←→255	General dimmer 0-100%
CH4	CCT	000←→255	Color temperature 1800-10000K
CH5	Strobe	000←→255	Strobe, from slow to fast
CH6	Focus	000←→255	Focus 0-100%
CH7	Zoom	000←→255	Zoom 0-100%
CH8	Focus fine	000←→255	Focus fine 0-100%
CH9	Zoom fine	000←→255	Zoom fine 0-100%

Ⅶ TECHNICAL SPECIFICATION

·Input power: AC100~240V, 50/60Hz

·Power consumption: 450W

·Light sources: 400W brand RGBAL 5in1 COB LED Lamp

·LED lifespan: 50,000hours

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

·Beam angle: 17-50degree

·Color temperature: 1800K-10000K

·Control mode: DMX-512; RDM; Dim4,

·DMX channel: 16CH, 9CH

·Focus: DMX focus adjustable

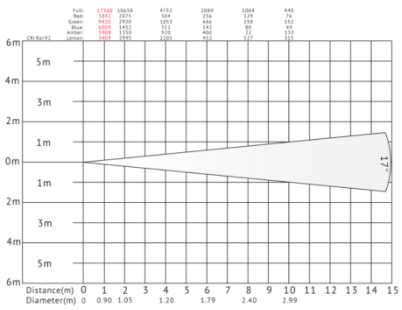
·Light visor: optional

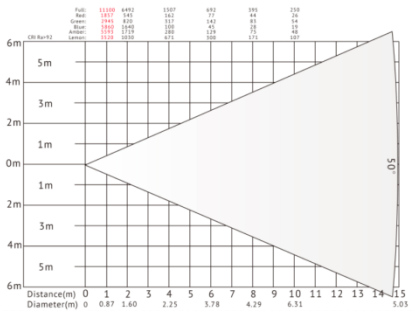
·IP rating: IP20

·Housing material: aluminum alloy

·Working temperature: -25~40centigrad degree

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

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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Innovation, Quality, Performance, Achieving Users' Value!