

USER MANUAL

LED BEAM MOVING HEAD 108



Professional Entertainment Technology

TABLE OF CONTENTS

1. **Safety Instruction**
2. **Technical Specification**
3. **How To Set The Unit**
4. **How To Control The Unit**
5. **Troubleshooting**
6. **Fixture Cleaning**

Please read carefully the instruction, which includes important information about the installation. usage and maintenance

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet

Unpack and check carefully there is no transportation damage before using the unit. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit

It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

The unit is for indoor use only. Use only in a dry location

The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked

Disconnect main power before replacement or servicing.

Make sure there is no flammable materials close to the unit while operating as it is fire hazard.

Use safety cable when fixes this unit. Don't handle the unit by taking its head only, But always by taking its base.

Maximum ambient temperature is $t_a:40^{\circ}\text{C}$. Don't operate it where the temperature is higher than this.

Unit surface temperature may reach up to 85°C .Dont touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type Spare parts.

Warning

To prevent or reduce the risk of electrical shock or fire, do not expose the unit the rain or moisture.

Do not open the unit within five minutes after switching off.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, Please contact your nearest dealer.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

Fixture Cleaning

The cleaning of internal and external optical lens and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the units optics

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days

Another new edition of Led Moving Head 108 x 3W RGBW well-know has Strong, but this time it came with CREE LED's and it very attractive light.

And it have 108 high-quality LED Red, Green, Blue, White, that make it to provides a very good light and bright, in which make it have a strong and very concentrated light beam.

The view Angle 5°, and You also get a complete additional filter that will turn wider the wash angle to 25°.

FEATURES

High quality CREE LED's in four basic colors (RGBW)

Angle 5°- 25° additional filter

color Balance

Extremely fast and very good precise movement

Ultra compact design light

The device weight (8.4 kg)

PHYSICAL

Height: 390 mm

Width: 370 mm

Depth: 265 mm

Weight: 8.4 kg

DYNAMIC EFFECTS

RGBW color mixing

Liquid electronic dimmer (0-100 %)

Electronic strobe with variable speed (0 - 20hz), or the result of random

PAN : 630o

TILT : 240o

Speed control PAN , TILT DMX

CONTROL AND PROGRAMMING

Control of the market definition PAN and TILT (8bit or 16bit)

DMX512 : 9, 12 or 16 channels

Sound control , master-slave

Setting and addressing : LCD with back-light

OPTICS

Viewing angle : 5 °

Light power : LUX : 66 000 @ 2m, 16 500 @ 4,5 m

CREE 3W LED's : 28xR , 28xG , 26xB , 26xW

EXECUTION

Aluminum construction with plastic

Two side handles for transportation
Degree of protection: IP20

INSTALLATION

Two handles for screw hooks
Indoor use only
Mounting head in any position
Minimum distance to illuminated surfaces : 1 mouth
Keep a minimum distance from the surrounding area of the head : 0.5 m

CONNECTORS

Power connector IN: Neuritic Power-Con
Power connector OUT : Neuritic Power-Con
DMX512 signal connector : 3-pin XLR (IN, OUT)

ELECTRICAL

Power supply : AC 110V - 240V , 50/60Hz
Maximum power consumption: 320W
Protection: T6 , 3A

ACCESSORIES INCLUDED

IN Power-Con power cable (blue connector)
Brackets for attaching the head to the structure (1pc)
Filter Wash - 25 °
User manual

USEFUL INFORMATION FOR ORDERING

Packaging (1unit) : 410x390x285mm
Gross Weight: 9.8 kg

3. How To Set The Unit

3.1 Control Panel



Display

To show the various menus and the selected functions

Led

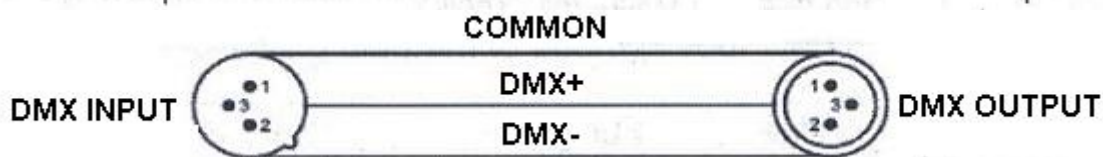
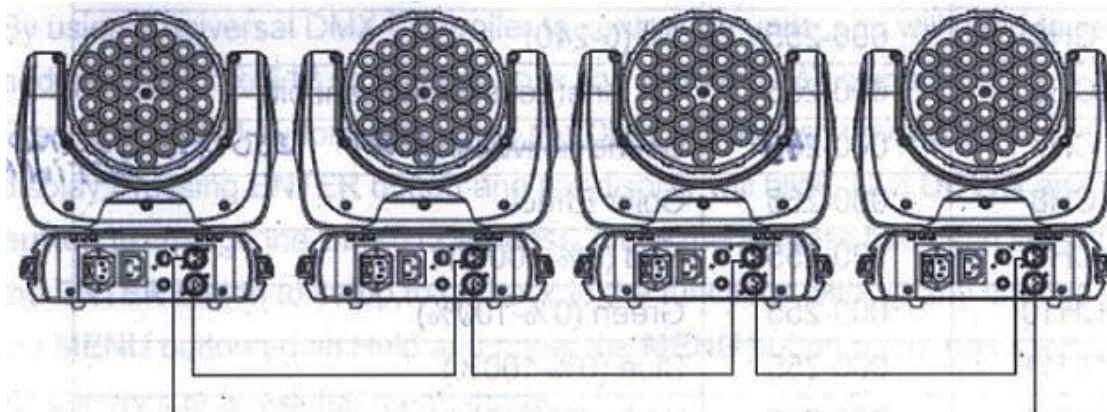
DMX	On	DMX input Present
MASTER	On	Master Mode
Slave	On	Slave Mode
Sound	Flashing	Sound activation

Button

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

	DMX Address	001
		512
		9CH
	Channel Set	12CH
		16CH
		SHOW1
	Show Mode	SHOW2
		SHOW3
		SHOW4
		SLAVE1
	Slave Set	SLAVE2
		YES
	Black Out	NO
		ON
	Sound Mode	OFF
		0
	Sound Sense	100
MENU	Pan Inverse	YES
		NO
	Tilt Inverse	YES
		NO

White Balance	RED	125
	GREEN	
	BLUE	255
	PAN	
	TILT	
	RED	0
	BLUE	255
	DIMMER	
Temp.	31°C	
Defaults	NO	Pro Defaults
	YES	Auto Defaults
Fixture Reset	NO	
	YES	



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.



DMX Controller

By using a universal DMX Controller to control the units, you will need to set DMX address from 1 to 512 so that the units can receive DMX signal Press the **MENU** button up to when the **DMX Address** is showing on the display. Pressing **ENTER**

button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
9 channels	1	10	19	28
12 channels	1	13	25	37
16 channels	17	17	33	49

4.4 DMX 512 Configuration 9 Channel Mode:

Channel List	Value	Function
CH1	000-255	Pan(0-630)
CH2	000-255	Tilt(0-240)
CH3	000-255	Strobe
CH4	000-255	Red (0%-100%)
CH5	000-255	Green (0%-100%)
CH6	000-255	Blue (0%-100%)
CH7	000-255	White (0%-100%)
CH8	000-255	Dimmer (0%-100%)
CH9	240-255	Reset 240/255 Sound

12 Channel Mode:

Channel List	Value	Function
CH1	000-255	Strobe Effect
CH2	000-255	Dimmer (0%-100%)
CH3	000-255	Pan(0-630)

CH4	000-255	Pan Fine(Least significant bit)
CH5	000-255	Tilt (0-240)
CH6	000-255	Tilt Fine(Least significant bit)
CH7	000-249	Reset 250-255 Sound Activat
CH8	000-255	^{<TC7} Color Effect
CH9	000-255	Red (0%-100%)
CH10	000-255	Green (0%-100%)
CH11	000-255	Blue (0%-100%)
CH12	000-255	White (0%-100%)

16 Channel Mode:

Channel List	Value	Function
CH1	000-255	Pan(0-630)
CH2	000-255	Pan Fine(Least significant bit)
CH3	000-255	Tilt (0-240)
CH4	000-255	Tilt Fine(Least significant bit)
CH5	000-255	Pan & Tilt Speed
CH6	000-255	Pan & Tilt Auto Run
CH7	000-255	Auto Run Speed
CH8	000-240	Reset 240 / 255 Auto run color
CH9	000-255	Dimmer (0%-100%) [^]

CH10	000-255	Strobe
CH11	000-255	Red (0%-100%)
CH12	000-255	Green (0%-100%)
CH13	000-255	Blue (0%-100%)
CH14	000-255	White (0%-100%)
CH15	000-255	Color Auto Run
CH16	000-255	Color Auto Run Speed

Reset

Press the **MENU** button up to when the **Reset** is blinking on the display. Pressing **ENTER** button and all channels of the unit will return to their standard position.

EC-Declaration of Conformity

We declare that our products (lighting equipment) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2:1997A1:2001;EN61000-4-2:1995;EN61000-4-3:2002; EN61000-4-4:1995; EN61000-4-5:1995; EN61000-4-6:1996, EN61000-4-11:1994

&

Harmonized Standard

EN60598-1:2000+ALL: 2000+A12:2002 Safety of household and similar electrical appliances Part 1:General requirements