

# LED MOVING HEAD ZOOM 144W WASH 4in1 RGBW

## User Manual



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## 1. Preface

### 1.1 Packing list

Product name	quantity
Mini Moving Head Light	1 pcs
Unser Manual	1pcs

### 1.2 Unpacking instructions

On receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are presented, and have been received in a good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows, sign of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory , it is important that the fixture be returned in the original factory box and packing.

### 1.3 AC Power

To determin the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixtures specifications chart. A fixture listed current rating is its average current draw under normal conditions. All fixtures must be directly powered off a switched circuit and cannot be run off a rheostat(variable resisto) or dimmer circuit, even if the rheostat or dimmer source voltage matches the fixtures requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it sets to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth ground.

### 1.4 Safety instructions

Pleese read these instructions cy, it includes important information about the installation, usage and maintenance of this product.

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.

Always make sure that you are connecting to the proper voltage, and that the line voltage you are connection to is not higher than that stated on the decal or rear panel of the fixture.

This product is intended for indoor use only ! To prevent risk of fire or shock, do not expose fixture to rain or moisture.

Make sure that there are no flammable materials close to the unit while operation.

The unit must be installed in a location with adequate ventilation, at least 20in(51cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

Always disconnect from power source before servicing or replacing fuse and be sure to be replaced with same fuse , size and type.

Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.

Maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate fixture at temperature higher than this.

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

Don't connect the device to a dimmer device.

Make sure the power cord never crimped or damaged.

Never disconnect the power cord by pulling the cord.

Avoid directing eye exposure to the light source while it is on.

## 2. Introduction

### 2.1 Features

12 channel DMX-512 .

Pan :630° /tilt:270° .

Variable electronic strobe.

Variable electronic dimmer(0-100%).

LED display menu with invert.

Reset to factory settings option.

Pan/tilt invert option.

Fan cooled.

### 2.2 DMX Channel

Channel	Function
1	Pan
2	Tilt
3	Pan/Tilt Speed
4	Red
5	Green
6	Blue
7	White
8	Mix color
9	Strobe and Reset
10	Dimmer
11	ZOOM
12	Pan Fine
13	Tilt Fine

## 3. Setup

Disconnect the power cord before replacing a fuse and always replace with the same type fuse.

### 3.1 Fuse replacement

With a flat head screwdriver wedge the fuse hold out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

### 3.2 Fixture linking

You will need a serial data link to run light show of one or more fixtures using a DMX-512 controller or to run synchronized on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the

fixtures on a serial data link determines the number of fixtures the data link can support.

Maximum recommended serial data link distance:500 meters(1640ft).

Maximum recommended number of fixtures on a serial data link:32 fixtures.

### **Data cabling**

To link fixtures together you must obtain data cables. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

### **DMX data cable**

Use a belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following character:

2-conductor twisted pair plus a shield.

maximum capacitance between conductors-30 pF/ft.

maximum capacitance between conductor and shield -55 pF/ft.

maximum resistance of 20 ohms/1000ft.

nominal impedance 100~140 ohms.

### **3.3 3-Pin to 5-Pin conversion chart**

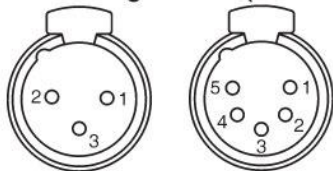
Note! If you use a controller with a 5 pin DMX output connector. you will need to use a 5pin to 3 pin adapter

CHAUVET Model No:DMX5M. orDMX 5F

The chart below details a proper cable conversion:

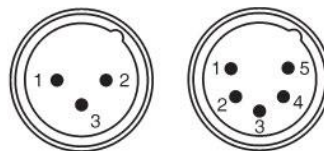
Occupation of the XLR-connection:

DMX - output  
XLR mounting-sockets (rear view):



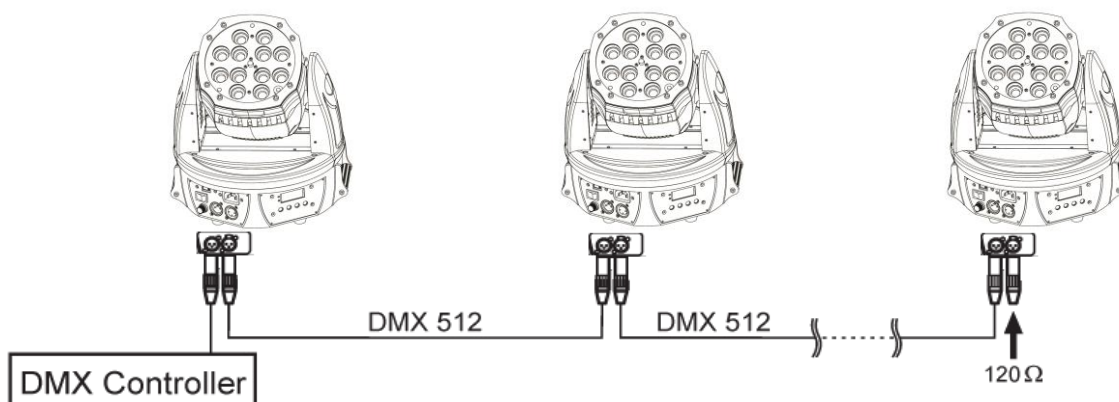
- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)
- 4 - Not connected
- 5 - Not connected

DMX-input  
XLR mounting-plugs (rear view):



### **3.4 Setting up a DMX serial data link**

At first, link the first light and DMX control through XLR-connection signal cable then devolute the light in series ,as follows:



### **3.5 Master/Slave fixture linking**

1.Connect the (male) 3 pin connector side of the DMX cable to the output (female)3pin connector of the first fixture.

2.Connect the end of the cable coming from the first fixture which will have a (female)3 pin connector to the input connector of the next fixture consisting of a (male)

3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

### 3.6 orientation

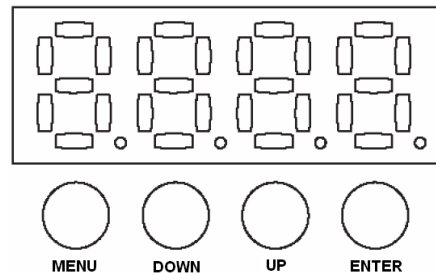
This fixture may be mounted in any position provided there is adequate room for ventilation.

## 4. Operating instructions

### 4.1 Navigating the control panel

Access control panel functions using the four panel buttons located directly under the LCD Display.

Button	Function
<MENU>	Used to access the menu or return to a previous menu option.
<DOWN>	Scrolls through menu options in descending order.
<UP>	Scrolls through menu options in ascending order.
<ENTER>	Used to select and store the current menu or option within a menu.



. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press<ENTER>.

Press the <MENU> button repeatedly until you reach the desired menu function. Use the <UP> and <DOWN> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the <MENU> button.

No alteratived worth that return re-option or menu , press(MENU)button

### 4.2 Menu map

**RPON** (address code setting from A001-----A512)

**AU01**(auto-moving speediness)

**AU02**(slow speed auto-moving)

**SN01**(Sound control for color changing)

**SN02**( Sound control for strobe)

**RPOF**(Set pan to forward-rotating)

**RPON**(Set pan circumrotate reverse)

**RTOF**(Set tilt to forward-rotating)

**RTON**(Set tilt circumrotate reverse)

**RDOF**(set the LED readout to non-inverting)

**RDON**(Set the LED readout to inverting)

**DFON** (Default output setting)

**Note: output default setting address code is A001, pan is positive circumrotate、tilt is positive circumrotate、LED positively reveal.**

### 4.3 User configurations

**Setup single-desk light`s autocephaly moving mode(auto-running)**

.Press the **MENU** until it shows **AU01**

.Use the **UP/DOWN** buttons to set to **AU01** or **AU02** ,Press **ENTER** to confirm.

### **Setup single-desk light`s autocephaly moving mode(sound control)**

.Press the **MENU** button until it shows **SNOF** .

.Use the **UP/DOWN** buttons to set to **SNOF** ,press **ENTER** to confirm.

### **Master/slave mode(auto-running、 sound control)**

.This mode will allow you to link up 32 units together without a controller.

.Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units.Proper performance it may be necessary to use a terminator at the last fixture. For more information about terminators..

**Set the desired master-mode-** “Automatic program mode” or”sound controlled mode”, for the master-device, send the DMX address 1 for all slave-devices. Please refer to the instruction under control board.

### **To set the pan to reverse**

.Press the **MENU** until it shows **RPOF**.

.Use the **UP/DOWN** buttons show **RPON**, press **ENTER** to confirm.

### **To set the tilt to reverse**

.Press the **MENU** until it shows **RTOF**

.Use the **UP/DOWN** buttons show **RTON**, press **ENTER** to confirm.

### **To set the LED readout to 180° ,rotating**

.Press the **MENU** until it shows **RDOF**.

.Use the **UP/DOWN** buttons show **RDON**, press **ENTER** to confirm.

### **Resume reverse Windows default**

.Press the **MENU** until it shows **DFON**.

.press **ENTER** to confirm。

### **DMX mode**

This mode allows the unit to be controlled by any universal DMX controller.

The default mode for the fixture is DMX, as follows

### **4.4 DMX channel values**

Channel	Value	Function
1	0-255	<b>Pan</b> Pan movement
2		<b>Tilt</b>

	0-255	Tilt movement
3	0-255	<b>Pan/Tilt Speed</b> Pan/Tilt Speed
4	0-255	<b>Red</b> 0-100% Red
5	0-255	<b>Green</b> 0-100% Green
6	0-255	<b>Blue</b> 0-100% Blue
7	0-255	<b>Amber</b> 0-100% Amber
8	0-2 3-41 42-83 84-125 126-167 168-209 210-251 252-255	<b>Mixed Color</b> No function Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 No function
9	0-10 11-20 21-30 31-200 201-250 251-255	<b>Strobe and Reset</b> LED off LED on Reset Strobe-effect with increasing speed Random strobe-effect with increasing speed LED on
10	0-255	<b>Dimmer</b> 0-100% dimme
11	0-255	<b>zoom</b>
12	0-255	<b>Pan Fine</b> Pan fine
13	0-255	<b>Tilt Fine</b> Tilt fine

## 5. Technic data

### Voltage

230V 50Hz

### Fuse

5A,  $\Phi$  5×20mm,

### Lamp resource

12pcs 12w LED

### Pan

630°, 16bit fine

### Tilt

270°, 16bit fine

### Tiptop environment temperature

104°F(40°C)

### Date input/output

3pin XLR-connection、anlde socket

### Product size

260 × 260 × 350mm(L×W×H)

### N.W

5.7kg

### Packing size

645 × 360 × 405mm(L × W × H)(2pcs/package)

### G.W (1pc)

6.6kg