

# **USER MANUAL**

## **LED CosmoPix Moving Head Light**

### **INTRODUCTION**

Thank you for having chosen the item. You will see you have acquired a powerful and versatile device. Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

### **SAFETY INSTRUCTIONS**

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!

Keep this device away from rain and moisture!

Unplug mains lead before opening the housing!

For your own safety, please read this user manual carefully before you initial start-up.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device.

Leave the device switched off until it has reached room temperature. Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Make sure that the available voltage is not higher than stated on the rear panel. During the operation, the housing becomes very hot. Do not switch the device on and off in short intervals as this would reduce the lamp's life. Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics)! Keep away from children and amateurs! . This product is designed for indoor use only. This device is designed for professional use, e.g. on stages, in discotheques, theatres etc. The minimum distance between light-output and the illuminated surface must be more than 0.5 meters. Always fix the fixture with an appropriate safety-rope. The maximum ambient temperature  $t_a = 45^\circ \text{C}$  must never be exceeded. Operate the device only after having become familiar with its functions.

#### **Features**

Three operation modes: DMX 512 protocol, sound active, auto, master/slave, 12 pcs \* CREE RGBW 4 in 1 20W RGBW high MCD LEDs operating in various modes to form different led beams

#### **Installation**

On the rear panel of the item you can find an XLR-jack (DMX Out) and an XLR-plug (DMX In), which can be used for connecting several devices. Choose the device which is to control the effects. Connect the DMX OUT-jack with the DMX IN-plug of the next device.

#### **DMX-512 connection / connection between fixtures**

**The wires must not come into contact with each other, otherwise**

##### **Occupation of the XLR-connection:**

If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

### **Building a serial DMX-chain:**

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

**Caution:** At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

### **Connection with the mains**

Connect the device to the mains with the enclosed power supply cable.

## **OPERATION**

### **1. DMX operation mode**

#### **Addressing**

After you connect the item to the mains, the item starts running. During the Reset, the motors are trimmed and the device is ready for use afterwards. The four-digital LED display on the base of the item allows you to assign the DMX fixture address, which is defined as the first channel from which the item will respond to the controller. If you set, for example, the address to channel 7, the item will use the channel 7 to 12 for control. Please, be sure that you don't have any overlapping channels in order to control each item correctly and independently from any other fixture on the DMX data link. If two, three or more items are addressed similarly, they will work similarly. When the item finishes resetting, 001 will flash in the led display and then set the desired DMX address by pressing the UP or DOWN buttons.

#### **DMX Controlling:**

After having addressed all items, you may now start operating these via your lighting controller. After switching on, the item will automatically detect whether DMX 512 data is received or not.

## **Function of the control channels**

### **21-channel mode**

**Channel 1 – pan**

**Channel 2 – tilt**

**Channel 3 –pan 16 bit**

**Channel 4 –tilt 16 bit**

**Channel 5 –pan,tilt speed adjustment**

**Channel 6 – tilt running continuously**

**Channel 7 - dimmer from darkness to full brightness**

**Channel 8 - LED 1**

0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe

**Channel 9 - LED 2**

0-2	off
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3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 10 - LED 3</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 11 - LED 4</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 12 - LED 5</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 13 - LED 6</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 14 - LED 7</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 15 - LED 8</b>	
0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe
<b>Channel 16 - LED 9</b>	
0-2	off
3-119	color macros
120-169	color changing A

170-219	color changing B
220-255	strobe

#### **Channel 17 - LED 10**

0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe

#### **Channel 18 - LED 11**

0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe

#### **Channel 19 - LED 12**

0-2	off
3-119	color macros
120-169	color changing A
170-219	color changing B
220-255	strobe

#### **Channel 20 - effects modes**

#### **Channel 21 - preset shows**

## **2. sound active**

Press the button MODE, select and confirm SOUND PR mode by the buttons UP, DWON and ENTER, the item will run to the beat of music.

## **3. auto**

Press the button MODE, select and confirm the following by the buttons UP, DWON and ENTER, the item will run auto shows:

Auto pr 1: preset show 1

Auto pr 2: preset show 2

Auto pr 3: preset show 3

## **4. Synchronization & master /slave mode**

Take one item and set the item at sound active, or auto as above, then get other items and press the button MODE, till slave shows in the lcd display, confirm by the button of ENTER, then connect the items to the item at auto/sound active already set by DMX cables, disconnect the items from DMX controller, the items will work simultaneously, the item at auto/sound active as master, the others as slave.

## **Control board**

-set up:

-DMX ADDRESS

-DMX MODE



- RUN MODE: DMX 512,AUTO PR 1,AUTO PR 2,AUTO PR 3,EDIT PR,SOUND PR
- DIRECTION REV: X reversion, Y reversion,XY swap
- MASTER SLAVE
- BOOT LIGHTS
- SCREE SAVER
- FACTORY SETTING
- LANGUAGE
- FACTORY SETTING
- EDIT: scenes edit,edit pr 1, edit pr 6,12 scenes can be edited,edit pr 1 run, edit pr 6 run
- system: version inf,DMX values,system error,total time,the use time,lamp reset
- advance,sensors inf,reset adjust,touch set,white adjust

### **Replacing the fuse**

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

**Before replacing the fuse, unplug mains lead.**

#### **Procedure:**

**Step 1:** Open the fuse holder on the rear panel with a fitting screwdriver.

**Step 2:** Remove the old fuse from the fuse holder.

**Step 3:** Install the new fuse in the fuse holder.

**Step 4:** Replace the fuse holder in the housing.

## **TECHNICAL SPECIFICATIONS**

Power supply: 90-240 AC 50/60 Hz

Power consumption: 300W

100,000 hours of led life

**12 pcs\* 20W CREE 4 in1 RGBW high MCD LEDs**

DMX-control-channels: 21

DMX-512-connection: 3-pin XLR

operational modes: DMX, Master/Slave, Stand Alone & Sound Active

16 bit smooth and precise resolution for pan/tilt movement

X/Y auto repositioning, 0-100% linear dimmer,

Tilt: running continuously,LCD DMX menu system

Fan cooled, Shutter: Pulse effect; random strobe slow to fast

Pan: 540-degree

Stepper motors with micro stepping

Dimensions:330\*190\*390mm

Weight:6.0kgs

Maximum ambient temperature ta: 45° C

**Please note: Every information is subject to change without prior notice.**