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# **COBRA MOVING HEAD USER MANUAL**



Thank you for using the company's production of Moving Head Light , users have to read and keep in accordance with the contents of the manual operation in order to ensure the right and safe installation, use and maintenance ; and the company assumes no responsibility when users are not in accordance with the requirements to install, use and maintain resulting in damaging to lighting, property or personal injury . Please take good care of this prospectus when necessary.

**Special Note: This product can not be linked to the side !**

## **1 SECURITY TIPS**

In order to ensure your safety and the correct use of lighting. Please carefully read the following safety tips to avoid injury and unnecessary failures before use .

- 1, non-professionals, not the to disassemble the light arbitrarily and lighting accessories inside.
- 2, rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ (to be selected).
- 3, not beam irradiate the flammable materials, flammable materials and the lamp should be maintained at least 1M over the distance.
- 4, lamps used in ambient temperature: -15 °C -40 °C, the highest temperature of the surface of the lamp: 60 °C.
- 5, to keep away from the liquid substance and humid environment.
- 6, before using the lights must ensure the good grounding , can not install charging and remove any parts.
- 7, the installation of lamps, must be fixed screw fasteners with additional security cable and regular inspection.
- 8, lamps consecutive working hours is not recommended more than 10 hours.
- 9, should stop using the lights in time when happens unusual conditions during the process
- 10, lamp parts of the rotation , external accessories and paste parts should be regular inspected, such as the emergence of loose and rock , should be reinforced in a timely manner to prevent the accident.
- 11, lamps adopt strong winds to refrigerate, it is easy to accumulate the dust , so you have to clean it weekly especially the cooling air opening , otherwise the dust will plug leading to poor lighting unusually.

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## 2 TECHNOLOGY REFERENCE

- 1 Power supply: AC220V/50HZ
- 2 Power consumption: 140W Max.
- 3 Transformer: 120W Input:220V/50HZ Output: double 12v
- 4 Lamp: 3w 36pcs LED high brightness beads; R:12 G:12 B:12.
- 5 Product size: 53x36.5x37.5cm
- 7 N.W.: 7 Kg
- 9 Grounding resistance:  $\leq 0.5 \Omega$

## 3 FUNCTIONS INTRODUCTION

- 1 International universal control signal: DMX512
- 2 13 DMX channels
- 3 Digital display
- 4 Master/Slave mode
- 5 Electrical motor: processing system inside control 3 microstep electrical motors
- 6 RGB color mixing
- 7 Program inside
- 8 Adjustable flash frequency
- 9 Pan: 450° Y1: 160° Y2: 160° All of them are micro-step precisely

## 4 DISPLAY CODE SETTING METHOS

Each computer lamp should be endowed with a digital starting address number to guarantee the computer lamp may response to the correct control signal. The digital starting address number is a channel number by which the computer lamp only can follow the numerical control instruction from the controller. This computer lamp has used 12 numerical control channels, the digital starting address is set by stiring the LCD on board which comes to regards as the digital start address value.

### **Computer lamp numeral starting address computation method:**

Current computer lamp numeral starting address = (Last computer lamp numeral starting address value) + (controller basic channel number).

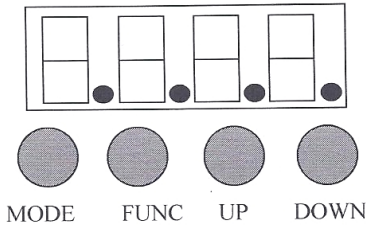
### **Illustration:**

- (1): The first computer lamp numeral start address value is 1
- (2): The controller basic channel numbers should be bigger than or be equal to the computer lamp used numerical control channels.

**Note:**

When using any of the controllers, each lamp must has its own numerical starting address , such as the controller is 16-channel, the first lamp set to address A001; then the second lamps Address set on the A017 (1 +16); the third address position set on the A033 (1 +16 +16) , and so on, (setting way is up to the different controller)

**DISPLAY BOARD ILLUSTRATION**



- MODE: For changing the processing mode.
- FUNC: For selecting the functions
- UP、DOWN: For changing the parameters

**5 OPERATING ILLUSTRATION**

**(1) PROCESSING MODE**

Press MODE key after the lamp start , then you can choose modes as follows:

**① DMX mode**

A. 001: press UP or DOWN key to A001 , and the lamp is in DMX mode. When the signal input , th first light flash on the display tube ,and there is no signal ,the light is in light out state

A001	A. 001	Address setting
FEST	no / yes	reset
Pan	on / off	Pan reverse
Tit1	on / off	Tilt reverse
Til2	on / off	Tilt2 reverse
RL	rlop-rlo9	Red

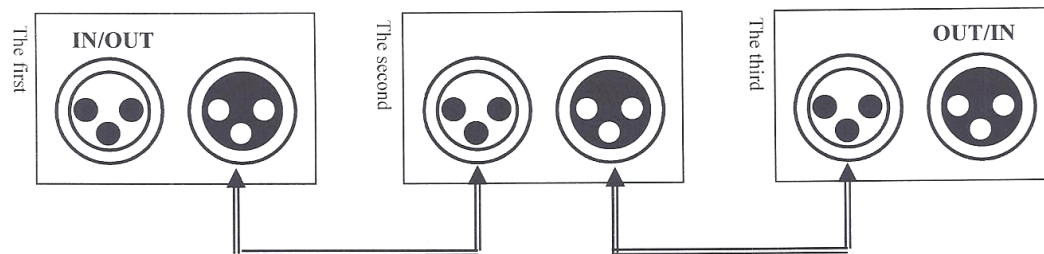
GL	gloo-glo9	Green
BL	bloo-blo9	Blue
FLS	fls00-09	Strobe
FAD	fd00-fd09	Fade
SCE	sc00-sc03	Color scene
SPD	sp00-sp09	Color scene speed adjustable
SHY	hy00-hy03	XY scene
CRO	cr00-cr09	XY exchange (interval)
SOUND	sd00-sd09	Sound (precision)

## 6 DMX CHANNEL SHEET

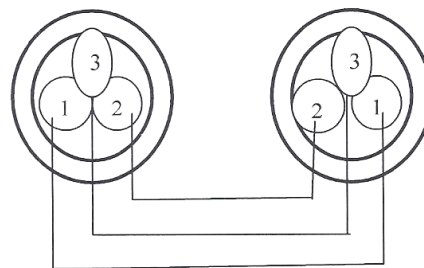
Channel	Value	Function	Discription
1	0~255	X	Horizontal rotating
2	0~255	Y	Vertical rotating
3	0~255	Z	Vertical rotating
4	0~255	Speed adjustable	From fast to slow
5	0~255	RED	From darkness to brightness
6	0~255	GREEN	From darkness to brightness
7	0~255	BLUE	From darkness to brightness
8	0~255	DIM	RGB Dimmer
9	0~15 16~255	Nop Strobe	From slow to fast
10	0~15 16~63 64~111 112~159 160~207 208~255	Nop Fade Scene	Ban Fade Scene 1 Scene 2 Scene 3 Scene 4
11	0~15 16~75 76~135 136~195 196~255	XYZ Macro	Ban Scene 1 Scene 2 Scene 3 Scene 4
12	0~255	XYZ Macro speed	From fast to slow
13	0~246 247~249 250~255	Reset	Nop Prolong 3S to reset Nop

## DMX 512 SIGNAL CONNECTION

The lamp is in DMX 512 signal control mode, the control signals of lamps are the parallel relationship, lights signal lines to connect more, it is best to use dual-core shielded cable. When connected, through the DMX signal jack "INPUT" or "OUTPUT" for both connected (as shown in Figure A), the male-female XLR 3-core plug terminal for connecting the signal lines must correspond to each other: ( as shown in Figure 2)



I LAMP CONNECTING METHOD



II PLUG CONNECTING METHOD

## 7 TROUBLE SHOOTING

The following is a list of problems and resolution , and other malfunction preparing work should be professionally qualified staff to deal with.

### 1, Bulb not working

Check whether approaching the service life of light bulbs, then change it

Check whether bulbs circuitry leak, loss or connect poorly

### 2. Beam appears bleak

The bulbs maybe approach the service life, then change it, or the optical components are uncleaned.

Bulbs have accumulation of dust, so the bulbs and other parts inside the lamp should be cleaned and maintained in regular period.

### 3. Computer lamp work intermittently

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- Check whether the fan process naturally and become dirty
  - Check inner temperature-response control plug is off
  - Check whether the circuitry is good
  - 4. The computer lamp not controlled by controller during lighting
    - Check numeral starting address and the connection of communication control circuit
    - The corresponding channel button of controller is open or not
  - 5. Computer lamp out start
    - Check whether the fuse on power supply input jack is broken off
    - Whether the connection is good caused by vibrating during transportation
    - Check power supply and computer board
  - 6. After checking, some function not working
    - Check whether these function are in charge, or the chips are broken by high-pressure concussion
  - 7. After checking, the program disorder and be out of control
    - Whether the signal is DMX 512
    - Whether the circuitry is short and open



8 CLRANING

To make sure the stable run of lamp, you should keep it clean. Command clean machine and fan. To accurate the best state and effect, you should clean lens and color filter timely, and do not use any soluble detergent when cleaning the color filter avoiding the damage to lamp.

9 AFTER SERVICE

- ① Our company offer technical consultation to customers for ever.
- ② If the machine is wrong and need repairment, please truthfully fill in the related content and feedback us the problems timely, as well as we have to improve the product.
- ③ In addition to the lamp, also matching accessories are as follows:

<b>accessories:</b> Power line	1 piece	Optional parts: (customers)
Signal line	1 piece	Users manual
Light hook		1 sheet
Warranty card	1 card	Safety cable

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Warranty Card

Name

Model

Production date

Purchase day

End-user

Company name:

Address:

Telephone:

Sales store

Linkman:

Telephone:

stamp

Description: These must be truthfully fill, seal by the end-user and point-of-sale, or else the warranty will not work (warranty period and terms, see the following)

warranty period: one year since purchase

(2)There's blank, alter and no point-of-sale name

warranty terms: 1、 If fail when using the product in normal state, you can made under the provisions of the warranty, show the warranty card and purchase bills (copy), and enjoy free maintenance service in a specific service center or the manufacturer.

(3)Fail caused by unresistance

2. The following will be the implementation of paid service: system

(4)Fail caused by transportation or unloading

(1)Without the effective warranty card

(5)Fail caused by not operate by manual

(6)Fail caused by disassemble without unauthorized

(7)Fail caused by using the unauthorized control

(8)Consumables(bulb)