

# Animation laser moving head

→ User manual



**Please keep read this manual carefully for further use!**

**Content**

**Introduction/spare part/cautions-----P2**

**Silkscreen symbol/safety/cautions-----P3**

**Installation/Rigging/Product specification-----P4**

**Menu operation -----P5**

**DMX channel-----P7**

**DMX-512 connection/DMX address setting-----P11**

**Maintenance/warnings/Warranty card-----P12**

## Product introduction

Thank you for buying our animation moving laser product.

This user manual includes important information for installation and operation, so please read this user manual carefully before installation and operation, and keep this user manual well for further use.

In order to install , operate, and maintain the lighting safety and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.

### Spare part includes:

Name	QTY	Unit
Fixture	1	PC
User manual	1	PC
Power cable	1	PC
bracket	1	PC

Please check carefully that there is no damage caused by transportation. Should there be any, consult your local dealer.

### Cautions

**Before delivery, this device has passed strict inspection, Please follow the user manual strictly for operation, if this fixture is damaged by improper operation and mistake, the fixture will be out of warranty, and manufacture or dealer won't be responsible for it. In case of any technology change in this manual,we won't advise in further .**

#### **CAUTION!**



**Keep this device away from rain and moisture!**



**Unplug mains lead before opening the housing!**



#### **Warning!**

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or**

**Silkscreen symbol**

 -----CE compliant

 -----Only indoor use

 -----RoHS Certificate

 -----The minimum distance from lighted objects(meter)

 ----- not suitable for direct installation on combustible material surface

**1. Safety Instructions**

- Please open and check whether break or not for transport once receive this fixture, if yes, don 't use it and contact dealer or manufacture as soon as possible.
- The Max applicable temperature for the light is 40°C. Do not use the light when the ambient temperature exceeds 40 degrees,  $t_a=40^{\circ}\text{C}$
- The fixture is applicable for many occasions, please keep it clean, and avoid long use in overheating or dusty environment. To prevent the fixture from the chemical liquid .
- User must be careful of fire, heat, electric and fall-off that make heavy or fatal injury. Please read this user manual carefully before power on and installation, follow safety and operation instruction in it. If still have any question, please contact dealer or manufacture.
- User must follow this user manual, do not open fixture by yourself, if any problem, please contact professional technician, maintenance should be done by technician.
- Do not turn on the fixture before installation, please turn off the light after working more than 8 hours, which will prolong the lifespan of the fixture.
- During installation, prevent strong shocks or do not by strong shocks or vibration.
- The minimum distance between light and the illuminated surface must be more than 1 meter.



- Never look directly into the light source to avoid hurt to eyes (especially epileptics)!
- When dust proof glass at light output breaks, cracks or other visible damage, user should replace with new glass instead.

**Warnings : please turn off the light before repair, maintenance or cleaning!**

## **Installation**



### **CAUTION!**

Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during The installation. The installation must only be carried out by a qualified person.

- ▶ This fixture is not suitable for direct installation on combustible material surface, please keep the fixture surface at least 0.5m from any combustible material.
- ▶ If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.
- ▶ The applicable temperature for the fixture is between -25°C to 45°C. Do not use the lighting under or above this temperature range.
- ▶ The truss for hanging the fixture should be able to hold 10 times weight of this fixture and no deformation after 1 hour hang.
- ▶ Please don't stand under the fixture when install, uninstall, move or repair the fixture.
- ▶ Please ensure the light is connected correctly and invite professional technician to check and confirm the electrical data before installation.
- ▶ Please invite professional technician to check the fixture and installation each year.

## **Rigging:**

Insert the quick-lock fasteners of the first holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.

Fix the clamp on truss or other fixture bracket.

Pull the safety rope through the holes on the bottom of the base and fasten it on the truss or other fixing point.

Note: This step is quite important to ensure that fixture will not drop down for the clamp damage.

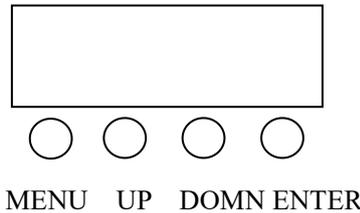
## **Product Specification**

- Light source: 4\*3W RGBW LED, 50000hrs, beam angle: 40°  
2W RGB laser: 400MW/638NM + 500MW/520NM + 1200MW/450NM, more than 5000hrs.
- 33CH DMX Channels
- Scanner: 15K Scanner angle: ±20°
- Modulation: Analog modulation
- Control mode : Master-slave/DMX/Sound/Auto.
- Pan: 540°(16bit) Tilt: 270°(16bit)
- Can driving inner program by auto or by DMX controller, within inner 166 different static patterns and 53 different animation patterns.
- 3 pins XLR, and LED display

## *Animation RGB moving laser*

- Environment using temp-10°~45°, with fans cooling system, and passed standard high and low temp testing,stable enough.
- AC100-240V 50/60Hz ; Power consumption: 70W

## Menu Instruction



- 1、“MENU”,Function option button, can cycle option Auto, Sound and DMX512 mode
- 2、“UP”, Increase button
- 3、“DOWN”,Decrease button.
- 4、“ENTER”, Save button, back to last scene when power in again

## Menu

Nenu (MENU)	Addr (Address setting)	enter	+/-	set address (001-512)	enter(save and exit)
	Chnd (Channel option)	enter	+/-	33 Ch	enter(save and exit)
	Shnd (Show mode)	enter	+/-	Sh_1 Show 1	enter(save and exit)
				Sh_2 Show 2	enter(save and exit)
				Sh_3 Show 3	enter(save and exit)
				Sh_4 Show 4	enter(save and exit)
				Sh_5 Show 5	enter(save and exit)
				Sh_6 Show 6	enter(save and exit)
	SLnd (Master-slave)	enter	+/-	Mast (Master)	enter(save and exit)
				SL 1 (Slave)	enter(save and exit)
Lost (Without DMX)	enter	+/-	blac (Black-out)	enter(save and exit)	
			auto	enter(save and exit)	

## Animation RGB moving laser

				soun Sound	enter(save and exit)
	Sens (Sound sensitivity)	enter	+/-	SE00-SE99	enter(save and exit)
	Nadj (Motor fine)	enter	+/-	Pan --> 000-255	enter(save and exit)
				Tilt --> 000-255	enter(save and exit)
	nInt (Reverse)	enter	+/-	Pan --> YES/NO	enter(save and exit)
				Tilt --> YES/NO	enter(save and exit)
	Led (Blackout)	enter	+/-	on	enter(save and exit)
				off	enter(save and exit)
	disp (Display reverse)	enter	+/-	on	enter(save and exit)
				off	enter(save and exit)
	Fhrs (Working time)	enter			enter(save and exit)
	Ver (Software version)	enter			enter(save and exit)
	defa (Factory default)	enter			enter(save and exit)
	Rset (Reset)	enter			enter(save and exit)

This fixture has 4 keys on panel for operation, press these to set address, reset, edit and run programs and so on.

[MENU]: press MENU key to enter edit status, in edit status, if press MENU again, it will return the upper interface. If no operation 30 seconds after enter edit status, the fixture will exit the edit status automatically.

[UP]: press UP key, the indicator will flash, the address increases one by one, if hold the key continuously, the address will increase rapidly. If no press within 30 seconds, the indicator stops flashing and exit it. In edit status, press UP key, it will display the options circularly from down to up.

[DOWN]: press DOWN key, the indicator will flash, the address decreases one by one, if hold the key continuously, the address will decrease rapidly. If no press within 30 seconds, the indicator stops flashing and exit it. In edit status, press DOWN key, it will display the options circularly from up to down.

[ENTER]: in normal status, no function to press ENTER. In edit mode, press ENTER to enter lower interface.

## *Animation RGB moving laser*

### DMX Channel

33 Channel Mode			
Channel		Value	Function
CH1	Pan	000-255	Pan: 0-540°
CH2	Pan Fine	000-255	Pan fine
CH3	Tilt	000-255	Tilt: 0-220°
CH4	Tilt Fine	000-255	Tilt fine
CH5	Dimmer	000-255	0-100%
CH6	Led-Red	000-255	0-100%
CH7	Led-Green	000-255	0-100%
CH8	Led-Blue	000-255	0-100%
CH9	Led-White	000-255	0-100%
CH10	Led-Strobe	000-015	Strobe Open
		016-030	Strobe Close
		031-090	VARIABLE STROBE SLOW TO FAST
		091-105	Strobe Open
		106-165	PULSE EFFECT SLOW TO FAST
		166-180	Strobe Open
		181-240	RANDOM STROBE SLOW TO FAST
		241-255	Strobe Open
CH11	Led-Macro	000-005	No Function
		006-017	Red
		018-029	Amber
		030-041	Warm Yellow
		042-053	Yellow
		054-065	Green
		066-077	Turquoise
		078-089	Cyan
		090-101	Blue
		102-113	Lavender

*Animation RGB moving laser*

		114-125	Mauve
		126-137	Magenta
		138-149	Pink
		150-161	Warm White
		162-173	White
		174-185	Cold White
		186-220	Color Jumping Slow->Fast
		221-255	Color Fading Slow->Fast
CH12	Laser-Red	000-255	0-100% dimmer
CH13	Laser-Green	000-255	0-100% dimmer
CH14	Laser-Blue	000-255	0-100% dimmer
CH15	Laser-Strobe	000-002	Strobe Open
		003-255	Strobe Slow-> Fast
CH16	Pattern Choose	000-255	Pattern Choose
CH17	Pattern Group option	000-049	Pattern Choose 1 (Basic geometry)
		050-099	Pattern Choose 2 (Basic geometry)
		100-149	Pattern Choose 3 (Char&Number)
		150-199	Pattern Choose 4 (with lightspot geometry pattern, color controlled by CH17)
		200-255	Pattern Choose 5 (dot patterns)
CH18	Pattern Zoom	000-063	Pattern size option
		064-127	From small to big speed option
		128-191	From big to small speed option
		192-255	Zoom speed option
CH19	Pattern Center Rotate	000-127	Rotation angle option
		128-191	Clockwise rotate speed option
		192-255	Anti-clockwise rotate speed option
CH20	Pattern X Rotate	000-127	Horizontal flip location option
		128-255	Horizontal flip speed option
CH21	Pattern Y Rotate	000-127	Vertical flip location option
		128-255	Vertical flip speed option

**Animation RGB moving laser**

CH22	Pattern X Wave	000-009	No wave
		010-255	Wave range and speed adjust (Rang from small to big, speed from slow to fast, every 32 datas as one step, total 8 step)
CH23	Pattern Y Wave	000-009	No wave
		010-255	Wave range and speed adjust (Rang from small to big, speed from slow to fast, every 32 datas as one step, total 8 step)
CH24	Pattern Drawing	000-001	No Drawing
		002-063	Manual drawing 1
		064-127	Manual drawing 2
		128-153	Auto drawing (Increase)
		154-179	Auto drawing (Decrease)
		180-205	Auto drawing (From increase to decrease-reverse)
		206-231	Auto drawing (From increase to decrease-syntropy)
		232-255	From middle to side drawing(decrease)
CH25	Pattern Color control	000-069	White-Red-Blue-Pink-Cyan-Yellow-Green (Fixed color option)
		070-079	Full color change (Eotic speed controlled by CH16)
		080-089	Default color (Eotic speed controlled by CH16)
		090-114	2 section color option, 5 datas stepping (Eotic speed controlled by CH16)
		115-139	3 section color option, 5 datas stepping (Eotic speed controlled by CH16)
		140-164	4 section color option, 5 datas stepping (Eotic speed controlled by CH16)
		165-189	5 section color option, 5 datas stepping (Eotic speed controlled by CH16)
		190-224	16 section color option, 5 datas stepping (Eotic speed controlled by CH16)
		225-229	Color dynamic eotic 1 (Eotic speed controlled by CH16)
		230-234	Color dynamic eotic 2 (Eotic speed controlled by CH16)
		235-239	Color dynamic eotic 3 (Eotic speed controlled by CH16)
		240-244	Color dynamic eotic 4 (Eotic speed controlled by CH16)
		245-249	Color dynamic eotic 5 (Eotic speed controlled by

**Animation RGB moving laser**

			CH16)
		250-255	Color dynamic eotic 6 (Eotic speed controlled by CH16)
CH26	Pattern Color Change&Chase Speed	000-009	No function
		010-127	Clowckwise eotic, speed from slow to fast
		128-255	Anti-clowckwise eotic, speed from slow to fast
CH27	Lightspot color option	000-255	White-Red-Blue-Pink-Sycan-Yellow-Green (CH7 data 150-199 value)
CH28	Pattern Tracking	000-015	No function
		016-045	Tracking 1, range and speed controlled by CH19
		046-075	Tracking 2, range and speed controlled by CH19
		076-105	Tracking 3, range and speed controlled by CH19
		106-135	Tracking 4, range and speed controlled by CH19
		136-165	Tracking 5, range and speed controlled by CH19
		166-195	Tracking 6, range and speed controlled by CH19
		196-225	Tracking 7, range and speed controlled by CH19
		226-255	Tracking 8, range and speed controlled by CH19
CH29	Pattern Tracking Speed	000-063	Small range tracking, speed from slow to fast
		064-127	Middle range tracking, speed from slow to fast
		128-191	Big range tracking, speed from slow to fast
		192-255	The biggest range tracking, speed from slow to fast
CH30	Pattern Phase	000-063	X+,Y+
		064-127	X-,Y+
		128-191	X+,Y-
		192-255	X-,Y-
CH31	Pattern Dynamic Effects	000-001	No function
		002-213	Inner effects option(stepping data is 4) , total 53 patterns,speed controlled by CH22
		214-255	Effects random with auto, speed controlled by CH22
CH32	Pattern Dynamic Effects Speed	000-127	Color with inner programm, inner effects speed from fast to slow
		128-255	Color with DMX control, inner effects speed from fast to slow

## Animation RGB moving laser

CH33	Reset	000-199	No Funtion
		200-255	Reset(Keep->5S)

## DMX-512 connection

Connect the provided XLR cable to the male 3-pin XLR output of your controller and the other side to the female 3-pin XLR input of the light. then connect the DMX signal to the first fixture to the 2<sup>nd</sup> fixture, after all fixtures are connected,

The signal cable should be two - core with screened cable with XLR input and output connectors. Please refer to the diagram below.

5-Pin DMX output



5in DMX input



1. Ground
2. Signal -
3. Signal +
4. None
5. None

3-Pin DMX output



3in DMX input



1. Ground
2. Signal -
3. Signal +

## DMX address setting

Each fixture must set a specific starting address. When receiving signal, fixture will receive channel control signals of this address from the DMX controller.

For easy to use, the user can set the same address for several fixtures , also can set up a unique address for every device.

If you set the same address for all fixtures, all the fixtures will receive from the same DMX channels signal. All connecting fixtures are jointly controlled, controller can't separately control a device.

If you set a different address for each fixture, each fixture will receive unique signal and can be controlled by DMX controller separately.

This fixture has 33 channels. you should set the starting address of the first unit to 1, the second unit to  $34(1 \times 33 + 1)$ , the third unit to  $67(2 \times 33 + 1)$ , and so on.

## Cleaning and maintenance

Cleaning should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror.



### CAUTION

**Cut off power before cleaning and maintenance!**

## Attention

Do not see directly light source when open the light, and make sure power off before do any installation or maintenance.



### CAUTION!

**Never look directly into the light source,  
as sensitive persons may suffer an epileptic shock.**



### CAUTION

**Wires connection must be done professional person!**

# Warranty Card

This product is made of high-brightness transistor. We will provide 1 year warranty under the condition that user has operated the light normally and lifetime service. We won't provide warranty if the damage is caused by artificial or force majeure event. Cost of fittings should be charged by user if product need maintenance after 1 year .Please cut this warranty card and shipped it along with the product to our factory when applying for warranty.

Product:	Purchasing date:	Code of invoice:
----------	------------------	------------------

Warranty date: From	To
---------------------	----

User's name:	Add:
--------------	------

Company:	Tel:
----------	------