

USER MANUAL

RGBW 4in1

LED Moving Head Beam



Please Read Over This Manual Before Operating The Light Fixture

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Foreword

Thanks for you using The LED moving head light of our Guangzhou Nebula Professional Stage Equipments Co., Ltd. Please read this product manual carefully before using.

Anyone undertake the installation, operation and maintenance of light fixture, should be as follow:

- Required professional qualification & experience
- Comply strictly with the instruction of this manual
- Reserve this manual all the time when using light until it is no longer in use.
- Completely record in this manual when light fixture has occur any change or maintenance

When unpacking and before disposing of the carton, check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

Security indications

Every unit is tested completely before leave the factory, and make sure it in good condition to performance. In order to keep the light in best situation and safety using, please read and comply with the Safe usage instruction & notice of this manual

Very important: If who non-compliance the safe indication of this manual, may cause personal injuries & property damage. This loss no include in the range of quality assurance

If the light fixture has suffered fierce expand with heat and contract with cold (For example, under insolate during transportation), do not turn on the current immediately, because the water arising therefrom will damage the light. Should turn on light until it recover the ambient temperature

This light belong to First-grade protective product, it must use First-grade protective safe jack. Light fixture must be grounded reliably.

Do not connect this light with Dimmer.

Before turn on light, please check and make sure the supply power should not higher the power which marks on the bottom panel; light power switch should turn to off; and

check the power cord whether distorted or damaged by sharper.

Do not let power cord touch other cord directly, and be careful when operate power cord & all joints etc! Only can hold its joints when move power cord. Hold joints then draw carefully from jack when need to cut power, and do not draw cord directly.

Light fixture may cause some fog or smell when turn on power first, that is a normal condition which not denote it has quality problem.

During use the light, its housing will be heated and the part of light temperature is high, that is a normal condition which should not touch it by hand to prevent injured.

Please choose the same type bulb & protective tube when they needed to replace.

Please turn off the light then removal power cord joints when light fixture is nonuse or required maintenance.

At least use 2 safety ropes to install light (height almost 100cm), and ropes must be able to carry tenfold weight of light.

Child & non-professional do not touch light fixture! Professional should watch over light when it using.

This light could not maintained by user, except bulb & protective tube, repairing & maintaining must follow authorized dealer.

If customer change light setting privately, or operate light by non-professional privately, both may cause damage to light or injure yourself & property. Any damage caused by improper use will not be assumed by the manufacturer.

Operating provisions

This LED moving head light is available for stage show, discotheque and other amusement places. It use 200-240 V 50Hz current and only for indoor use.

Please familiar with its specification before operate the light fixture. Check the light appearance & housing carefully, to confirm whether it install stability or screws tight or not.

This light use Gas Discharge bulb, and do not turn on the current before install suitable bulb.

Please do not shake the light fiercely when install or operate which should avoid force.

When move the light, should raise its handle beside bottom to avoid strike other part. Especially do not raise its head or rocker because improper operate will damage light.

The light should prevent to be exposing under too heat, wet or dust environment during install, and do not lay too many cord around light, otherwise it may endanger

yourself or others.

Keep the distance at least 1 m between light and receiving surface.

Whatever install, uninstall or repair, please insure enclose the light bottom properly.

At least use 2 safe cords and safe cord can not use the same lifting hole with light hook.

Environment temperature can not higher 45°C, otherwise bulb will turn off and light also stop work 5 minutes.

Not allow non-professional operate light because most of damage to light due to this non-professional operate.

If light need shipment transport, please use original packing include box and polystyrene.

Forbid to change any light setting with no authorization for security consideration.

Operate light in other way which different to this manual declaration, light may suffer damage, and cause its quality invalidation. Even this may induce short circuit, burning or shut down etc.

Technical specification

Feature

Lamp:10w(RGBW 4in1) 4pcs led high brightness lamp

Lifetime:6000 hours

Voltage:AC 90-220V, 50-60HZ

Rated power:80 watt

Channel:16/45 CH

Strobe:1-25hz

X/Y:540 270 with pan/tilt fine

Lens:8 degree

Dimmer:1-100% liner dimmer

IP 20

Mode:DMX 512,sound,auto,Mast-slave

Function:4 pieces mini led moving head with one, 4 beam can be parallel。 Every mini led moving head can be sole controlled, XY, dimmer, strobe, XY speed。

NW: 11 KGS

GW: 14 KGS

Dimension: 80*9*25 cm

Controller choose function 16channels

16channel

4 head beam bar CH16 mode channel list			
channel	function	channel value	description
CH1	total dimmer	0	fixture stop closing lighting and stop macro function
		1-255	when 0,light brightness ratio control,0%~100%
CH2	choose light	0	All
		51-100	Light 1
		101-150	Light 2
		151-200	Light 3
		201-255	Light 4
CH3	X	0-255	
CH4	Y	0-255	
CH5	XY speed	0-255	XY speed adjustment,from fast to slow
CH6	R	0-255	
CH7	G	0-255	
CH8	B	0-255	
CH9	W	0-255	
CH10	strobe	0-3	no
		4-255	strobe, from slow to fast
CH11	macro function	0-15	no
		16-35	macro1_light flowing(jump change) (XY controllable)
		36-55	macro2_light flowing(gradual change) (XY controllable)
		56-75	macro3_light RGB gradual change(XY controllable)
		76-95	macro4_light flowing+strobe(XY controllable)
		96-115	macro5_macro 1~macro 4(XY controllable)
		116-135	macro 6_XY auto 1(light controllable)
		136-155	macro 7_XY auto 2(light controllable)
		156-175	macro 8_XYauto 1+light
		176-195	macro 9_XY auto 2+light
		196-215	random auto
216-235	macro9 sound		
236-255	random sound control		
CH12	macro speed	0-255	macro function adjustment,from slow to fast

CH13	X fine	0-255	
CH14	Y fine	0-255	
CH15	dimmer speed	0-255	from slow to fast
CH16	reset	0-249	no effect
		250-255	stay five second all motors reset

45channels

4 head beam bar CH45 mode channel list

channel	function	channel value	description
CH1	X1	0-255	
CH2	Y1	0-255	
CH3	XY1 speed	0-255	XY speed, from fast to slow
CH4	strobe 1	0-3	no
		4-255	strobe, from slow to fast
CH5	R1	0-255	
CH6	G1	0-255	
CH7	B1	0-255	
CH8	W1	0-255	
CH9	X2	0-255	
CH10	Y2	0-255	
CH11	XY2 speed	0-255	XY speed, from fast to slow
CH12	strobe 2	0-3	no
		4-255	strobe, from slow to fast
CH13	R2	0-255	
CH14	G2	0-255	
CH15	B2	0-255	
CH16	W2	0-255	
CH17	X3	0-255	
CH18	Y3	0-255	
CH19	XY3 speed	0-255	XY speed, from fast to slow
CH20	strobe 3	0-3	no
		4-255	strobe, from slow to fast
CH21	R3	0-255	
CH22	G3	0-255	
CH23	B3	0-255	
CH24	W3	0-255	
CH25	X4	0-255	

CH26	Y4	0-255	
CH27	XY4 speed	0-255	XY speed, from fast to slow
CH28	strobe 4	0-3	no
		4-255	strobe, from slow to fast
CH29	R4	0-255	
CH30	G4	0-255	
CH31	B4	0-255	
CH32	W4	0-255	
CH33	X1 fine	0-255	
CH34	Y1 fine	0-255	
CH35	X2 fine	0-255	
CH36	Y2 fine	0-255	
CH37	X3 fine	0-255	
CH38	Y3 fine	0-255	
CH39	X4 fine	0-255	
CH40	Y4 fine	0-255	
CH41	total dimmer	0	fixture stop closing lighting and stop macro function
		1-255	when 0,light brightness ratio control,0%~100%
CH42	dimmer speed	0-255	from slow to fast
CH43	macro function	0-15	no
		16-35	macro1_light flowing(jump change) (XY controllable)
		36-55	macro2_light flowing(gradual change) (XY controllable)
		56-75	macro3_light RGB gradual change(XY controllable)
		76-95	macro4_light flowing+strobe(XY controllable)
		96-115	macro5_macro 1~macro 4(XY controllable)
		116-135	macro 6_XY auto 1(light controllable)
		136-155	macro 7_XY auto 2(light controllable)
		156-175	macro 8_XY auto 1+light
		176-195	macro 9_XY auto 2+light
		196-215	random auto
		216-235	macro9 sound
236-255	random sound control		
CH44	macro function speed	0-255	macro function adjustment,from slow to fast
CH45	reset	0-249	no effect
		250-255	stay five second all motors reset

Using construction

first Menu	second Menu	value	remark
d.001(DMX address)		1-512	
MANU	P.000(Pan)	0-255	overall
	T.000(Tilt)	0-255	
	R.000(Red)	0-255	
	G.000(Green)	0-255	
	B.000(Blue)	0-255	
	W.000(White)	0-255	
	S.000(Strobe)	0-255	
AUTO	At.50	0-99	built-in program auto, 0-99 speed fast to slow
	rd.50	0-99	random auto, 0-99 speed fast to slow
SOUD	At.		built in program, one sound beat one step
	rd.		random, one sound beat one step
SET	CH.16	16/45	channel mode choice
	EC.On	off/on	coding wheel
	rP.of	off/on	pan reverse
	rt.of	off/on	tilt reverse
CAL(reset adjustment)	P1.50	0-99	50 means no fine
	t1.50	0-99	
	P2.50	0-99	
	t2.50	0-99	
	P3.50	0-99	
	t3.50	0-99	
	P4.50	0-99	
t4.50	0-99		
Sen(coding wheel monitoring)	P1.00	99.-99	show the 2 bit LSB of coding wheel reading, Measuring range is (-65535, 65535), show value range is (-99, 99), "99." means -99. if Y decided by Hall, then shows t1.01 or t1.00,"01" means
	t1.00	99.-99	
	P2.00	99.-99	
	t2.00	99.-99	
	P3.00	99.-99	
	t3.00	99.-99	
	P4.00	99.-99	

	t4.00	99.-99	detected magnetism, "00"means not detected magnetism
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Connect multiple fixtures

Note: Avoid twisted cables, especial the signal wire and power wire, either close to each other. Otherwise, the projector may not work normally

Connect multiple fixtures with 3 round pin/XLR plug of shielded signal, or directly connect to DMX512 controller.

XLR plug and socket: this projector has a 3 round pin/XLR socket, 3 round pin/XLR plug of shielded signal can be used when it connects. If the controller has the same 3 round pin/XLR socket, you can connect the DMX signal output of controller to DMX signal input of projector with distributive signal cables. If the controller have other output/input sockets. for example, 5 round/XLR socket, you must need to buy or make adapter cable. As follow Master-slave synchronic chain/DMX512 Chain: connect the first fixture's DMX output cable to the second fixture's DMX input cable with a signal cable, connect the second fixture's DMX output cable to the third fixture's DMX input cable, eventually, and connect the last fixture's output cable. if connect the first DMX512 controller to the first projector's DMX input, then will form a DMX512 chain, if the first projector doesn't connect with any DMX controller, then it will can be the master, also, all the projectors are the master, then there will be a master-slave synchronic chain.

Note! The last fixture, DMX output should connect with a signal plug, there is a 12000M resistor between the second and the third pin of 3 round pin/XLR socket, and it will form a signal plug.

1. DMX initial address settings

Control panel which on the base of the projector is used for operating this projector, including DMX 512 initial address setting and so on. this address is the first channel of the DMX512 controller

There are 16 channels, if the initial address is the first channel, then the projector should use the 1st channel to 16th channel, and the first channel of the second projector should be 17th channel. Avoid repeatedly, make sure each projector independently and accurately control

With the same initial address of projectors, keep in synchronism

Initial address settings as follow:

---press< ESC> until there is (A001) or (AXXX) on the display

---press<ENTER>, A will be disappear

---press on or down, choose what initial address you want.

---press <ENTER> to save what your choose, if not, press < ESC>

Cleaning and Maintenance

Note should cut off the power before to clean and maintaining of the projector. Do not use the projector if the lens is damaged, such as crack or scratch and so on, make sure to keep its normal functions

Users should keep taking a full testing for the light security & installation every year by an empirical person and each four years by the specialist.

When make the testing, should consider the following:

1. the screws, bolts of this projector should be locked, and not corrupted
2. Should not any deformation at the case. Fixing or installation's joining(including the ceiling ,lantern support and so on)
3. The accessory of mechanical such as axle, rocker must not allow to be wearing, and also no unbalanced rotation.
4. the power cable should not be damaged, cracked and so on, if so, should change a new one

The lens and fan should be cleaned one time each month, to make sure its function Gobo flat, gobo wheel should be cleaned one time each month by soft brush Soft cloth and typical glass cleaning products should be used for cleaning, do not use any organic solvent, e.g. alcohol.

To keep the rotation smoothly, suggest putting some lubricating oil to gobo wheel each three months, the quantity of lubricating oil should be less, avoid spilling over. Color wheel, color flat, and the inter lens of the projector should be cleaned one time each month

There are not user serviceable parts inside the projector except the lamp and fuse.

Pls uses the same model and standards fuse when replace it

Only the authorized distributor can maintain and service the projector

If in need of any accessories, pls get it from the original factory.

Please ask advice in case of doubts

Appendix

Technical specification

Weight and size

Length-----800mm
Width-----200mm
Height-----250mm
Weight-----11.5kg

Power

Voltage-----100V/240V 50/60HZ
Power Consumption-----80W

Lamp

LED-----10W RGBW 4in1 led
Color temperature-----6500K

Illumination

Degree -----8°

Range

Pan-----540°
Tilt-----210°

Heat

Max temperature-----40°C

Control and program

Data input-----3-pin XLR (anode)
Data output-----3-pin XLR (cathode)
DMX channels-----16/45

Warranty -----one year