



User Manual

Please read the instruction carefully before use

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01/ Safety Information

Please keep this User Manual for future consultation. If you sell the unit to another user, be

sure that they also receive this instruction manual.

Important:

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 problems.

Unpack and check carefully to ensure that there is no transportation damage before using the unit.

This product is suitable for wet locations. Do not immerse in water.

DO install and operate by qualified operator.

DO NOT allow children to operate the fixture.

Use safety chain (made of steel, min. diameter 4.0mm) when fixing the unit. Handle the

unit by carrying its base instead of head only.

The unit must be installed in a location with adequate ventilation, at least 50cm from

adjacent surfaces.

Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.

Before operation, ensure that you are connecting this product to the proper voltage in

accordance with the specifications in this manual or on the product's specification label.

It's important to ground the yellow/green conductor to earth in order to avoid electric

shock.

Minimum ambient temperature TA: -10°C. Maximum ambient temperature TA: 40°C. Do

not operate this product at a lower or higher temperature.

DO NOT connect the device to any dimmer pack.

Keep flammable materials away from the fixture while operating to avoid fire hazard.

Make sure the power cord is not crimped or damaged; replace it immediately if damaged.

Unit's surface temperature may reach up to 70°C. DO NOT touch the housing bare-handed during its operation.

Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut

off the mains power immediately.

DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.

DO NOT touch any wire during operation as there might be a hazard of electric

shock.

Avoid entanglement of the power cord with other wires.

The minimum distance to objects/surface must be more than 4 meters.

In the event of serious operating problem, stop using the unit immediately.

Never turn on and off the unit time after time.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

DO NOT open the housing as there are no user serviceable parts inside.

DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.

Disconnect this product from its power source before servicing.

DO use the original packaging if the device is to be transported.

Check that the head tilt lock is released before packing for transportation.

Avoid direct eye exposure to the light source while the product is on.

DO NOT operate this product if you see damage on the housing, shields, or cables.

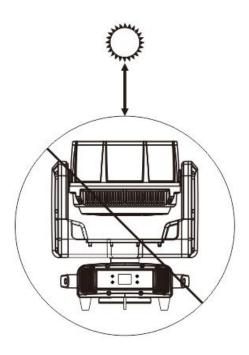
Have

the damaged parts replaced by an authorized technician at once.

External sources of light beams from direct sunlight or any other strong light source, which penetrate the front lens of lighting fixtures, can cause severe internal damage. DO

NOT expose the fixture front lens to light beams from direct sunlight or any other strong

light source from any angle while unpacking, installation, use, and extended idle times outdoors. DO NOT focus a light beam from one lighting fixture directly towards another.



02/ Technical Specifications

Input voltage: AC100-240V 50/60Hz

Power consumptionn: 400W LED QTY: 19*20RGBW(4IN1)pc Average lifespan: 50000 hours

Beam angle: 4°-38°

Electronic Dimming: 0-100%

Strobe: 1S/25 Focus: Yes Rotate: Yes Pan: 540° 16bits

Tilt: 270° 16bits

DMX channel: 23CH/25CH/36CH

Control mode: DMX /RDM

Display mode: LED IP rating: IP20

Max ambient temp: 45°

Product dimension: 330*260*440mm

N.W: 12kG

03/ Connecting Power and Data

To apply power, first check that the head pan and tilt locks are released.

This fixture can operate on any 180-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 760W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power

supply must incorporate a fuse or circuit breaker for fault protection.

Wiring and connection work must be carried out by a qualified electrician.

The power cable color coding is given in the figure below:

Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
_	black		brown	L	live
	white		blue	N	neutral
	green		yellow/green	± or ⊕	ground (earth)

Power cord set should be used: Listed SJOW flexible cord with rating: 300V, 105°C, VW-1,

14AWG x 3C, molded with 5-20P attachment plug and terminated with cord connector model RCAC3F-X-000-01 with rating 250V, 16A by Neutrik Technology (Ningbo) Co., Ltd.

The power cord shall be at least 914mm (It is to be measured from the face of attachment

plug to the face of connector).

CAUTION!

DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

04/ Connecting Data

The fixture is equipped with 5-pin (or 3-pin) XLR sockets for DMX input and output. Use a

high-quality DMX cable designed for RS-485 and 5-pin (or 3-pin) XLR-plugs and connectors

in order to connect the controller with the fixture or one fixture with another. For outdoor

installations, use only IP-rated XLR connectors suitable for outdoor use. Building a serial DMX chain:

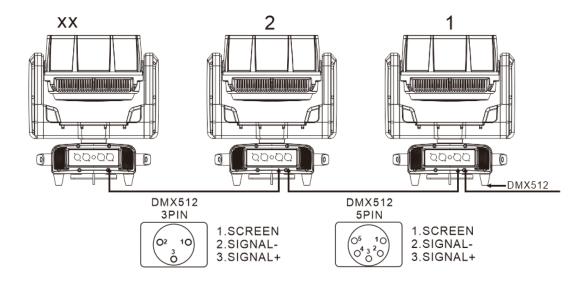
Connect the DMX data output from the controller to the fixture's data input socket. Connect

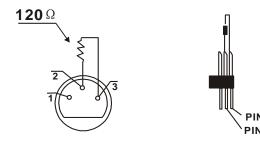
the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture.

Always connect one output with the input of the next fixture until all fixtures are connected.

Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of

the last fixture in the data link with a 120 ohm DMX terminator.





05/ Address Setting

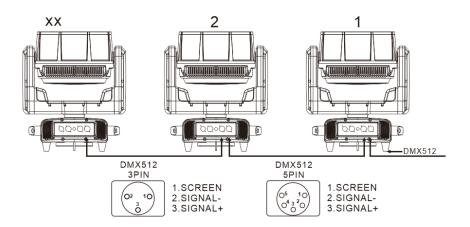
All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will "listen" starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, if the first fixture is set to 43 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of 44. As the first fixture uses all the first 43 DMX channels, the next available channel is 44 (43+1=44 >> 44). See the chart below for more details:



Channel	Unit 1	Unit 2	Unit 3	Unit 4	Unit xxx
Mode	Address	Address	Address	Address	Address
43 channels	1	44	87	130	
34 channels	1	35	69	103	
32 channels	1	33	65	97	
23 channels	1	24	47	90	

06/ Overview



• 1. Display	To show the various menus and the selected function		
• 2. Buttons	MENU	To enter into move backward or leave the menu	
	UP	To go backward to move up in the menu	
	DOWN	To go forward to move down in the menu	
	ENTER	To perform the desired functions	

Menu key: enter/return to the main menu.

Up key: menu function up selection/parameter increment.

Down key: menu function down selection/parameter decreasing.

Enter key: select the menu function, and confirm and save it when the menu function parameters are modified.

Second, the menu function

After the machine is powered on and reset, press the menu key to enter the main menu (exit after 30 seconds of no operation in the main menu interface). See the main menu menu (5 main menu options in total) for details. Press the Up or Down key to select the main menu, enter the Enter key to modify the function parameters of each menu, and then press the Enter key to save the current function parameters after modification (with power-off memory after saving).

07/ Display and operation

primary menu	submenu	Menu function description
1110214		Modify the DMX address code up or down (the optional range
	1. DMX address	of address code is 001-512), and press the Enter key to save. The
		default value is 001.
		Modify the encoder on/off up or down, save the confirmation
1. System	2. Encoder	key and turn it on by default.
Settings		Modify the X-reversal on/off up or down, and confirm to save,
	3. X inversion	which is closed by default.
		Modify Y-turn on/off up or down, and confirm to save, which is
	4. Y inversion	closed by default.
	5. Advanced Settings	
	Operation mode	Select the running mode DMX/ Voice Control/Auto up or
	1. Operation mode	down, and press the Enter key to save. The default DMX
2. Operation		is selected.
-	2. Channel selection	Select channels CH22, CH23, CH25, CH36, CH78,
mode	2. Chamer selection	CH92, CH97, CH99, CH101 up or down, and confirm
		to save. The default is CH25.
	1、X	Modify the operating parameter value of X motor up or
		down (adjustable range 000-255), and press the Enter key
		to save. The default value is 000.
	2, X fine tuning	Modify the fine-tuning parameter value of X motor up or
	2, 11 Time tuning	down (adjustable range 000-255), and press the Enter key
		to save. The default value is 000.
	3、Y	Modify the operating parameter value of Y motor up or
		down (adjustable range: 000-255), and press the Enter
		key to save; the default value is 128.
	4, y fine-tuning	Modify the fine-tuning parameter value of Y motor up or
3. Manual	i, y ime taning	down (adjustable range: 000-255), and press the Enter
control		key to save; the default value is 000.
Control	5, XY speed	Modify the operating speed parameter value of XY motor
	o, iii speed	up or down (adjustable range: 000-255), and press the
		Enter key to save; the default value is 000.
	6, focusing	Modify the operation parameter value of the focusing
	o, rocusing	motor up or down (adjustable range 000-255), and press
		the Enter key to save, and the default value is 000.
	7. Turn the mirror	Modify the parameter value of the rotating mirror up or
	7. Turn the mirror	down (adjustable range 000-255), and press OK to save.
		The default value is 000.
	8. Dimming	Modify the dimming parameter value up or down
	o. Dimining	(adjustable range: 000-255), and press the Enter key to
		radiasmore range. 000 255), and press the Enter Rey to

	save; the default value is 255.
9, stroboscopic	Modify the strobe parameter value up or down (adjustable
1	range 000-255), and press the Enter key to save. The
	default value is 000.
10. The foreground is red	Modify the red current value up or down (adjustable
100 1110 1010ground is 100	range: 000-255), and press the Enter key to save; the
	default value is 255.
11. The foreground is green	Modify the green current value up or down (adjustable
11. The foleground is green	range: 000-255), and press the Enter key to save; the
	default value is 255.
12. The foreground is blue	Modify the blue current value up or down (adjustable
12. The foleground is olde	range: 000-255), and press the Enter key to save; the
	default value is 255.
13. The foreground is white	Modify the white current value up or down (adjustable
13. The foleground is white	range: 000-255), and press the Enter key to save; the
	default value is 255.
14. Color temperature	Modify the color temperature up or down (adjustable
14. Color temperature	range 000-255), and press OK to save. The default value
	is 000.
15 Droing	
15. Dyeing	Modify the color dyeing value up or down (adjustable
	range: 000-255), and press the Enter key to save; the default value is 000.
16, desalination	Modify the color fade value up or down (adjustable range
10, desaination	000-255), and press OK to save; the default value is 000
17. Translation	Modify the translation value up or down (adjustable
17. Hansiation	range: 000-255), and press the Enter key to save; the
	default value is 000.
18. Patterns	Modify the color dyeing value up or down (adjustable
16. I atterns	range: 000-255), and press the Enter key to save; the
	default value is 000.
19. Moving pictures	Modify the color animation up or down (adjustable range
19. Moving pictures	
	000-255), and press the Enter key to save; the defaul value is 000.
20. Smood	
20. Speed	Modify the speed up or down (adjustable range 000-255)
21 The headenment enter	and press the Enter key to save. The default value is 000
C	is Modify the red current value up or down (adjustable
red	range: 000-255), and press the Enter key to save; the
22 Tl 1 1 1 1	default value is 000.
_	is Modify the green current value up or down (adjustable
green	range 000-255), and press the Enter key to save. The
22 77 1 1 1 1 1	default value is 000.
_	is Modify the blue current value up or down (adjustable
blue	range: 000-255), and press the Enter key to save; the

		default value is	000
	_	-	te current value up or down (adjustable
			, and press the Enter key to save. The
		default value is	
	25, reset		ameter value is 150-255, the whole
			et. The parameter value of the console
		_	below 10 before it is pushed to 150-255.
		-	value is useless when it is 000-149, so
		it cannot be res	
			EN (English) up or down, and press the
			e. The default is Chinese.
4 5: 1		_	own to turn off/on the reverse display
4. Display			ss the Enter key to save, which is turned
settings		off by default.	
			open screen saver setting up or down, and
			it, which is turned on by default.
		06MC	
5.	71 &	close	
Information		9999:00	
		0000110	
	Please enter the password for		Modify the parameter up or down (range
	display! Change it to 138 up		000-255), and confirm to save it. The
	or down, and then press the		default value is 128.
	Enter key to enter the factory		Modify the parameter up or down (range
	settings.		000-255), and confirm to save it. The
			default value is 128.
		_	Modify the parameter up or down (range
			000-255), and confirm to save it. The
			default value is 128.
		4, focusing	Modify the parameter up or down (range
6. Factory		stroke	000-255), and press the Enter key to
Settings			save. The default value is 128.
Settings		5, rotary	Modify the parameter up or down (range
		calibration	000-255), and confirm to save it. The
			default value is 128.
		6. Red	Modify the red light bulb current (032-
			255) up or down, and press the Enter key
			to save. The default value is 252.
		7. Green	Modify the green light bulb current up or
			down (032-255), and press the Enter key
			to save. The default value is 252.
		8. Blue	Modify the blue light bulb current up or
			down (032-255), and press the Enter key

	to save. The default value is 252.
9. White	Modify the white light bulb current up or
	down (032-255), and press the Enter key
	to save. The default value is 252.
10. Current	Select 000 /007 up or down, and confirm
	to save. The default value is 004.
11. Speed	Modify the speed parameter (range 001-
	007) up or down, and press OK to save.
	The default value is 000.
12、Logo	Select 000 /001 up or down, and confirm
	to save. The default value is 000.
	Modify the temperature parameter (range
13. Temperature	045-075) up or down, and confirm to
	save it. The default value is 065.
1.4 T	Select up or down to turn off/on the fan
14. Temperature-	control, and press the Enter key to save,
Fan	which will be turned off by default.
15、LED	LED-A/LED-B

Third, master-slave control

There are two or more identical lamps connected by DMX three-core signal lines, all lamps are modified to any address code of 001~512, and any one is set as the master, while other lamps are slaves, and all slave displays do not flicker; When the master adjusts the effects of gradual change, pulse change, jump, voice control and self-walking, all slaves synchronize the effects of gradual change, pulse change, jump, voice control and self-walking.

Special attention: 1. Only one host can be set for a group of lamps. If there are multiple hosts, all lamps will flash without synchronization.

2. All lamps and lanterns must be used when the DMX512 console is closed.

Fourth, DMX512 control

Address codes of all lamps and lanterns are set, and all lamps and lanterns are connected to the DMX512 console in parallel with DMX three-core signal lines. The address code stops flashing, indicating that the DMX512 console signal has been sent to the lamps and lanterns. According to the channel description, the DMX512 console is used to control related functions.

08/ DMX Protoco

CH23.CH25-CHANNEL MODE:

CH23	CH25	Function	Value	Instruction
1	1	Х	0-255	
2	2	X fine	0-255	
3	3	Υ	0-255	
4	4	Y fine	0-255	
5	5	XY speed	0-255	From fast to slow
6	6	Zoom	0-255	
7	7	Rotate	0-255	Endless rotation from slow to fast
8	8	Total dimmer	0-255	0-100%
9	9	Strobe	0-255	high speed random strobe
10	10	Red	0-255	0-100%
11	11	Green	0-255	0-100%
12	12	Blue	0-255	0-100%
13	13	Whit	0-255	0-100%
14	14	Color temp adjust	0-255	3200K-6500K
15	15	Marco color	0-255	Inner color change
	16	Pattern fading	0-255	
	17	Pattern translation	0-255	
16	18	Static effect	0-255	
17	19	Dynamic effect	0-255	no function
18	20	Dynamic effect speed	0-255	From fast to slow

19	21	Background red	0-255	0-100%
				0-100%
20	22	Background green	0-255	
21	23	Background blue	0-255	0-100%
				0-100%
22	24	Background white	0-255	
		·		No function
22	25	D I	0-249	
23	25	Reset		
			250-255	All reset after 5s

CH36. -CHANNEL MODE:

СН36	Function	Value	Instruction
1	Red	0-255	0-100%
2	Red fine	0-255	
3	Green	0-255	0-100%
4	Green fine	0-255	
5	Blue	0-255	0-100%
6	Blue fine	0-255	
7	white	0-255	0-100%
8	White fine	0-255	
9	Color temp adjust	0-255	3200K-6500K
10	Color macro	0-255	Inner color change
11	Strobe	0-255	open
12	Total dimmer	0-255	0-100%
13	Total dimmer fine	0-255	
14	Х	0-255	pan

1.5	V fine	0-255	Pan fine
15	X fine	0-255	Pari line
16	Υ	0-255	Tilt
17	Y fine	0-255	Tilt fine
18	Marco function	0-255	No function
19	Reset	0-249	No function
		250-255	full reset after 5s
20	Zoom	0-255	
21	Lens rotation	0-255	
22	Pattern rotation	0-255	
23	Pattern effect speed	0-255	
24	Fading of pattern effect	0-255	
25	Red	0-255	0-100%
26	Green	0-255	0-100%
27	Blue	0-255	0-100%
28	White	0-255	0-100%
29	Pattern dimming	0-255	0-100%
30	Background dimming	0-255	0-100%
31	Pattern change	0-255	
32	Pattern translation	0-255	
33	Foreground flicker (inversion)	0-255	
34	Background strobe (inversion)	0-255	
35	Background Selection (Inverted)	0-255	
36	empty	0-255	

09/ Troubleshooting

Problem	Potential cause(s)	Remedies
Fixture does not respond	No power to the fixture.	Confirm that the power is
or appears to be off.		switched on and cables are
		plugged in.
	No output from PSU.	Replace the PSU.
Fixture suddenly turned	Power was turned off.	Check the power supply,
off.		switches
		and breakers
Light output cuts out	Fixture is too hot.	Check fixture's stored error
intermittently.		messages for more
		information.
		Allow fixture to cool.
		Clean fixture.
		Reduce ambient temperature.
Fixture suddenly stopped	DMX cables were	nspect DMX cables.
responding.	disconnected.	
Fixture operates	Incorrect DMX address or	Inspect and enter the correct
irregularly / abnormal.	DMX mode.	DMX
		address or mode
	DMX link is not	Install a XLR 120ohm DMX
	terminated.	termination at the end of the
		DMX link.
	Bad data link.	Replace or repair defective
		cables
		and/or connections
	One of the fixtures is	Track and isolate the
	defective and is disturbing	corrupted
	data transmission on the	fixture.
	link.	Have the fixture serviced by a
		qualified technician.
Pan / tilt is skipping /	Pan/ tilt locks are not	Release the pan / tilt locks
shuddering	released.	
	Obstacles are within the	Inspect and remove any
	required pan / tilt	obstacles
	clearance.	constraining free operation of
		the
		pan / tilt.
	The Hall element is	Replace the Hall element
	damaged	
	The magnetic steel fell	Replace the magnetic steel
	out	

10/ Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt,

smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability.

Cleaning schedules for lighting fixtures vary greatly depending on the operating environment.

It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental

factors that may result in a need for frequent cleaning include:

Use of smoke or fog machines.

High airflow rates (near air conditioning vents, for example).

Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation. Follow these precautions when cleaning the fixture:

Work in a clean, dry, well-lit area.

Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a

mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and

easily scratched.

