

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.

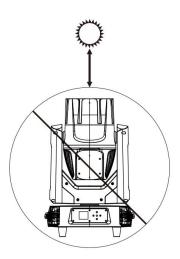
Have

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

Voltage: 100-240V, 50/60HZ;
 Power Consumption: 450W;
 Lamp: Chinese lamp 380W

4. DMX Channel: 16CH

5. Operation mode: master-slave/DMX/Auto

6. strobe:25Hz 7.Beam angle: 2.8°

8. rotating gobo wheel: 12 gobos+open+ 5 glass gobos

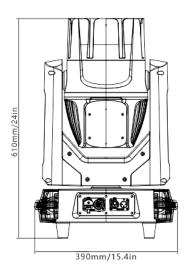
9. Color: 14 colors+open 10.Prism 1: 12-facet 11.Prism 2: 8+16-facet 12. Pan: 540°(16bits) 13. Tilt: 270°(16bits)

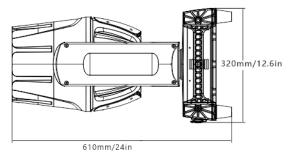
14. RDM: Yes

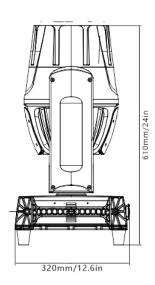
15. Display: LCD touch screen

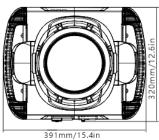
Product dimension: 610*391*320 mm

N.W: 26kG

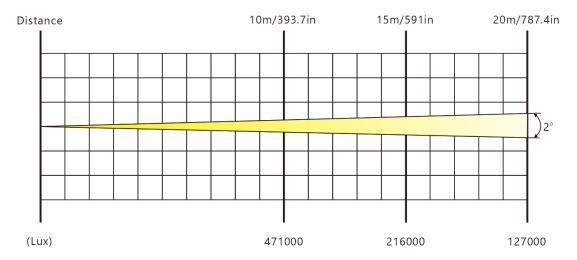








Photometric Diagram:



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 4500W.

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
l	_	black		brown	L	live
l		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:

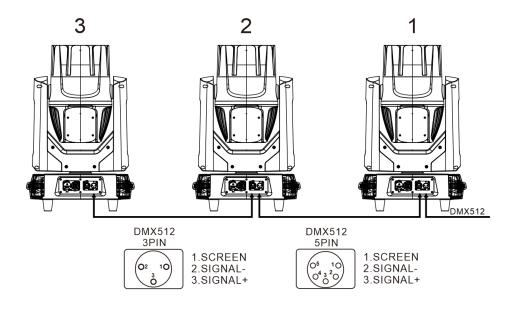
Connect the DMX data output from the controller to the fixture's data input socket. Connect

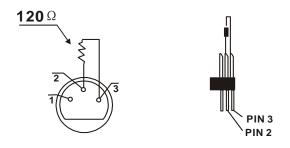
the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture.

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

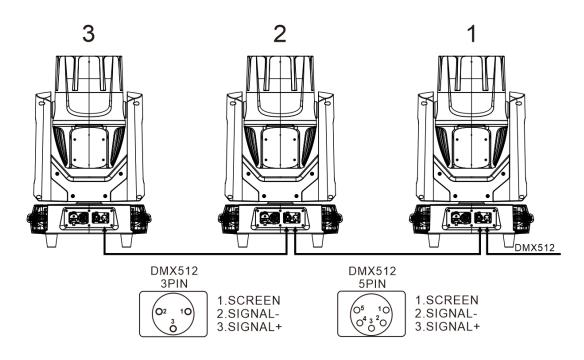
All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

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.

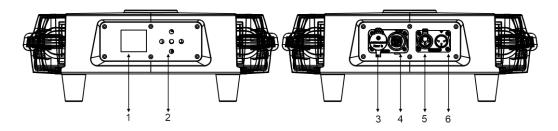
If you set each fixture to a different DMX address, each unit will "listen" starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

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		
• 3. DMX IN	_	R cable to link the unit and DMX al (optional with 3-pin IP XLR)		
● 4. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output			
	DMX signal (option	al with 3-pin IP XLR)		
• 5 POWER IN	To connect to supply power			
• 6 POWER OUT	To connect to	To connect to supply power		

07/ Display and operation

Main menu	Sub-MENU	Parameter			
Press <ok> button</ok>	Press <ok> button 5s till open display, select password <1,2,3,4> to unlock display.</ok>				
Advanced	Advanced setting should	l approval			
	Default set	Set address code			
	Address	Select DMX control mode			
		effect wheel automatically finds			
	DMX mode	the shortest distance to rotate and			
		run			
	Effect mode	Choose to turn the bulb "on" or			
	Lifect mode	"off" each time			
	Started lamp	Turn on the lamp manually			
		Keep DMX value or clear DMX			
	Switch lamp	channel value when no DMX			
		signal			
	No signal	Choose screen menu color			
O4	UI Color	Display the runtime timer on the			
Standard		main screen			
	Show time	Adjust screen brightness			
	Brightness				
	Effec sync	Turn off the screen when no touch			
		and key operation			
	Screensaver	Cancel or use the XY auto-			
		correction function			
	XY encoder	Select X-axis to run forward or			
		reverse			
	X inversion	Select Y-axis to run forward or			
		reverse			
	Y inversion	Choose to run the focus forward			
		or reverse			
	Focus inversion	Choose to run the Zoom forward			
		or reverse			
	Error List	If there are no errors or there are			
	Dieploy Ver	errors, click OK to view the errors			
		Display version information Mainboard version information			
		Equipment factory number			
Info	313 uniei	Total system running time (hours)			
	Run timer	Running time after this power-on (hours)			
	Lamp timer	The total time of lamp on (hours)			
	Effec sync Screensaver XY encoder X inversion Y inversion Focus inversion Error List Display Ver Mainboardv Serial NO. SYS timer	The total time of famp on (nours)			

	Permission	
		The temperature of the main part
	Equip TEMP	(requires device support)
	II ITEMP	The temperature of the head
	Head TEMP	(requires device support)
	EAN 1 Speed	fan 1 speed (requires equipment
	FAN 1 Speed	support)
	FAN 2 Speed	fan 2 speed (requires equipment
	TAN 2 Opecu	(requires device support) The temperature of the hear (requires device support) fan 1 speed (requires equipmer support) fan 2 speed (requires equipmer support) fan 3 speed (requires equipmer support) fan 4 speed (requires equipmer support) Run selected programs Auto or Sound orDMX Set the speed of Auto running Set run cross for Auto or Sound built-in test program 1 built-in test program 2 User-programmed program 3 User-programmed program 3 User-programmed program 4 (reserve) (reserve) (reserve) Adjust the sound control sensitivity n up to 4 user programs, and the ries, that is to say, the programmed to ON at the same time in the "User-
	FAN 3 Speed	fan 3 speed (requires equipment
	1744 0 Opecu	support)
	FAN 4 Speed	fan 4 speed (requires equipment
	·	support)
	Pon Coder	
	Tilt Coder	
	Run mode	Run selected programs Auto or
	Run speed	
	Run cross	Set run cross for Auto or Sound
	Built-in 1	· •
	Built-in 2	· · ·
5 (User PRO 1	User-programmed program 1
Perform	User PRO 2	User-programmed program 2
	User PRO 3	
	User PRO 4	User-programmed program 4
	Circle shape	(reserve)
	Square shape	(reserve)
	Shape range	(reserve)
	Sound DB	Adjust the sound control
		<u> </u>
Program	This function can program	up to 4 user programs, and the 4
	programs can be run in series, that is to say, the progr	
	programs can be switched to ON at the same time in the	
	Pro" function. Go to program 2, go to program 3, then progr	
	then loop back to program 1, and so on. Of course, it can also be	
	run as a single option.	
Reset	Reset to initial position	
Language	English/ Chinese	

08/ DMX Protoco

CH19-CHANNEL MODE:

CH1 9	Function	Value	Instruction
CH1	Color whee	030 - 034 035 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074	Color 1+color 2 Color 2 Color 2+color 3 Color 3 Color 3+color 4 Color 4 Color 4+color 5 Color 5 Color 5 Color 6 Color 6 Color 6 Color 7 Color 7 Color 7 Color 8 Color 8 Color 8+color 9
CH2	Strobe	000-003 004-103 104-107 108-207 208-212 213-251	Shutter closed Strobe from slow to fast Open the shutter Pulse strobe from slow to fast Open Random strobe from slow to fast

		252-255	Open → (controlled by the dimming
			channel)
СНЗ	Dimmer	000-255	dimmer from dark to bright
		000 - 004	3
		005 - 009	White
		010 - 014	gobo 1
		015 - 019	gobo 2
		020 - 024	gobo 3
		025 - 029	gobo 4
		030 - 034	gobo 5
		035 - 039	gobo 6
		040 - 044	gobo 7
		045 - 049	gobo 8
		050 - 054	gobo 9
		055 - 059	gobo 10
		060 - 064	gobo 11
		065 - 069	gobo 12
		070 - 074	gobo 13
		075 - 079	gobo 14
		080 - 084	gobo 15
		085 - 089	gobo 16
		090 - 129	gobo 17
CH4	Gobo	130 - 134	Forward flow (from slow to fast)
		135 - 169	Stop
		170 - 174	Reverse flow (from fast to slow)
		175 - 179	gobo 1 shake slow to fast
		180 - 184	gobo 2 shake slow to fast
		185 - 189	gobo 3 shake slow to fast
		190 - 194	gobo 4 shake slow to fast
		195 - 199	gobo 5 shake slow to fast
		200 - 204	gobo 6 shake slow to fast
		205 - 209	gobo 7 shake slow to fast
		210 - 214	gobo 8 shake slow to fast
		215 - 219	gobo 9 shake slow to fast
		220 - 224	gobo 10 shake slow to fast
		225 - 229	gobo 11 shake slow to fast
		230 - 234	gobo 12 shake slow to fast
		235 - 239 240 - 244	gobo 13 shake slow to fast
			gobo 14 shake slow to fast
		245 - 249 250 -	gobo 15 shake slow to fast
		250 -	gobo 16 shake slow to fast gobo 17 shake slow to fast
		000-31	no prism
CH5	Prism1	32-255	prism 1
		02-200	рпош і

		000 107	Driam angle adjustment
	D.:: 4	000-127	Prism angle adjustment
CH6	Prism1	128-190	Reverse rotation (fast to slow)
rotation		191-192	Stop
		193-255	Forward rotation (slow to fast)
CH7	Prism 2	000-31	no prism
		32-255	prism 2
	Prism2	000-127	Prism angle adjustment
CH8	rotation	128-190	Reverse rotation (fast to slow)
0110		191-192	Stop
		193-255	Forward rotation (slow to fast)
CH9	Focus	000-255	Pattern clarity from near to far
CH1	pan	000-255	0-540 degree
0			
CH1		000-255	0-1.2 degree
1	pan fine		, and the second
CH1			0-270 degree
2	tilt	000-255	· ·
CH1		000-255	0-1.2 degree
3	tilt fine		5 11 <u>2 35</u> 9.55
CH1			speed fast to slow
4	XY speed	000-255	ороски и ото п
CH1	Frost & 6-	000-127	no function
5	color	128-191	6-color effect
	effect	192-255	Frost
CH1	Oncor	000-025	no function
6	Lamp	100-105	Lamp off
	control	200-205	Lamp on
	Control	250-255	all motors reset
CH1	RGB	000-255	Strobe from slow to fast
7	strobe	000-255	Strobe from slow to last
-		000 001	Dod 1
CH1	RGB offoot	000-001	Red 1
8	effect	002-005	Green 2
		006-010	Blue 3
		011-015	Yellow 4
		016-020	Rose 5
		021-025	Light blue 6
		026-029	White 7
		030-048	Color jump 8
		049-054	Effect 9
		055-058	Effect 10
		059-063	Effect 11
		064-068	Effect 12
		069-073	Effect 13
		074-078	Effect 14

		I	T
		079-087	Effect 15
		088-092	Effect 16
		093-097	Effect 17
		098-102	Effect 18
		103-107	Effect 19
		108-112	Effect 20
		113-116	Effect 21
		117-122	Effect 22
		123-126	Effect 23
		127-131	Effect 24
		132-136	Effect 25
		137-140	Effect 26
		141-144	Effect 27
		145-149	Effect 28
		150-155	Effect 29
		156-160	Effect 30
		161-165	Effect 31
		166-170	Effect 32
		161-165	Effect 33
		166-174	Effect 34
		175-179	Effect 35
		180-184	Effect 40
		185-189	Effect 41
		190-194	Effect 42
		195-199	Effect 43
		200-203	Effect 44
		204-208	Effect 45
		209-213	Effect 46
		214-218	Effect 47
		219-223	Effect 48
		224-228	Effect 49
		229-232	Effect 50
		233-237	Effect 51
		238-242	Effect 52
		243-247	Effect 53
		248-252	Effect 54
		253-255	Effect 55
CH1	RGBeffect	0-255	Speed from slow to fast
9	Speed		

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.

