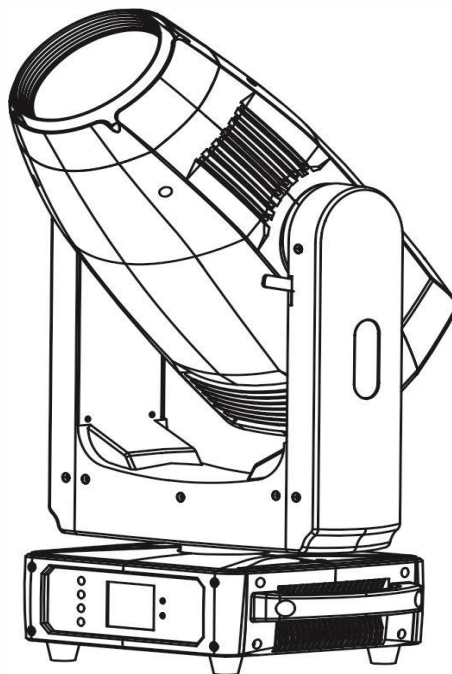




**SPL-LED-M700BSWF**



## User Manual

Please read the instruction carefully before use

# CONTENTS

01/ Safety Information.....	3-4
02/ Technical Specifications.....	5
03/ Connecting Power and Data.....	6
04/ Connecting Data.....	7
05/ Address Setting.....	8
06/ Overview.....	9
07/ Display and operation.....	10-11
08/ DMX Protoco.....	12-13
09/ Troubleshooting.....	14
10/ Fixture Cleaning.....	15

## 01/ Safety Information

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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

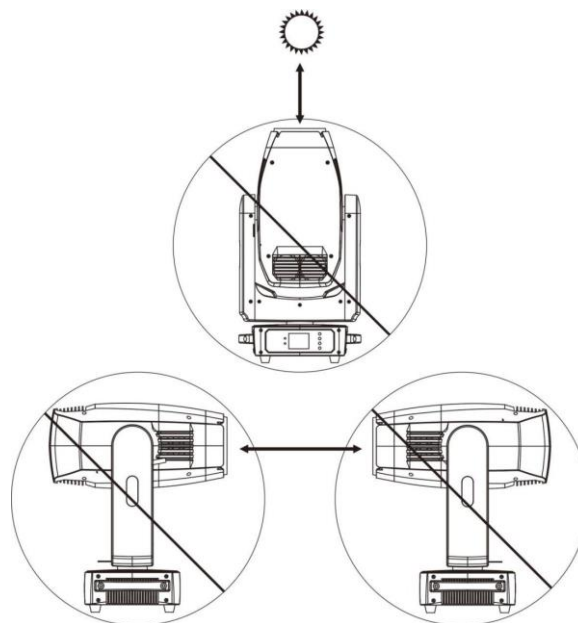
the damaged parts replaced by an authorized technician at once.

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.

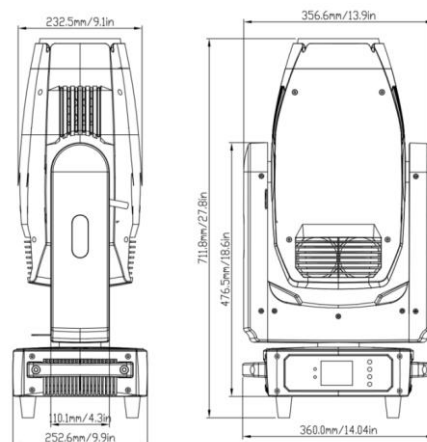


## 02/ Technical Specifications

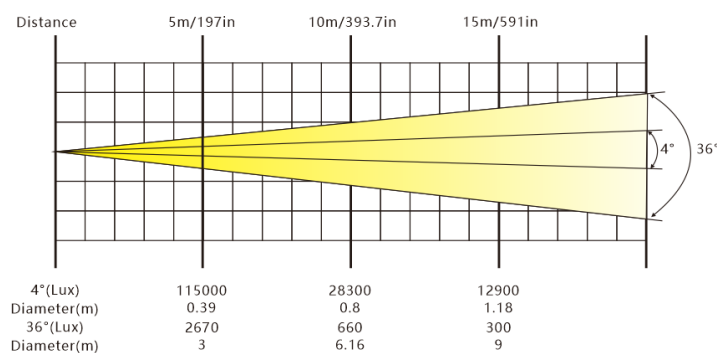
1. Voltage: 100-240V, 50/60HZ;
2. Power Consumption: 800W;
3. Lamp: 600 W 6500K white led module
4. DMX Channel: 29CH
5. Operation mode: master-slave/DMX/Auto
6. strobe:25Hz
7. Beam angle: 4°-36°
8. rotating gobo wheel: 7 gobos+white
9. Color wheel: 5 colors+open+CTO
10. Flare: 4pcs
11. Pan: 540°(16bits)
12. Tilt: 270°(16bits)
13. Frost /focus/zoom/flare effect/cut/iris/CMY/CTO/RDM: Yes
14. RDM: Yes
15. Display: LCD touch screen

**Product dimension: 360\*252\*712 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 800W.

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	$\perp$ or $\oplus$	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.

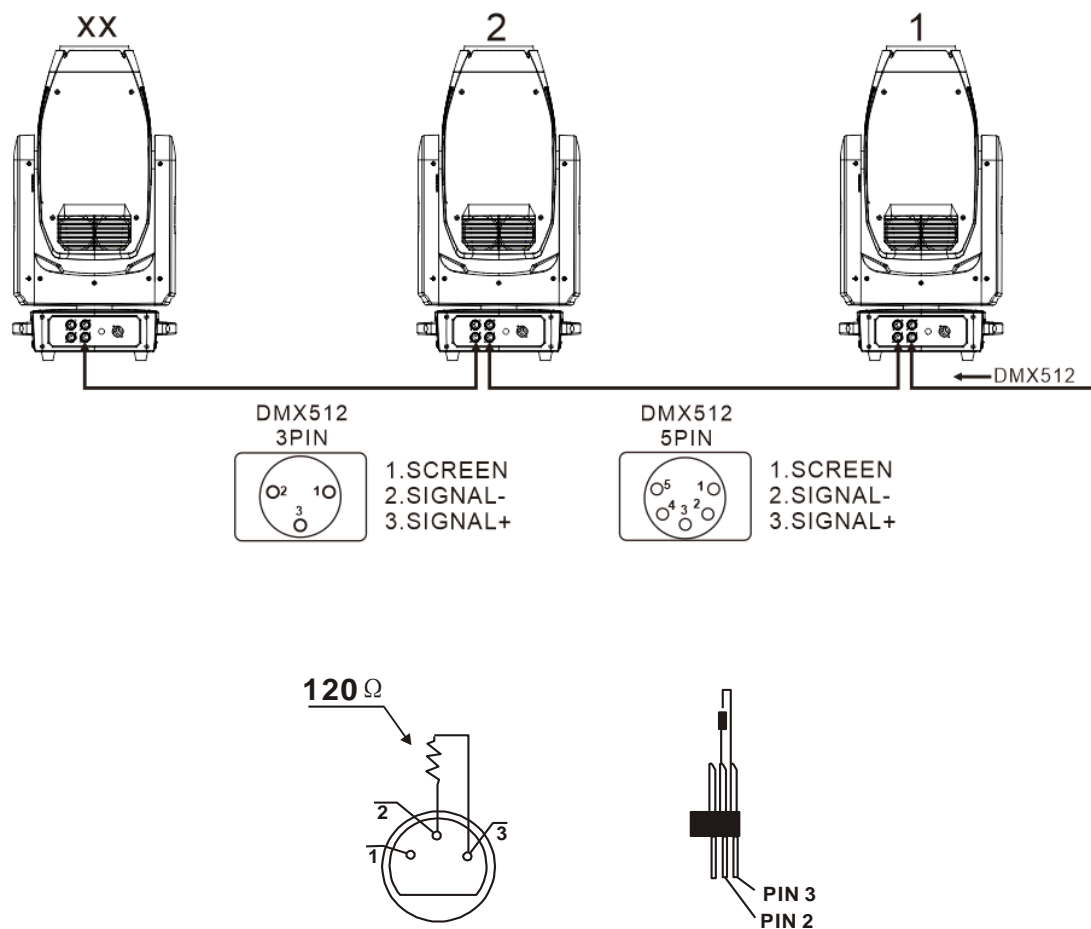
Connect

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.

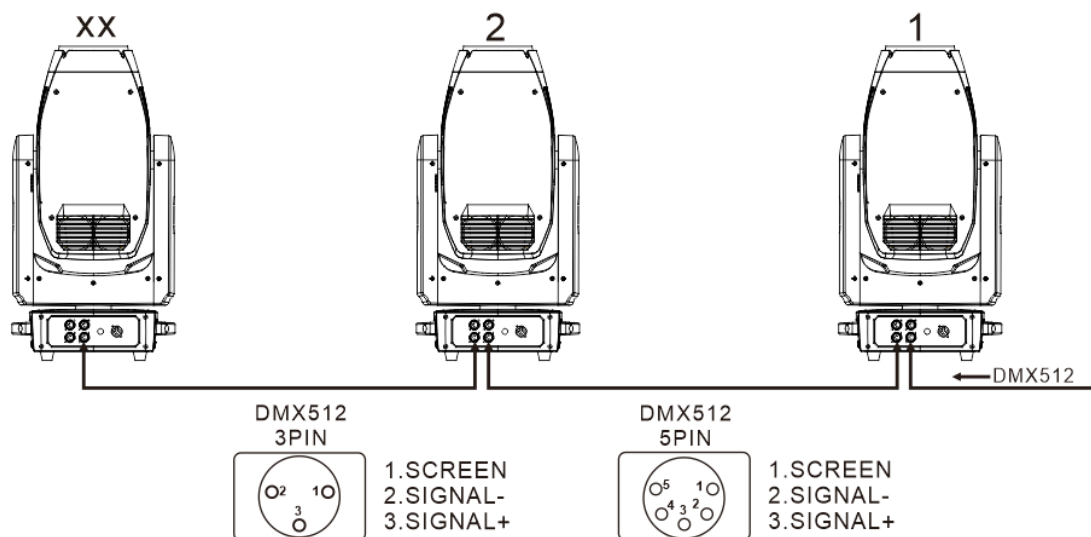
You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

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 ( $43+1=44 \gg 44$ ).

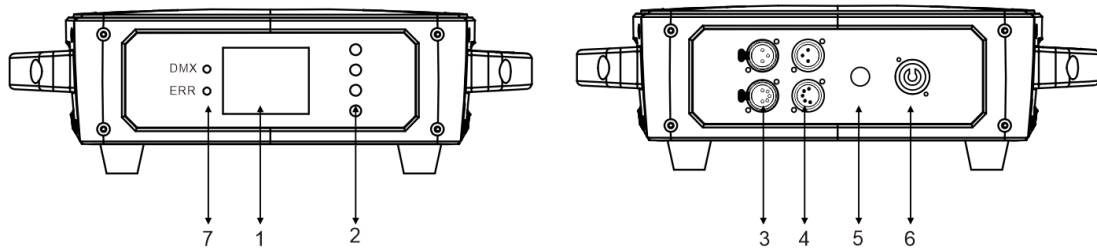
See the chart below for more details:



Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx 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	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (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 (optional with 3-pin IP XLR)	
● 6 POWER IN	To connect to supply power	

## 07/ Display and operation

Main menu	Sub-MENU	Parameter
Advanced	Advanced setting should approval	
Standard	Default set	
	Address	0-512
	DMX Mode	
	Effect mode	No/Yes
	No Signal	Clear/Hold
	Show time	No/Yes
	Brightness	000-255
	Effect sync	Speed 1/2/3/4/5/6/7/ Off
	Screen saver	Off/On
	XY encoder	No/Yes
	X inversion	No/Yes
	Y inversion	No/Yes
Info	Error List	No error/View
	Display Ver	Software version
	Main board	Main board info
	Serial NO.	Factory number
	SYS Timer	Whole driving time
	Run timer	Current driving time
	Lamp timmer	LED driving time
	Permission	Hold
	Equip TEMP	Fixture's temp
	Head TEMP	Head temp
	Fan 1 speed	Hold
	Fan 2 speed	Hold
	Pan coder	Hold
	Tilt coder	Hold
Perform	Run mode	Auto/DMX
	Run speed	255
	Run cross	255
	Built-in 1	Off/on
	Built-in 2	Off/on
	User PRO 1	Off/on
	User Pro 2	Off/on
	User Pro 3	Off/on
	User Pro 4	Off/on
	Circle shape	Off/on
	Shpae shape	Off/on
	Shape range	000

	Sound DB	000
Program		
Reset		
Language	English/ Chinese	

## 08/ DMX Protoco

CH29-CHANNEL MODE:

CH29	Function	Value	Instruction
CH1	X	000-255	0-540°
CH2	X fine	000-255	0-2.1°
CH3	Y	000-255	0-270°
CH4	Y fine	000-255	0-1°
CH5	XY speed	000-255	From fast to slow
CH6	dimmer	000-255	0-100%
CH7	strobe	000-003	No function
		004-103	Strobe from slow to fast
		104-207	Pluse strobe from slow to fast
		208-251	Random strobe from slow to fast
		252-255	Open
CH8	Color	000-021	White
		022-043	Red 1
		044-065	Orange 2
		066-087	Yellow 3
		088-109	Green 4
		110-131	Blue 5
		132-153	CTO+Blue
		154-175	Green+Blue
		176-197	Green+Yellow
		198-219	Orange+Yellow
		220-241	Red+Orange
		242-255	Red+White
CH9	Cyan	000-255	Off-Cutter
CH10	Magenta	000-255	Off-Cutter
CH11	Yellow	000-255	Off-Cutter
CH12	CTO	000-255	Off-Cutter
CH13	Glass gobos	000-004	White
		005-009	Gobo 1
		010-014	Gobo 2
		015-019	Gobo 3
		020-024	Gobo 4
		025-029	Gobo 5

		030-034	Gobo 6
		035-039	Gobo 7
		040-069	Gobo 1 shaking from slow to fast
		070-084	Gobo 2 shaking from slow to fast
		085-099	Gobo 3 shaking from slow to fast
		100-114	Gobo 4 shaking from slow to fast
		115-129	Gobo 5 shaking from slow to fast
		130-144	Gobo 6 shaking from slow to fast
		145-159	Gobo 7 shaking from slow to fast
		160-207	Clockwise eotic from slow to fast
		208-255	Anti-clockwise eotic from slow to fast
CH14	Gobo rotation	000-127	0-360°
		128-191	Clockwise eotic from fast to slow
		192-255	Anti-clockwise eotic from slow to fast
CH15	Effect wheel	000-091	Gobo 1 eotic from slow to fast
		092-173	Gobo 2 eotic from slow to fast
		174-255	Gobo 3 eotic from slow to fast
CH16	Iris	000-110	From big to small
		111-160	Open effect
		161-210	Closed effect
		211-255	Auto open
CH17	zoom	000-255	From near to far
CH18	Focus	000-255	From near to far
CH19	Cutter 1A	000-255	On/off
CH20	Cutter 1B	000-255	On/off
CH21	Cutter 2A	000-255	On/off
CH22	Cutter 2B	000-255	On/off
CH23	Cutter 3A	000-255	On/off
CH24	Cutter 3B	000-255	On/off
CH25	Cutter 4A	000-255	On/off
CH26	Cutter 4B	000-255	On/off
CH27	Cutter rotation	000-255	0-90°
CH28	Auto cutter effect	000-007	No function
		008-127	Fixed cutter effect
		128-255	From slow to fast auto cutter
CH29	Reset	000-209	No function
		210-219	XY Reset after 6 secs
		220-239	Effect wheel Reset after 6 secs
		240-255	all Reset after 6 secs

## 09/ Troubleshooting

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

## 10/ Fixture Cleaning

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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.



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