SPL-LED-500IP

User Manual

Please read the instruction carefully before use

CONTENTS

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℃. Maximum ambient temperature TA: 40℃. 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℃. 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.

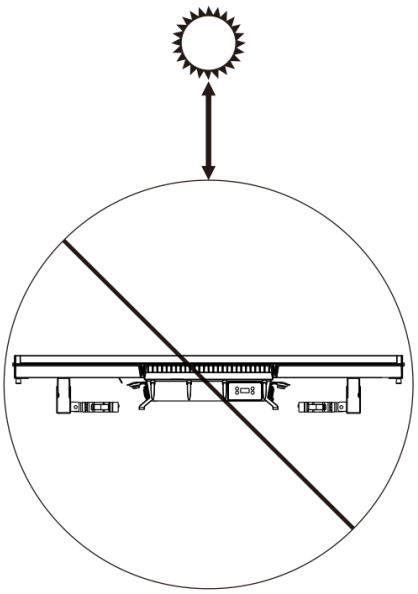
Disconnect this product from its power source before servicing.

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：500W
LED type：112*3W **3030white**　**Color Temp：7000K**

672*0.3W　5050RGB 3in1

Average lifespan：50000 hours

Beam angle：120°

Electronic Dimming：0-100%

Strobe：1S/25

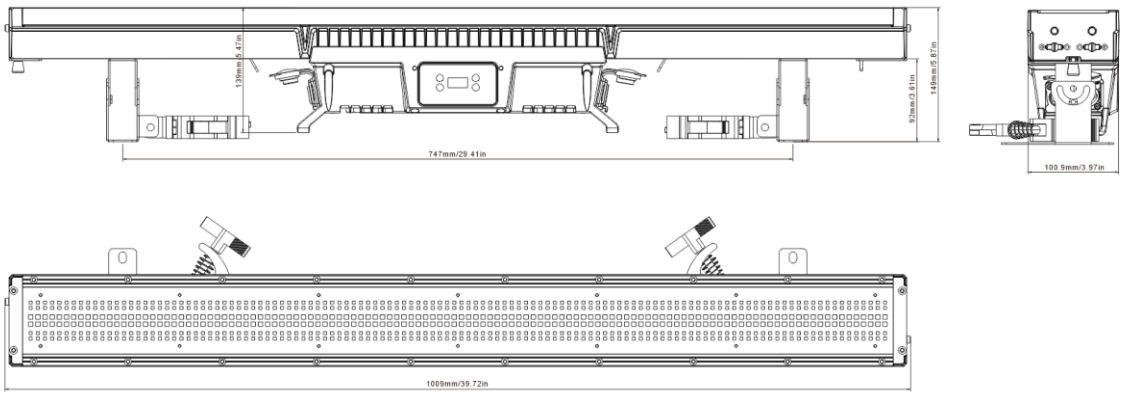
DMX channel：

7CH/15CH/17CH/21CH/33CH/39CH/65CH/68CH/70CH/112CH/117CH

mode：DMX512、Auto、Master-slave、RDM

PowerCon: Waterproof power connector input/output

Display mode：LED
IP rating：IP65
Max ambient temp：45°
Product dimension：1009*100*149 mm
N.W：8kG



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:

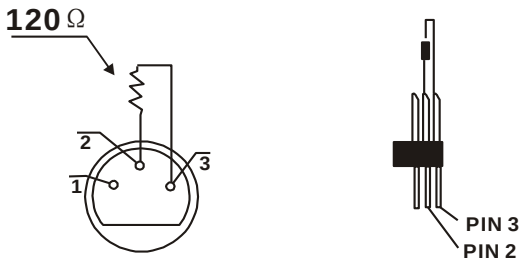
Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
	black		brown	L	live
	white		blue	N	neutral
	green		yellow/green	⏚ or ⏚	ground (earth)

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.

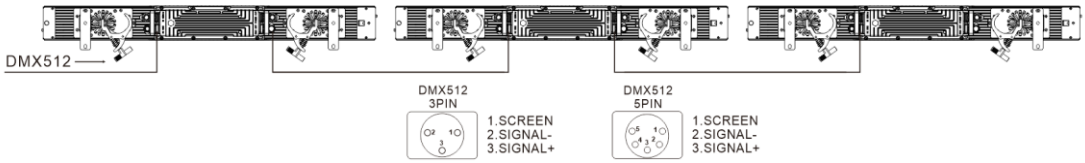
You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

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 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)	
● 5. POWER IN	To connect to supply power	
● 6.POWER OUT	To connect to supply power	

07/ Display and operation

MENU	Sub-MENU	Three-level menu/Value range	
DMX Address	Address	001-512	
DMX Mode	Channel	7CH、15CH、17CH、21CH、33CH、39CH、65CH、68CH、70CH、112CH、117CH	
Stand Alone	Auto	Auto	01-64
		Tempo	01-99
		Auto-W	01-50
		Tempo-W	01-99
		Dimmer	000-255
		C.M	Off

	Maintain Color		Red
			Green
			Blue
			Yellow
			Pink
			Cyan
			Lime
			Orange
			Marine
			Lavender
			Candy
			Leaf
			Purple
			White
	Manual Color	Dimmer	000-255
		Red	000-255
		Green	000-255
		Blue	000-255
		White	000-255
Slave	Slave	ON/OFF	
Setting	DMX Fail	Hold	
		Black	
		Auto	
	Dis Reverse	ON/OFF	
	Backlight	ON/OFF	
	CH/EN	CH/EN	
	T-Temp	45-80	
	T-Power	050-220	
	Auto Lock	ON/OFF	
	Power All	Led Sw	ON/OFF
		Red	000-255
		Green	000-255
		Blue	000-255
		White	000-255
	sync	ON/OFF	
	Factory	ON/OFF	
System	Hardware-V	xxx	
	Software-V	xxx	
	Op.Hours	xxxH	

08/ DMX Protoco

CH7-CHANNEL MODE:

Channels		Value	Instruction
1	Red dimming	000-255	Red dimming, from dark to bright
2	Green dimming	000-255	Green dimming, from dark to bright
3	Blue dimming	000-255	Blue dimming, from dark to bright
4	White dimming	000-255	White dimming, from dark to bright
5	Total dimming	000-255	R、G、B、W total dimming, from dark to bright
6	Dimmer fine	000-255	Fine-tune the light, from small to large
7	Dimming glass	000-255	Clarity grows from small to large

CH15 -CHANNEL MODE:

Channels		Value	Instruction
1	Red dimming	000-255	Red dimming, from dark to bright
2	Green dimming	000-255	Green dimming, from dark to bright
3	Blue dimming	000-255	Blue dimming, from dark to bright
4	White dimming	000-255	White dimming, from dark to bright
5	COLOR MACRO	0-9	no effect
		10-17	Colour 1
		18-26	Colour 2
		27-35	Colour 3
		36-44	Colour 4
		45-53	Colour 5
		54-62	Colour 6
		63-71	Colour 7
		72-80	Colour 8
		81-89	Colour 9
		90-98	Colour 10
		99-107	Colour 11
		108-116	Colour 12
		117-125	Colour 13
		126-134	Colour 14
		135-143	Colour 15
		144-152	Colour 16
		153-161	Colour 17
		162-170	Colour 18
		171-179	Colour 19
		180-188	Colour 20

		189-197	Colour 21
		198-206	Colour 22
		207-215	Colour 23
		216-224	Colour 24
		225-233	Colour 25
		234-242	Colour 26
		243-251	Colour 27
		252-255	Colour 28
6	Total dimming	000-255	R、G、B、W total dimming, from dark to bright
7	Dimmer fine	000-255	Fine-tune the light, from small to large
8	Duration of stroboscopic	000-255	The stroboscopic time increases from short to long
9	Stroboscopic rate	000-255	The stroboscopic rate increases from slow to fast
10	Total stroboscopic	0-5	no effect
		6-50	Open slowly close quickly
		51-100	Open quickly close slowly
		101-150	Open slowly close slowly
		151-200	Lighting effect
		201-255	Random strobe
11	RGB effect	0-5	No effect
		6-8	Effect 1
		9-12	Effect 2
		13-16	Effect 3
		17-20	Effect 4
		21-24	Effect 5
		25-28	Effect 6
		29-32	Effect 7
		33-36	Effect 8
		37-40	Effect 9
		41-44	Effect 10
		45-48	Effect 11
		49-52	Effect 12
		53-56	Effect 13
		57-60	Effect 14
		61-64	Effect 15
		65-68	Effect 16
		69-72	Effect 17
		73-76	Effect 18
		77-80	Effect 19
		81-84	Effect 20
		85-88	Effect 21
		89-92	Effect 22
		93-96	Effect 23
		97-100	Effect 24

		101-104	Effect 25
		105-108	Effect 26
		109-112	Effect 27
		113-116	Effect 28
		117-120	Effect 29
		121-124	Effect 30
		125-128	Effect 31
		129-132	Effect 32
		133-136	Effect 33
		137-140	Effect 34
		141-144	Effect 35
		145-148	Effect 36
		149-152	Effect 37
		153-156	Effect 38
		157-160	Effect 39
		161-164	Effect 40
		165-168	Effect 41
		169-172	Effect 42
		173-176	Effect 43
		177-180	Effect 44
		181-184	Effect 45
		185-188	Effect 46
		189-192	Effect 47
		193-196	Effect 48
		197-200	Effect 49
		201-204	Effect 50
		205-208	Effect 51
		209-212	Effect 52
		213-216	Effect 53
		217-220	Effect 54
		221-224	Effect 55
		225-228	Effect 56
		229-232	Effect 57
		233-236	Effect 58
		237-240	Effect 59
		241-244	Effect 60
		245-248	Effect 61
		249-252	Effect 62
		253-255	Effect 63
12	W effect	0-5	No effect
		6-10	Effect 1
		....	
		246-250	Effect 49

		251-255	Effect 50
13	Effect speed	0-127	Turn forward, from slow to fast
		128-255	Reversal, from slow to fast
14	Fade out effect	000-255	The effect progresses from slow to fast
15	Dimming glass	000-255	Clarity grows from small to large

CH21-CHANNEL MODE:

Channels		Value	Instruction
1	Red dimming	000-255	Red dimming, from dark to bright.
2	Green dimming	000-255	Green dimming, from dark to bright.
3	Blue dimming	000-255	Blue dimming, from dark to bright.
4	COLOR MACRO	0-9	No effect
		10-17	Colour 1
		....	
		243-251	Colour 27
		252-255	Colour 28
5	RGB Dimming	000-255	R、G、B dimming，from dark to light
6	RGB fine-tuning	000-255	RGB dimming fine-tuning, from small to large
7	Duration of stroboscopic	000-255	The stroboscopic time increases from short to long
8	Stroboscopic rate	000-255	The stroboscopic rate increases from slow to fast
9	Stroboscopic	0-5	No effect
		6-50	Open slowly close quickly
		51-100	Open quickly and close slowly
		101-150	Open and close slowly
		151-200	Lighting effect
		201-255	Random strobe
10	RGB effect	0-5	No effect
		6-8	Effect 1
		....	
		249-252	Effect 62
		253-255	Effect 63
11	RGB effect speed	0-127	Turn forward, from slow to fast
		128-255	Reversal, from slow to fast
12	RGB fade out effect	000-255	Reversal, from slow to fast
13	W dimming	000-255	W dimming，from dark to light
14	W dimming fine-tuning		W dimming fine-tuning, from small to large
15	Duration of stroboscopic	000-255	The stroboscopic time increases from short to long
16	Stroboscopic rate	000-255	The stroboscopic rate increases from slow to fast

17	Stroboscopic	0–5	No effect
		6–50	Open slowly close quickly
		51–100	Open quickly and close slowly
		101–150	Open and close slowly
		151–200	Lighting effect
		201–255	Random strobe
18	W effect	0-5	No effect
		6-10	Effect 1
		....	
		246-250	Effect 49
		251-255	Effect 50
19	W effect speed	0-127	Turn forward, from slow to fast
		128-255	Reversal, from slow to fast
20	W dimming fine-tuning	000-255	The effect progresses from slow to fast
21	Duration of stroboscopic	000-255	Clarity grows from small to large

CH39-CHANNEL MODE:

Channels		Value	Instruction
1	Red 1	000-255	Red dimming, from dark to bright.
2	Green 1	000-255	Green dimming, from dark to bright.
3	Blue 1	000-255	Blue dimming, from dark to bright.
. . .	. . .	. . .	. . .
22	Red 8	000-255	Red dimming, from dark to bright.
23	Green 8	000-255	Green dimming, from dark to bright.
24	Blue 8	000-255	Blue dimming, from dark to bright.
25	RGB dimming	000-255	R、G、B dimming from dark to bright
26	RGB fine-tuning	000-255	RGB dimming fine-tuning, from small to large
27	Duration of stroboscopic	000–255	The stroboscopic time increases from short to long
28	Stroboscopic rate	000–255	The stroboscopic rate increases from slow to fast
29	Stroboscopic	0-5	No effect
		6-50	Open slowly close quickly
		51-100	Open quickly and close slowly
		101-150	Open and close slowly
		151-200	Lighting effect
		201-255	Random strobe
30	White 1	000-255	White dimming, from dark to bright
31	White 2	000-255	White dimming, from dark to bright

32	White 3	000-255	White dimming, from dark to bright
33	White 4	000-255	White dimming, from dark to bright
34	W dimming	000-255	W overall dimming, from dark to bright
35	W dimming fine-tuning	000-255	W dimming fine-tuning, from small to large
36	Duration of stroboscopic	000-255	The stroboscopic time increases from short to long
37	Stroboscopic rate	000-255	The stroboscopic rate increases from slow to fast
38	Stroboscopic	0-5	No effect
		6-50	Open slowly close quickly
		51-100	Open quickly and close slowly
		101-150	Open and close slowly
		151-200	Lighting effect
		201-255	Random strobe
39	Dimming glass	000-255	Clarity grows from small to large

CH33-CHANNEL MODE:

Channels		Value	Instruction
1	Red 1	000-255	Red dimming, from dark to bright.
2	Green 1	000-255	Green dimming, from dark to bright.
3	Blue 1	000-255	Blue dimming, from dark to bright.
...	...	...	...
22	Red 8	000-255	Red dimming, from dark to bright.
23	Green 8	000-255	Green dimming, from dark to bright.
24	Blue 8	000-255	Blue dimming, from dark to bright.
25	White 1	000-255	White dimming, from dark to bright.
...	...	...	...
32	White 8	000-255	White dimming, from dark to bright.
33	Dimming glass	000-255	Clarity grows from small to large

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.	nspect 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

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.