



SPL-LED-200B



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

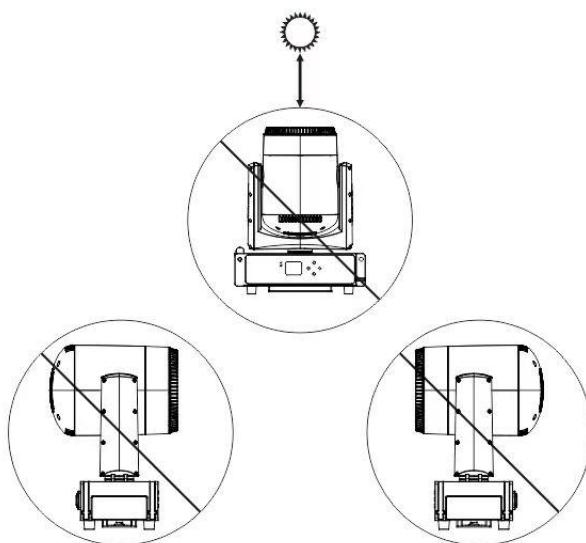
the damaged parts replaced by an authorized technician at once.

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

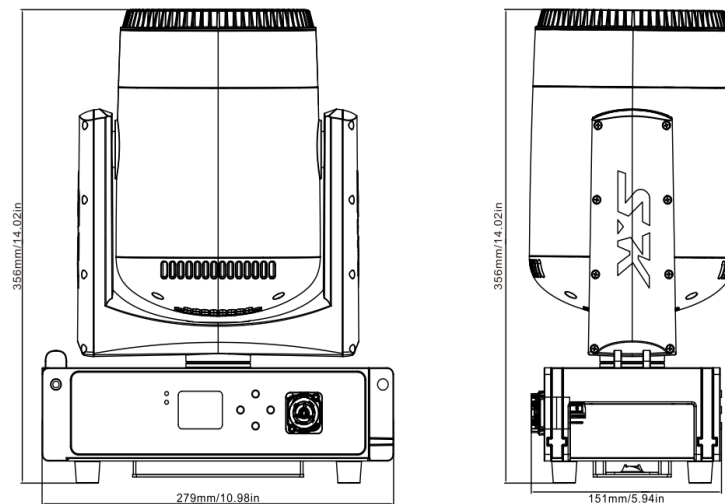
NOT expose the fixture front lens to light beams from direct sunlight or any other strong

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.

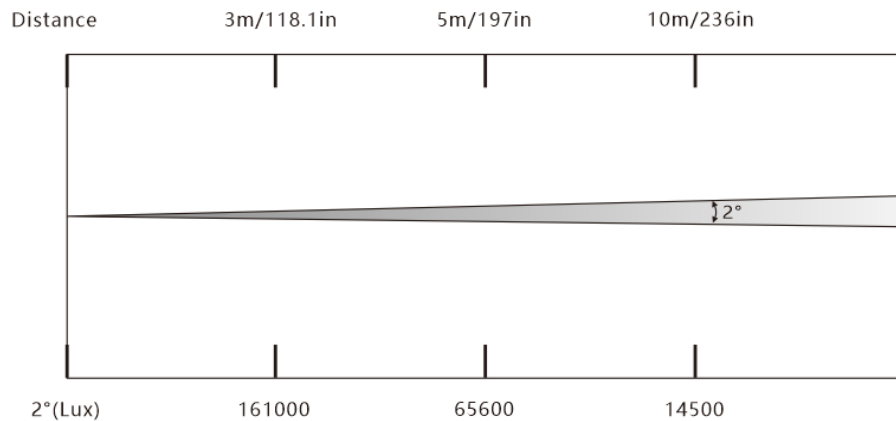


02/ Technical Specifications

1. Voltage: 100-240V, 50/60HZ;
 2. Power Consumption: 180W;
 3. LED: 120W
 4. DMX Channel: 19CH
 5. Operation mode: master-slave/DMX/Auto
 6. strobe:25Hz
 7. **Beam angle: 2°**
 8. rotating gobo wheel: 8 gobos+open
 9. Color : 8 colors+open
 10. Prism 1: 8-facet
 11. Pan: 540°(16bits)
 12. Tilt: 270°(16bits)
 13. RDM: Yes
 14. Display: LCD touch screen
- Product dimension: 279*151*356 mm**
N.W: 7.4kG



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
	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.

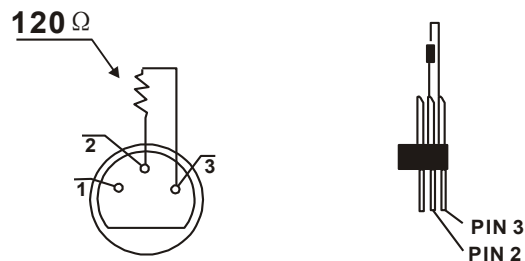
Connect

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.

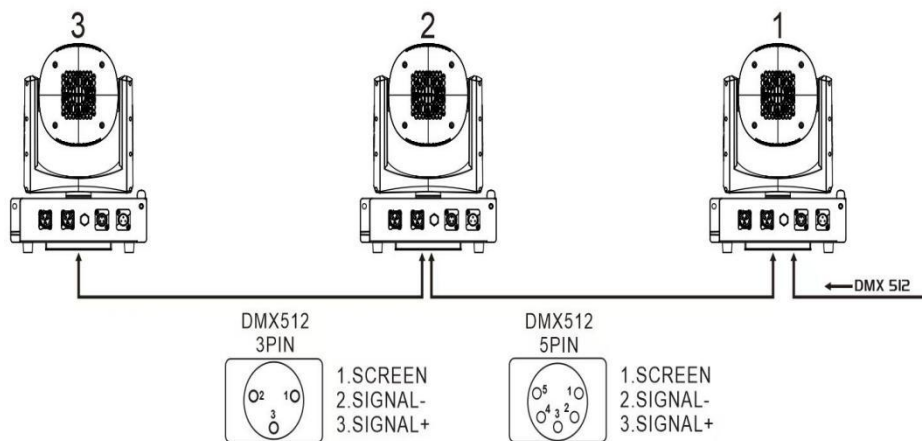
You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

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.

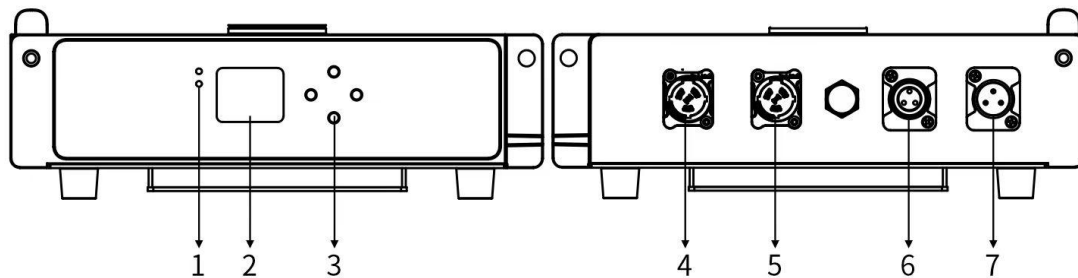
For example, if the first fixture is set to 43 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of 44. As the first fixture uses all the first 43 DMX channels, the next available channel is 44 ($43+1=44 \gg 44$).

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	
3. 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/parameters	Four-level menu/parameters
Setting	Run Mode	DMX/Sound/AUTO/Scene	
	Scene Set	Scene Select	01-20
		Scene Time	000-255
		Aut Run	ON/OFF
		01 Pan	000-255
		02 Pan Fine	000-255
		03 Pan Rotation	000-255
		04 Tile	000-255
		05 TileFine	000-255
		06 Tile Rotation	000-255
		07 Pan Tile Time	000-255
		08 Shutter&Strobe	000-255
		09 Dimmer	000-255
		10 Color	000-255
		11 Gobo	000-255
		12 Prise	000-255
		14 Frost	000-255
		14 Focus	000-255
		15 Reset	000-255
		16 Led Strobe	000-255
		17 Led Scene	000-255
		18 Led Dir	000-255
		19 Led Scene Speed	000-255
	DMX Address	001-512	
	Device Reset	OFF/ON	
	Channel Mode	19CH	
	Language	Chinese/English	
	Screen Protect	OFF/ON	
	Screen Rotation	OFF/ON	
	Invert Pan	OFF/ON	
	Invert Tilt	OFF/ON	
	Pan-Tilt Swap	OFF/ON	
	Pan-Tilt Encoder	OFF/ON	
	DMX Signal	Keep/CLEAR	
	Linear Color	OFF/ON	
	Clear Scene Data	OK/Cancel	

	Load Default	OK/Cancel	
Manual Control	01 Pan	000-255	
	02 Pan Fine	000-255	
	03PanRotation	000-255	
	04 Tile	000-255	
	05 Tile Fine	000-255	
	06 Tile Rotation	000-255	
	07 Pan Tile Time	000-255	
	08 Shutter &Strobe	000-255	
	09 Dimmer	000-255	
	10 Color	000-255	
	11 Gobo	000-255	
	12 Prise	000-255	
	13 Frost	000-255	
	14 Focus	000-255	
	15 Reset	000-255	
	16 Led Strobe	000-255	
	17 Led Scene	000-255	
	18 LED Dir	000-255	
	19 Led Scene Speed	000-255	
Information	Ver	Display version number	
	DIS	Display board software version	
	MT	Software version of the motor board	
	Time information	Total bright bubbles	*****: **
		Total usage	*****: **
	System Warning	Display a reset error message	
	Turbo Fan Speed	Display rotational speed	
	Hall State	Display the Hall state	
	Pan Wheel Step	Display value	
	Tilt wheel Step	Display value	
	Authority Hours	Display the duration of the lamp	
Factory	Pan	-128~127	
	Tilt	-128~127	
	Color	-128~127	
	Gobo	-128~127	
	Focus	-128~127	
	Prism1 Cal	-128~127	
	Frost Zero	-128~127	
	Frost	-128~127	
	Clear	OFF/ON	

08/ DMX Protoco

CH19-CHANNEL MODE:

Channels	Function	Value	Effect
1	X axis	000-255	Horizontal 360-degree scan
2	Fine-tuning of the X-axis	000-255	Fine-tuning by 1.2 degrees horizontally
3	X axis rotation	000-003 004-128 129-130 131-255	No function Reverse rotation, from fast to slow stop Forward rotation, from slow to fast
4	Y axis	000-255	Vertical 270-degree scanning
5	Fine-tuning of the Y-axis	000-255	Fine-tuning by 1.2 degrees vertically
6	Y axis rotation	000-003 004-128 129-130 131-255	No function Reverse rotation, from fast to slow stop Forward rotation, from slow to fast
7	XY speed	000-255	The speed decreases from fast to slow
8	Strobe	000-003 004-103 104-107 108-207 208-212 213-251 252-255	The light gate is closed. The stroboscopic effect increases from slow to fast The light gate is open. → (Controlled by the dimming channel) The pulse stroboscopic speed increases from slow to fast The light gate is open. → (Controlled by the dimming channel) Random stroboscopic from slow to fast The light gate is open. → (Controlled by the dimming channel)
9	Dimmer	000-255	From dark to bright
10	Color plate	000 - 009 010 - 019 020 - 029 030 - 039 040 - 049 050 - 059 060 - 069 070 - 079 080 - 089 090 - 200 201 - 255	White Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Color 8 Positive water (from fast to slow) Reverse flowing (from slow to fast)

11	Gobo plate	000 - 004	White
		005 - 009	Gobo1
		010 - 014	Gobo2
		015 - 019	Gobo3
		020 - 024	Gobo4
		025 - 029	Gobo5
		030 - 034	Gobo6
		035 - 039	Gobo7
		040 - 044	Gobo8
		045 - 049	White shake (from slow to fast)
		050 - 054	Gobo1 shake (from slow to fast)
		055 - 059	Gobo2 shake (from slow to fast)
		060 - 064	Gobo3 shake (from slow to fast)
		065 - 069	Gobo4 shake (from slow to fast)
		070 - 074	Gobo5 shake (from slow to fast)
		075 - 079	Gobo6 shake (from slow to fast)
		080 - 084	Gobo7 shake (from slow to fast)
		085 - 089	Gobo8 shake (from slow to fast)
		090 - 200	Positive flow (from fast to slow)
		201 - 255	Reverse flow (from slow to fast)
12	Prism rotation	000-127	Prism Angle adjustment
		128-190	Forward rotation (from fast to slow)
		191-193	Stop
		194-255	Reverse rotation (from slow to fast)
13	Frost	000-127	No effect
		128-255	Frost cut in
14	Focus	000-255	The clarity of the pattern increases from far to near
15	Reset	000-250	No effect
		251-255	Reset the fixture
16	Led strobe		The light gate is open.
		000-003	The stroboscopic effect increases from slow to fast
		004-250	The light gate opens → (controlled by the dimming channel)
		251-255	
17	Led scene	000-011	No effect
		012-013	Effect 1
		014-015	Effect 2
		016-017	Effect 3
		018-019	Effect 4
		020-021	Effect 5
		022-023	Effect 6
		024-025	Effect 7
		026-027	Effect 8
		028-029	Effect 9
		030-031	Effect 10

		032-033	Effect 11
		034-035	Effect 12
		036-037	Effect 13
		038-039	Effect 14
		040-041	Effect 15
		042-043	Effect 16
		044-045	Effect 17
		046-047	Effect 18
		048-049	Effect 19
		050-051	Effect 20
		052-055	Effect 21
		056-059	Effect 22
		060-063	Effect 23
		064-067	Effect 24
		068-071	Effect 25
		072-075	Effect 26
		076-079	Effect 27
		080-083	Effect 28
		084-087	Effect 29
		088-091	Effect 30
		092-095	Effect 31
		096-099	Effect 32
		100-103	Effect 33
		104-107	Effect 34
		108-111	Effect 35
		112-115	Effect 36
		116-119	Effect 37
		120-123	Effect 38
		124-127	Effect 39
		128-131	Effect 40
		132-135	Effect 41
		136-139	Effect 42
		140-143	Effect 43
		144-147	Effect 44
		148-151	Effect 45
		152-155	Effect 46
		156-159	Effect 47
		160-163	Effect 48
		252-255	Effect 71
18	Led direction	000-127	Reverse
		128-255	Positive
19	Led speed	000-255	From slow to fast

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	Replace the magnetic steel

	out	
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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.



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