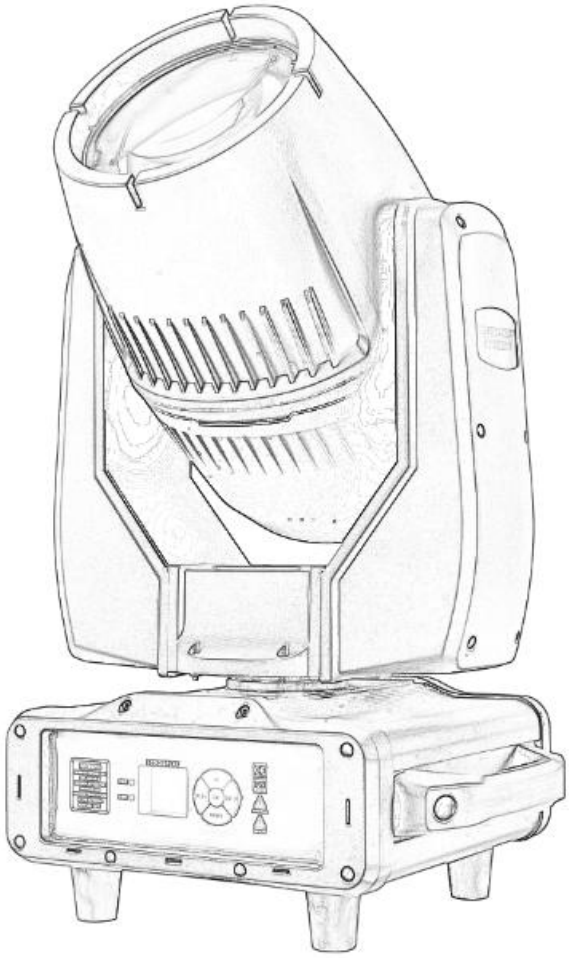
lighting PLUS

User manual



IP-S350B

Please read the instructions carefully before use

TABLE OF CONTENTS

1. **Safety Instructions……3**

2. **Technical Specifications……4**

3. **Control Menu ……5-7**

4. **DMX Channel ……8-10**

5. **Trouble Shooting……10**

6. **Fixture Cleaning…… ……10**

STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

•Unpack and check carefully there is no transportation damage before using the unit.

•Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

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

•The unit is for indoor use only. Use only in a dry location.

•The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

•Disconnect main power before replacement or servicing.

•Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

•Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

•Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

•the event of serious operating problem, stop using the unit immediately.Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

•DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

•To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

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

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

•The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

•The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2.Technical Specifications

Optics:

Light Source:350W beam

Beam angle: 1.8°

Power:350W

IP rate : IP65

Input voltage:AC100-240V 50-60HZ

Pan movement:540° (16bit)

Tilt movement:270°(16bit)

Color:13+1+colorful rainbow effect+ frost function

Fixed gobo: 13 fixed patterns + white light

Prism: 8 prisms / 8+16 prisms stacked and rotatable, macro function

Dimming system: 0-100% linear adjustment

DMX channels: 16 CH

Features:

XY motor: three-phase electric drive, powerful, faster, more stable and quieter

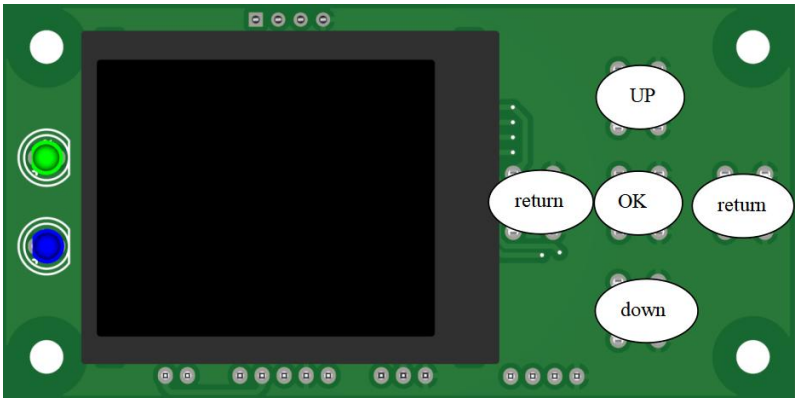
Control mode: DMX 512, self-propelled, master-slave self-propelled

Support RDM function, built-in program: built-in multiple effect programs

NW:20.7KGS

3.Control Menu

1. Control instructions



1)The function of the 'return' button is to return to the previous interface and exit the function
2)The function of the 'up' button is to select the previous item or increase the value by pressing for 2 seconds to quickly increase it
3)The function of the "down" button is to select the next item or decrease the value by pressing for 2 seconds to quickly decrease it

4) The functions of the "OK" button are: confirm save, execute functions, start editing, and exit editing

2. Interface Description

Two LED indicators on the left
Green - (DMA signal indicator light)
Blue --- (constantly on (self running voice control of the host) flashing (error indication))
The three buttons in the upper right corner are used for language switching and screen rotation.
The sub interfaces corresponding to the four buttons in the bottom row are introduced below.

3. Setting interface

Option	illustrate	
Mode	DMX	Slave state: receiving DMX signals from the control console or host
	AUTO	Host status: automatically running and sending a DMX signal to the slave
	Sound	Host status: Voice controlled operation and sending DMX signal to the slave
	scene	Host status: self programmed to run and send a DMX signal to the slave

DMX Address	1~512	Press the "OK" button to enter the editing status. The "up" and "down" keys change the address code. Press' OK 'again to exit editing status
Channel Mode	16	16CH
	20	20CH
X inversion	OFF	
	ON	
Y inversion	OFF	
	ON	
X inversion	OFF	
	ON	Swap channels for the XY axis (including fine tuning)
Reset		Select 'Yes' to confirm and initiate reset
Lamp Control	OFF	Turn off the light bulb
	ON	Turn on the light bulb (please turn it on while the bulb is cool)
Lamp On start	OFF	After powering on, the light bulb does not light up (it needs to be manually lit using the menu or console)
	ON	Automatically light up after resetting after power on
XY encoder	ON	Using an encoder (optocoupler) to determine out of step and automatically correct the position
	OFF	Correction of position without encoder (optocoupler)
NO DMX Signal	KEEP	No signal, continue to maintain the original state
	CLEAR	No signal. The motor returns to its starting position
Screensaver	ON	Turn off backlight after idle for 30 seconds
	OFF	lights on
Color linear		Select 'On' or 'Off' to enable or disable the color wheel linear function
Indicator mode	MODE1	Green with DMX constantly on, blue with host status constantly on
	MODE2	Green with DMX constantly on, blue with host status constantly on, flashing with error messages
Load Default		Select 'Yes' to confirm and restore the default settings

4. Information interface

Option	illustrate
Version	Current software version
Total Fix	Accumulated use time
Fixture time	Usage time since this startup
Total Lamp	Accumulated bright bubble time
Lamp time	Total bright bubble time
Sensor Status	Display the temperature information of the optocoupler hall fan motherboard

5. Customized interface

This interface is used for self programming and self running programs. When in the DMX mode, there is a DMX signal to view the current data and save the current state
When there is no DMX signal, the desired data can be manually set and saved

Option	illustrate	
RUN STEP	1-16	How many steps do I need to run in custom mode
NOW STEP	1-16	What steps are currently in progress
Stop time	1-99	Set the current step running time
Save		Save the current state and proceed to the next step
Pan	0~255	Press the "OK" button to enter the editing status. Press the "Up" and "Down" keys to change the channel value. Press the 'OK' button again to exit editing status
Tilt	0-255	
Pan Fine	0-255	
Tilt Fine	0-255	
……	0~255	

6. Advanced interface

Option	illustrate
Time zero	Clear the usage time of the bright bubble to zero Retime
Lamp control	2-wire 2-wire control light lighter without half power on/off bubble detection function 5-wire 5-wire control light lighter
Calibration	After entering the sub interface, the reset positions of the X-axis, Y-axis, and other motors can be adjusted to compensate for hardware installation errors Attention: Do not perform reset calibration while the motor is running! If the motor is running, please stop it before performing reset calibration If necessary, please perform a reset operation before performing a reset calibration
Channel order	Select the channel value to change the function Multiple functions cannot select the same value
System Errors	The error message generated by resetting can be cleared by selecting error reset

4.DMX Channels

16CH

Channel	Function	Value	Describe
CH1	COLOR	0-4	White
		5-9	White + Color1
		10-14	Color1
		15-19	Color1 + Color2
		20-24	Color2
		25-29	Color2 + Color3
		30-34	Color3
		35-39	Color3 + Color4
		40-44	Color4
		45-49	Color4 + Color5
		50-54	Color5
		55-59	Color5 + Color6
		60-64	Color6
		65-69	Color6 + Color7
		70-74	Color7
		75-79	Color7 + Color8
		80-84	Color8
		85-89	Color8 + Color9
		90-94	Color9
		95-99	Color9 + Color10
		100-104	Color10
		105-109	Color10 + Color11
		110-114	Color11
		115-119	Color11 + Color12
		120-124	Color12
		125-129	Color12 + Color13
		130-134	Color13
		135-139	Color13 + Color14
		140-144	Color14
		145-149	Color14 + White
		150-199	Rotate forward (fast to slow)
		200-255	Rotate reverse (slow to fast)
CH2	STROBE	0-2	Dark
		3-50	Open
		51-240	Slow strobe to fast strobe
		252-255	Open
CH3	DIMMER	0-255	0-100%

CH4	GOBO	0-4	White
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-129	Rotate reverse (fast to slow)
		130-190	Rotate forward (slow to fast)
		191-195	Shake slow to fast Gobo1
		196-200	Shake slow to fast Gobo2
		201-205	Shake slow to fast Gobo3
		206-210	Shake slow to fast Gobo4
		211-215	Shake slow to fast Gobo5
		216-220	Shake slow to fast Gobo6
		221-225	Shake slow to fast Gobo7
		226-230	Shake slow to fast Gobo8
		231-235	Shake slow to fast Gobo9
		236-240	Shake slow to fast Gobo10
		241-245	Shake slow to fast Gobo11
		246-250	Shake slow to fast Gobo12
		251-255	Shake slow to fast Gobo13
CH5	PRISM1	0-127	None
		128-255	Insert prism1
CH6	PRISM1 ROT	0-127	0-400 degrees
		128-191	Rotate reverse (fast to slow)
		192-255	Rotate forward (slow to fast)
CH7	PRISM2	0-127	None
		128-255	Insert prism2
CH8	FROST	0-127	None
		128-191	Insert Frost
		192-255	Insert Colorful
CH9	FOCUS	0-255	far to near
CH10	PAN	0-255	0-540
CH11	PAN Fine	0-255	

CH12	TILT	0-255	0-270
CH13	TILT Fine	0-255	
CH14	XY SPEED	0-255	fast to slow
CH15	RESET	26-76	Reset EFT over 5 seconds
		77-127	Reset XY over 5 seconds
		128-255	Reset ALL over 5 seconds
CH16	LAMP	10-100	Lamp off over 5 seconds
		101-255	Lamp on over 5 seconds

5.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motors drive IC on the PCB might be out of condition

6.Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.