User manual

460 LED BSW

Please read the instructions carefully before use

TABLE OF CONTENTS

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

460W LED BSW 3-in-1 moving head

Optics:

Life:>30000H

Beam angle:2°-38°

Input power:500W

AC100-240V 50-60HZ

Color temperature: 2500k-5600k

Pan movement:540°(16bit)

Tilt movement:270°(16bit)

Color: CMY+CTO color mixing system

1 color plate: 8 color plates + white light, half-color effect

Gobo: 1 effect plate

1 rotating gobo wheel: 8 gobos+white

1 fixed pattern plate: 10 pattern pieces + white

Prism: 3 face prism+5 face prism

High-speed strobe: 0-30 times/sec, Adjustable speed strobe effect, Strobe macro function

Focusing system: clearly linear adjustment focus

Atomizing mirror: atomizing diffuser

Dimming: fast electric iris 5-100% linear adjustment; 0-100% linear dimming

Display: 2.8-inch colorful LCD touch screen

Features:

DMX Channels:25channels

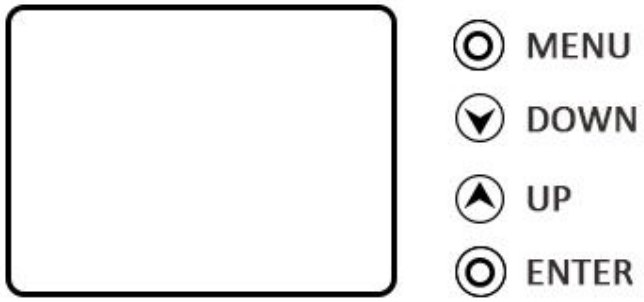
Control: DMX 512 , RDM

Dimension: 36*29*66 cm (L*W*H); NW: 21 kg

3.Control Menu

Menu Operation

On the base of the control panel offers a number of features, such as setting DMX fixture address, switch the lamp, run the test program, the mode selection.



Settings	DMX Address	001-512	
	Fixture Set	Dmx Mode	25CH
		Run Mode	DMX/Host
		Pan Invert	Close/Open
		Tilt Invert	Close/Open
		Dimmer Fast	Close/Open
		No DMX State	Clear/Keep
		Exit	
	Display	Language	CH/EN
		Display Flip	Close/Open
		Display Mode	60S/Show
		Exit	
	Reset	XY Reset	Cancel/Run
		Motor Reset	Cancel/Run
		All Reset	Cancel/Run
		Factory	Cancel/Run
		Exit	
	Exit		
Info	Time	Current Time	xxxxxH
		Total Time	xxxxxH
		Power Count	xxxxxH
	Sensor	Pan	
		… …	
	Software Version	Panel	Vxx.x
		XY	Vxx.x
		Motor	Vxx.x
	Exit		
Manual	Pan	000-255	
	Pan Fine	000-255	
	… …	000-255	
	Exit		

Factory	Password	000-255	
	Pan	000-255	
	Tilt	000-255	
	… …	000-255	
	Exit		

4.DMX Channels

DMX channel´s functions and values (25DMX channels)

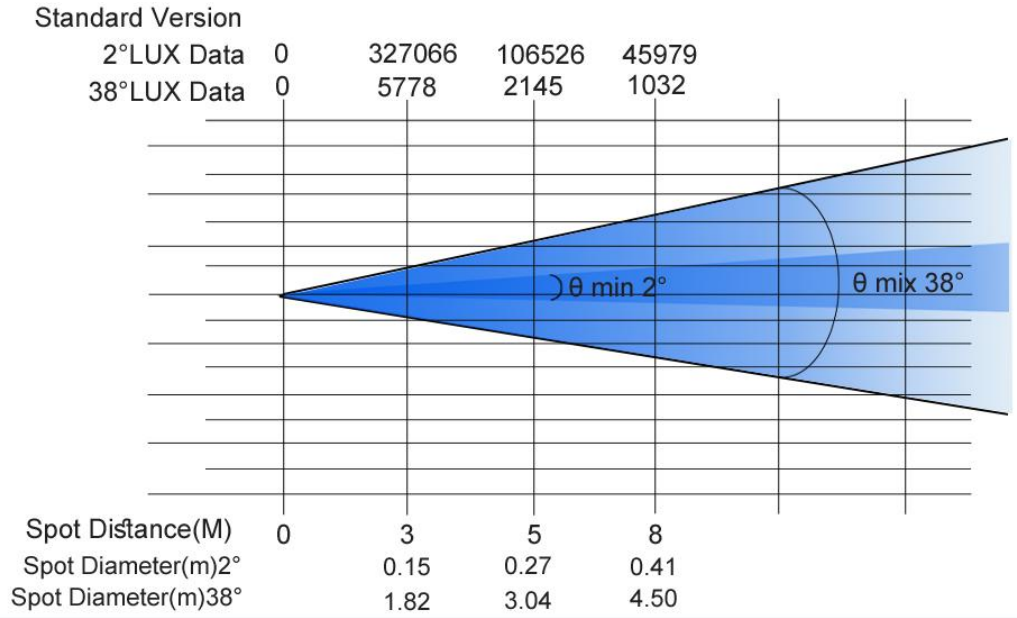
Standard mode	DMX Value	Function
1	0—255	Pan
2	0—255	Pan Low
3	0—255	Tilt
4	0—255	Tilt Low
5	0—255	P/T Speed
6		Macro function
	0-199	Reserve
	200-209	XY Reset
	210-219	Effect Reset
	220-229	All Reset
	230-255	Reserve
7		Shutter
	0-3	Closed
	4-103	STROBE SLOW to FAST
	104-107	Open
	108-207	Invert STROBE SLOW to FAST
	208-212	Open
	213-251	Random Strobe SLOW - FAST
	252-255	Open
8		Dimmer
	0—255	Linear Dimmer
9		CMY-C
	0—255	Linear
10		CMY-M
	0—255	Linear
11		CMY-Y
	0—255	Linear
12		CTO

	0—255	Linear
13		Colour
	0-4	White
	5-9	White+Colour 1
	10-14	Colour 1
	15-19	Colour 1+Colour 2
	20-24	Colour 2
	25-29	Colour 2 + Colour 3
	30-34	Colour 3
	35-39	Colour 3 + Colour 4
	40-44	Colour 4
	45-49	Colour 4 + Colour 5
	50-54	Colour 5
	55-59	Colour 5 + Colour 6
	60-64	Colour 6
	65-69	Colour 6 + Colour 7
	70-74	Colour 7
	75-79	Colour 7 + Colour 8
	80-84	Colour 8
	85-89	Colour 8 + Colour 9
	90-170	FAST ROTATION - SLOW ROTATION
	171-174	STOP
	175-255	SLOW ROTATION - FAST ROTATION
14		Static Gobo
	0-9	white1
	10-19	white2
	20-29	Gobo 1
	30-39	Gobo 2
	40-49	Gobo 3
	50-59	Gobo 4
	60-69	Gobo 5
	70-79	Gobo 6
	80-89	Gobo 7
	90-99	Gobo 8
	100-109	Gobo 9
	110-119	Gobo 1 Jitter

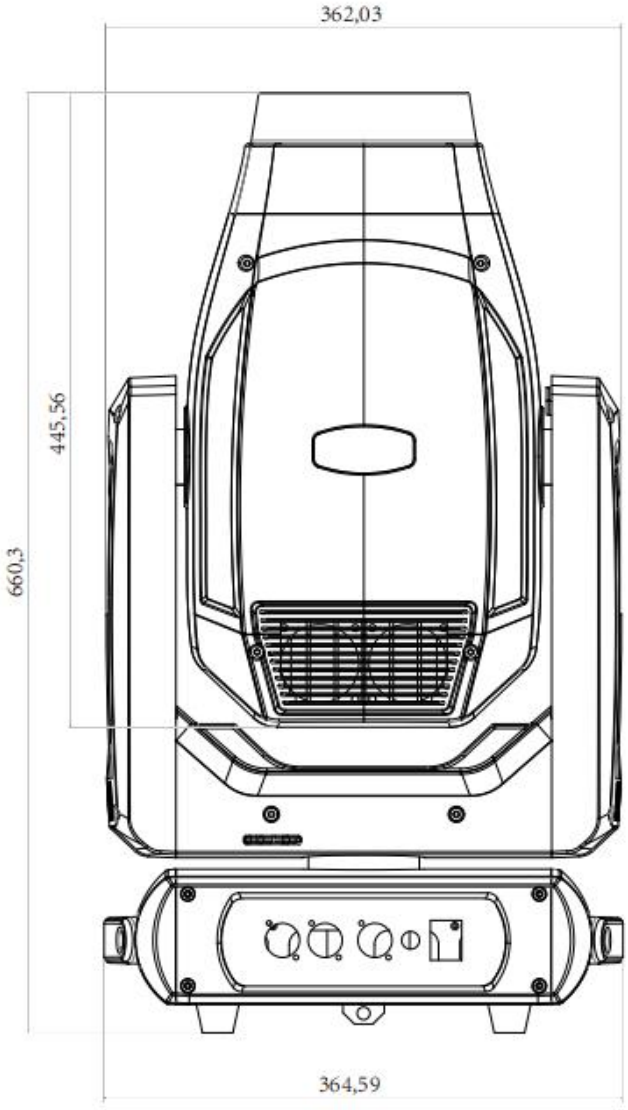
	120-129	Gobo 2 Jitter
	130-139	Gobo 3 Jitter
	140-149	Gobo 4 Jitter
	150-159	Gobo 5 Jitter
	160-169	Gobo 6 Jitter
	170-179	Gobo 7 Jitter
	180-189	Gobo 8 Jitter
	190-199	Gobo 9 Jitter
	200-225	FAST ROTATION - SLOW ROTATION
	226-229	STOP
	230-255	SLOW ROTATION - FAST ROTATION
15		Rot Gobo
	0-9	white
	10-19	Gobo 2 -1
	20-29	Gobo 2 -2
	30-39	Gobo 2 -3
	40-49	Gobo 2 -4
	50-59	Gobo 2 -5
	60-69	Gobo 2 -6
	70-79	Gobo 2 -7
	80-89	Gobo 2 -8
	90-99	Gobo 2 -1 Jitter
	100-109	Gobo 2 -2 Jitter
	110-119	Gobo 2 -3 Jitter
	120-129	Gobo 2 -4 Jitter
	130-139	Gobo 2 -5 Jitter
	140-149	Gobo 2 -6 Jitter
	150-159	Gobo 2 -7 Jitter
	160-169	Gobo 2 -8 Jitter
	170-213	FAST ROTATION - SLOW ROTATION
	214-255	SLOW ROTATION - FAST ROTATION
16		Gobo2/Rot
	0-127	Linear
	128-190	FAST ROTATION - SLOW ROTATION
	191-192	STOP
	193-255	SLOW ROTATION - FAST ROTATION

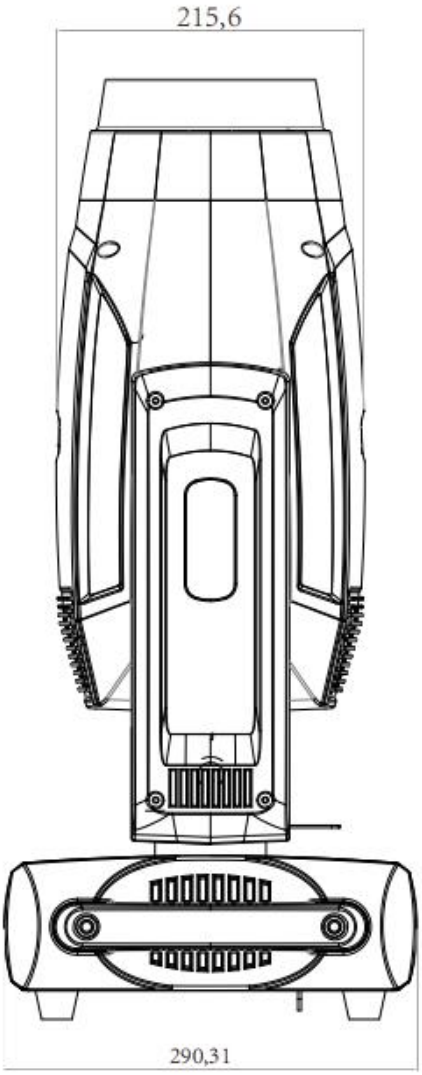
17		Prism-1
	0-255	Prism-1
18		Prism-1/Rot
	0—127	Rotation
	128—189	FAST ROTATION - SLOW ROTATION
	190—192	STOP
	193—255	SLOW ROTATION - FAST ROTATION
19		Prism-2
	0-255	Prism-2
20		Prism-2/Rot
	0—127	Rotation
	128—189	FAST ROTATION - SLOW ROTATION
	190—192	STOP
	193—255	SLOW ROTATION - FAST ROTATION
21		Frost
	0—127	Reserve
	128-255	Frost
22	0—255	Focus
23	0—255	Focus Fine
24		Zoom
	0—255	Linear Zoom
25	0—255	Zoom Fine

5.LUX Date



6.Trouble Shooting





7.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

8.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.