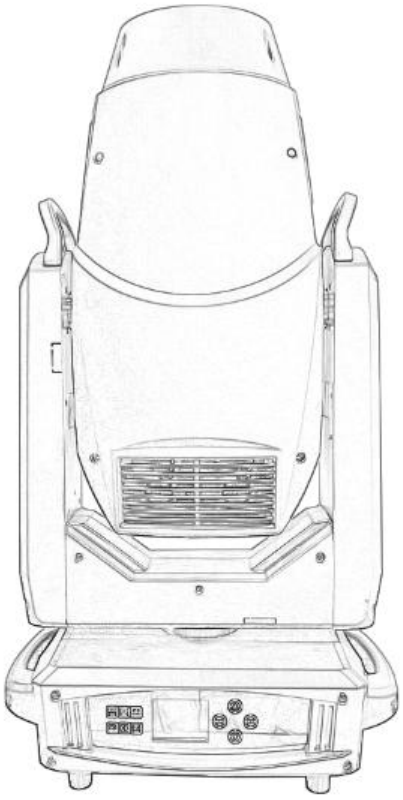
lighting PLUS

User manual



600 BSWF

Please read the instructions carefully before use

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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

Input Voltage: 100v-240v 50-60Hz
Power supply: 800W
Light source: 600W LED
Color temperature: 6500k
Spot angle: 4-50 degree
RDM function: DMX address code,channel mode and other functions can be changed from the console
Control mode: DMX512, automatic operation, master-slave mode
Channel mode: 35CH
Pan: 540 ° Tilt: 270 °
CMY independent color mixing system
CTO system: 0-100% linear CTO regulation
Color disc: 7 color chips + white led , rainbow effect, arbitrary positioning
Rotating pattern disc: 7 pluggable pattern pieces, pattern rotation, pattern flowing effect
Rotation pattern rotation: it can be positioned at any angle
Fixed pattern: 9 fixed patterns + white light, jitter water effect
Dynamic Effect Disk: An independent effect Disk can achieve the effects of water marks, flame and stars.
Cutting plate: 4 separate cutting pieces, can cut out various shapes, the cutting plate can rotate 90
Atomizing mirror: atomizing diffuser
Dimming: 0-100% linear dimming
Stroboscopic: synchronous pulse stroboscopic, random pulse stroboscopic
Prism disk :3 prism, bidirectional rotation effect
Focusing: the pattern can be adjusted freely and clearly
Zoom in: the size of the light spot can be adjusted from 4 degrees to 50 degrees
Display: 2.8-inch color LCD, Chinese and English display, reversible display menu operation
Fixture size: 424x 304x 764mm
Net weight: 29.5KG

3.Control Menu

Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
Fixture	Dmx Mode	35CH	
	Run Mode	DMX / Auto	
	Pan Invert	Close / Open	
	Tilt Invert	Close / Open	
	XY Coder	Close / Open	
	Dimmer Curve	Line/S-Cur/Squar/Cur4	
	Dimmer Speed	Smooth/Fast	
	Fan Mode	Auto/Quiet	
Manual	Pan	000 - 255	
	Pan Fine	000 - 255	
	Tilt	000 - 255	
	Tilt Fine	000 - 255	
Information	Time	Current Time	xxxH
		Total Time	xxxH
		Power Count	xxx
	Sensor	Pan	
		Tilt	
		Temp	
	Software Version	Panel	Vx.xx
		XY	Vx.xx
		Motor	Vx.xx
		CMY	Vx.xx
		Blade	Vx.xx
Factory	Password	000 - 255	
	Pan	000 - 255	
	Tilt	000 - 255	
	Dimmer	000 - 255	
	Color	000 - 255	
	Gobo1	000 - 255	
Fixture Reset	XY Reset	Cancel / Run	
	Motor Reset	Cancel / Run	

Fixture Reset	All Reset	Cancel / Run	
	Factory	Cancel / Run	
Display	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

4.DMX Channels

35 Channels

Channel	DMX Value	Function
1	0—255	Pan 8bit
2	0—255	Pan 16bit
3	0—255	Tilt 8bit
4	0—255	Tilt 16bit
5	0—255	P/T Speed
6	0—255	Shutter
	0-3	Closed
	4-103	SLOW - FAST
	104-107	Open
	108-207	FAST STROBE-SLOW STROBE
	208-212	Open
	213-251	RANDOM SLOW - FAST
	252-255	Open
7	0—255	Dimmer
		Linear Dimmer
8	0—255	Dimmer Fine
		Linear Dimmer Fine
9	0—255	CMY-C
		Linear
10	0—255	CMY-M
		Linear
11	0—255	CMY-Y
		Linear
12	0—255	CTO

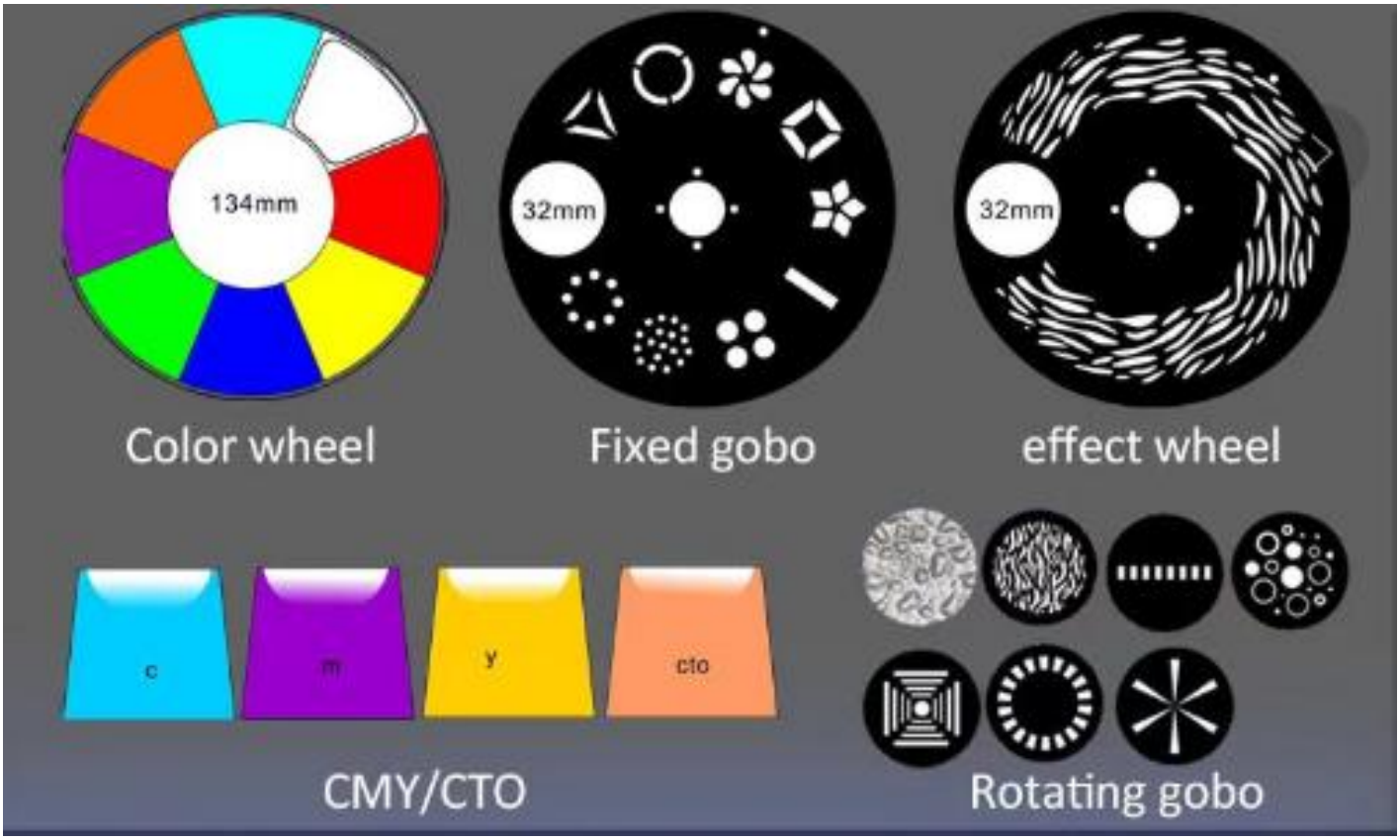
13		Linear
	0-7	White
	8-15	Color1
	16-23	Color2
	24-31	Color3
	32-39	Color4
	40-47	Color5
	48-55	Color6
	56-63	Color7
	64-127	Color Linear
	128-189	FAST ROTATION - SLOW ROTATION
	190-193	STOP
	194-255	SLOW ROTATION - FAST ROTATION
14	0—255	Fixed Gobo
	0-9	white
	10-19	Gobo 1
	20-29	Gobo 2
	30-39	Gobo 3
	40-49	Gobo 4
	50-59	Gobo 5
	60-69	Gobo 6
	70-79	Gobo 7
	80-89	Gobo 8
	90-99	Gobo 9
	10-109	Gobo 1 Jitter
	110-119	Gobo 2 Jitter
	120-129	Gobo 3 Jitter
	130-139	Gobo 4 Jitter
	140-149	Gobo 5 Jitter
	150-159	Gobo 6 Jitter
	160-169	Gobo 7 Jitter
	170-179	Gobo 8 Jitter
	180-189	Gobo 9 Jitter
	190-220	FAST ROTATION - SLOW ROTATION
	221-224	STOP
	225-255	SLOW ROTATION - FAST ROTATION

15	0—255	Rotation Gobo
	0-9	white
	10-19	Gobo 1
	20-29	Gobo 2
	30-39	Gobo 3
	40-49	Gobo 4
	50-59	Gobo 5
	60-69	Gobo 6
	70-79	Gobo 7
	80-94	Gobo 1 Jitter
	95-109	Gobo 2 Jitter
	110-124	Gobo 3 Jitter
	125-139	Gobo 4 Jitter
	140-154	Gobo 5 Jitter
	155-169	Gobo 6 Jitter
	170-184	Gobo 7 Jitter
	185-217	FAST ROTATION - SLOW ROTATION
	218-222	STOP
	223-255	SLOW ROTATION - FAST ROTATION
16	0—255	Gobo Rotation
	0—127	Linear
	128-190	FAST ROTATION - SLOW ROTATION
	191-192	STOP
	193-255	SLOW ROTATION - FAST ROTATION
17	0—255	Effect Gobo
	0-9	white
	10—99	Linear
	100-184	Effect Gobo Jitter
	185-217	FAST ROTATION - SLOW ROTATION
	218-222	STOP
	223-255	SLOW ROTATION - FAST ROTATION
18	0—255	Prism
	0-127	Reserve
	128-255	Prism Insert
19	0—255	Prism-1 Rotation
	0—127	Rotation

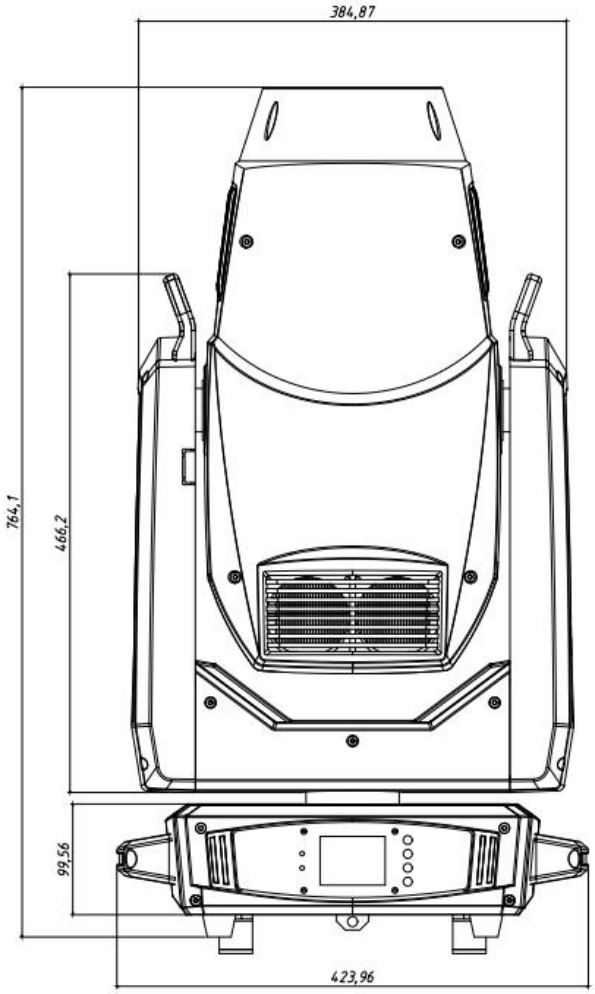
	128-190	FAST ROTATION - SLOW ROTATION
	191-192	STOP
	193-255	SLOW ROTATION - FAST ROTATION
20	0—255	Frost
	0-127	white
	128-255	Frost
21	0—255	Focus
	0-255	Focus，Linear
22	0—255	Focus Fine
	0-255	Focus Fine，Linear
23	0—255	Zoom
	0-255	Zoom，Linear
24	0—255	Zoom Fine
	0-255	Zoom Fine，Linear
25	0—255	Blade1-1
	0-255	Linear
26	0—255	Blade1-2
	0-255	Linear
27	0—255	Blade2-1
	0-255	Linear
28	0—255	Blade2-2
	0-255	Linear
29	0—255	Blade3-1
	0-255	Linear
30	0—255	Blade3-2
	0-255	Linear
31	0—255	Blade4-1
	0-255	Linear
32	0—255	Blade4-2
	0-255	Linear
33	0—255	Blade Rotation
	0-255	Linear
34	0—255	Iris
	0-255	Linear
	0—255	Function
	0-29	Reserved

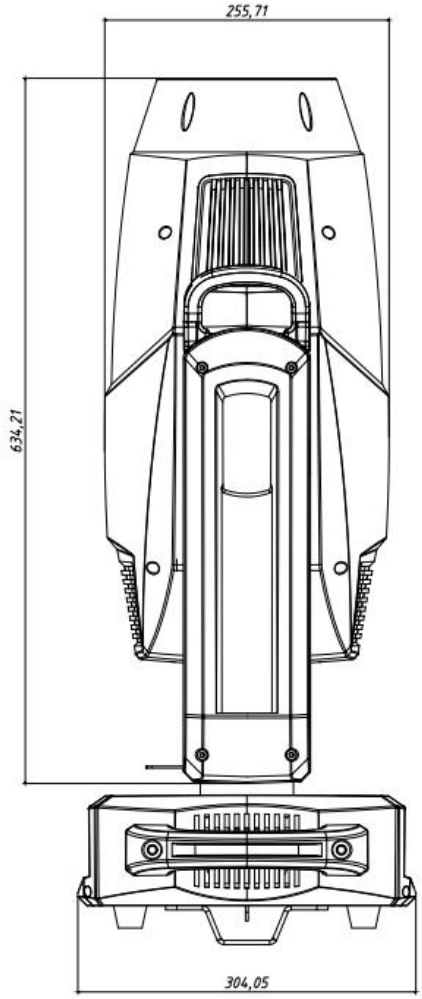
35	30-39	Dimmer Curve：Square
	40-49	Dimmer Curve：Inverse Square
	50-59	Dimmer Curve：S-Curve
	60-69	Dimmer Curve：Linear
	70-79	Fan Mode：Auto
	80-89	Fan Mode：Quiet
	90-179	Reserved
35	180-189	Dimmer Speed:Fast
	190-199	Dimmer Speed:Smooth
	200-209	All Reset
	210-219	Effect Reset
	220-229	Pan&Tilt Reset
	230-255	Reserved

Gobo effects :



5.Dimension





6.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

7.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.