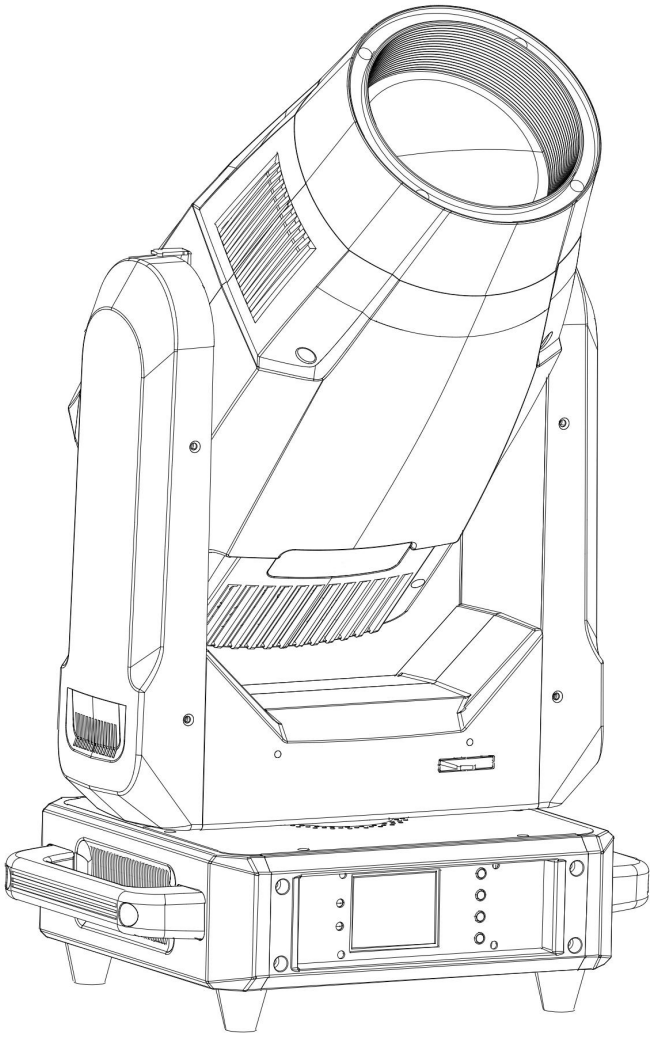
SPARTAN

SP-LED550W BSW



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!
We are confident that our excellent products and service can satisfy you.
For your own safety, please read this user manual carefully before installing the device.
In order to install, operate, and maintain the lighting safety correctly.
We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!
Keep this device away from rain and moisture!



CAUTION!
Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of this device has to:
-be qualified
-follow carefully the instructions of this manual

INTRODUCTION

Thank you for having chosen this professional moving head.
You will see you have acquired a powerful and versatile device.
Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Folding Clamp
4. One safety rope
5. One English user manual

（Flight case is optional, please contact your dealer）
Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6th page of this manual.
Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.
While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.
If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.
For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

SAFETY INSTRUCTIONS

CAUTION!



Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.
1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.
2. Always mount this unit in safe and stable matter.
The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ **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.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.
This device falls under protection-class Ⅰ. Therefore it is essential that the device be earthed.
The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord. During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.
Please don't project the beam onto combustible substances.
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



CAUTION!

Never touch the device during operation!

The housing may heat up!



CAUTION!

Never look directly into the light source,

As sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.

CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

TECHNICAL PARAMETERS

POWER SUPPLY
Input voltage: 100-240V AC, 50/Hz
Power consumption: 800W@220V

LIGHT SOURCE
Light source specification: Imported LED Module engine 550W
Light source life: 20000 hours
Lumen illuminance: 5 meters 168000LX
LED Source Color temperature: 7000K
High Brightness Version:
LED Source CRI: Ra>70, CRI filter Ra>80
High CRI Version:
LED Source CRI: Ra>80, CRI filter Ra>90, brightness reduce 20%

OPTICS
Dimming: 0-100% linear adjustment
Frost: Independent atomization
Focus: DMX linear adjustment
Variable strobe

CONTROL AND PROGRAMMING
Channel mode: 39CH (Compatible Mega Pointe)
AC power in/thru: Seetronic PowerCon ture1
DMX data in/out: 3-pin locking XLR
Programming: DMX512,RDM
Housing: High temperature resistant flame retardant nylon plastics

EFFECT SECTION
Colour: 1 Color Plate (8 colors + White light),
CMY color Mixing
CTO linear adjust
CTB 9000K
Fixed gobos: 1 Fixed Gobo Wheel with 12 Gobos
-10 Glass Gobos(Outer 19.5mm, inner 12mm) + 2 Metal Gobos + White
Rotating gobos: 7 rotating glass gobos (Outer 22.8mm, inner 14mm)
Prism system: 4 prism + single 6 linear prism, rotating bi-directions

MOVING BODY
Pan/Tilt: 540°/270 degrees (16bit precision scanning)
Cooling method: Adopt axial fan to enhance cooling
Safety device:
Electronic temperature control overheating protection,electronic temperature control automatic power-off protection when the overheating system fails
Working environment: -20°C to 40°C
Protection level: IP20

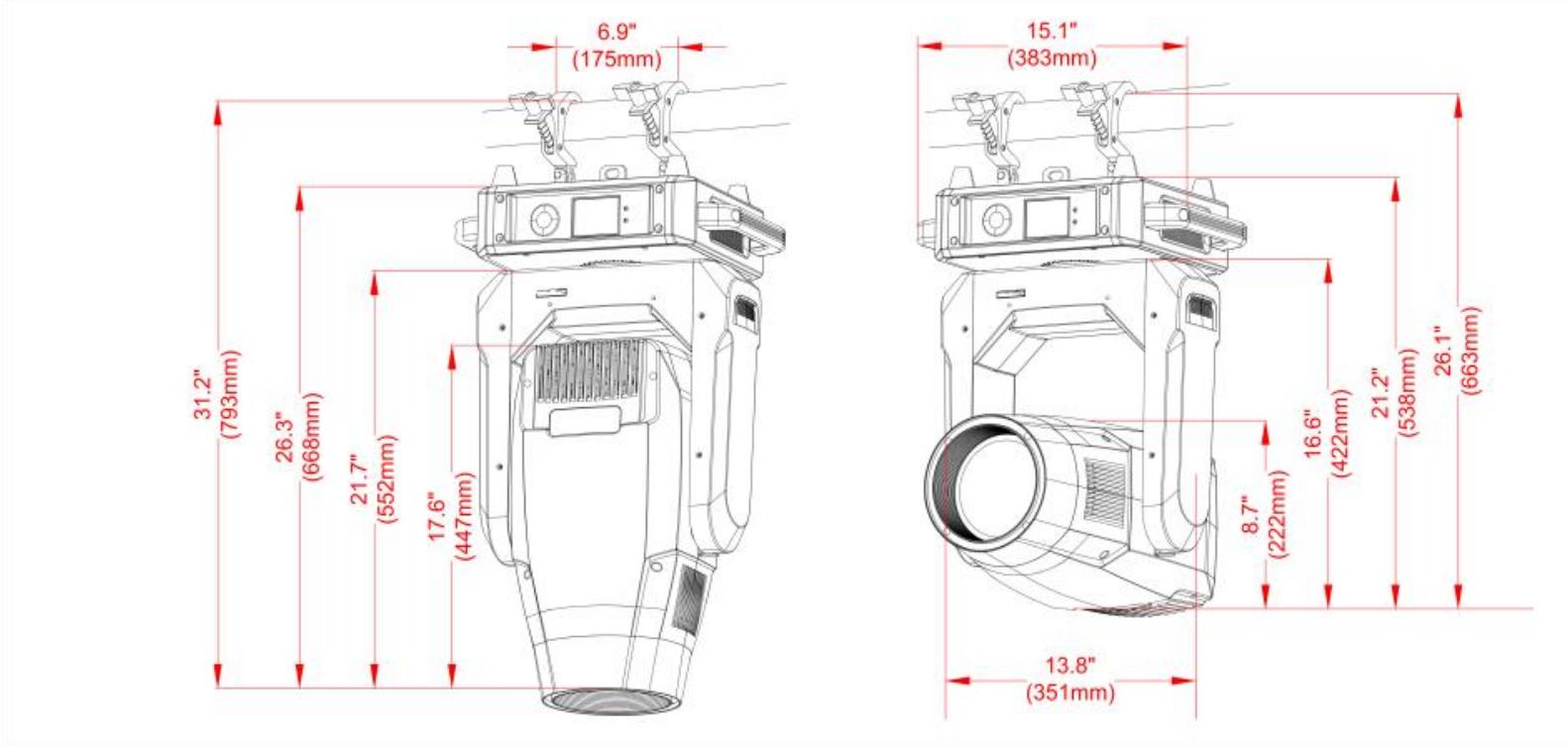
WEIGHT&DIMENSION

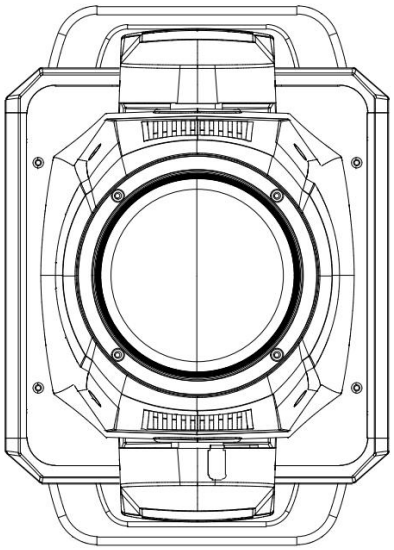
Product net weight: 23.5KG

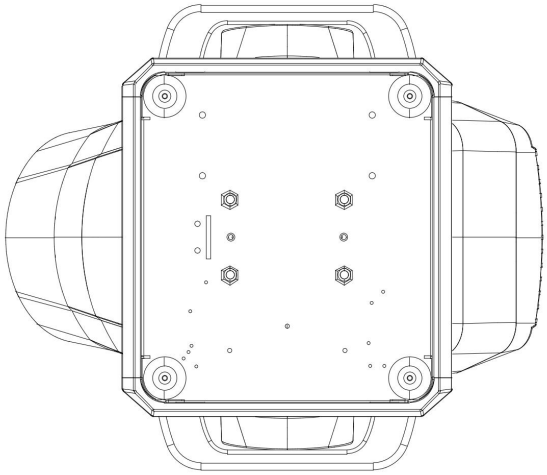
Product size: 383x274x668mm (L*W*H)

Packing size:750x360x465mm (L*W*H)

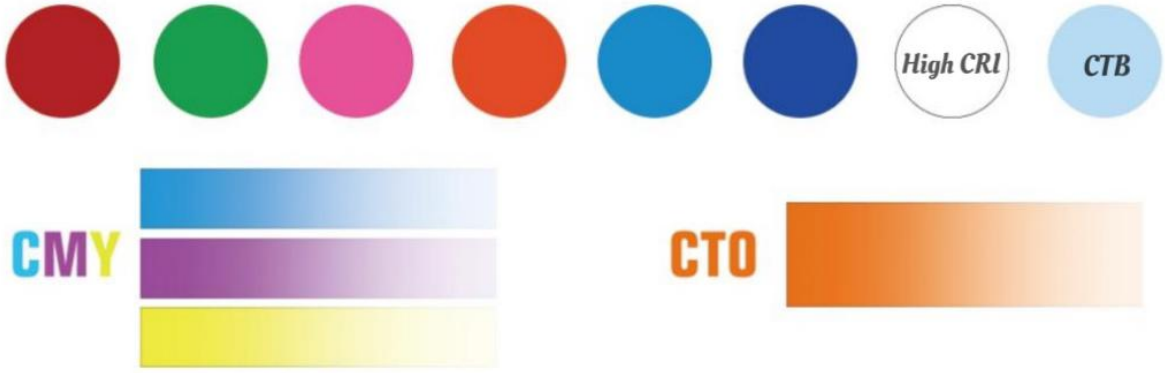
DRAWING



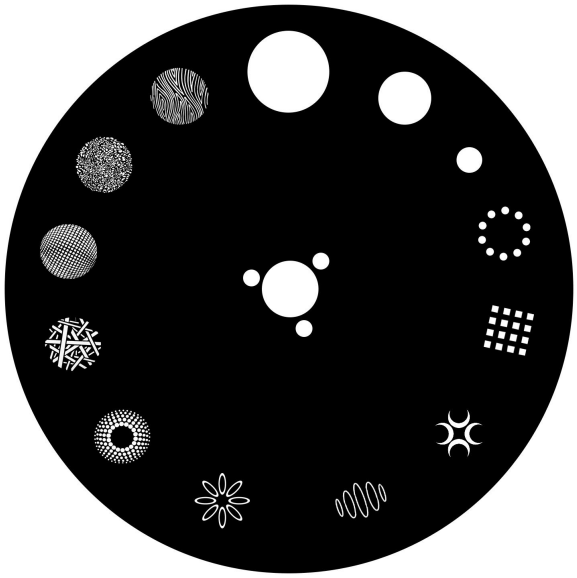


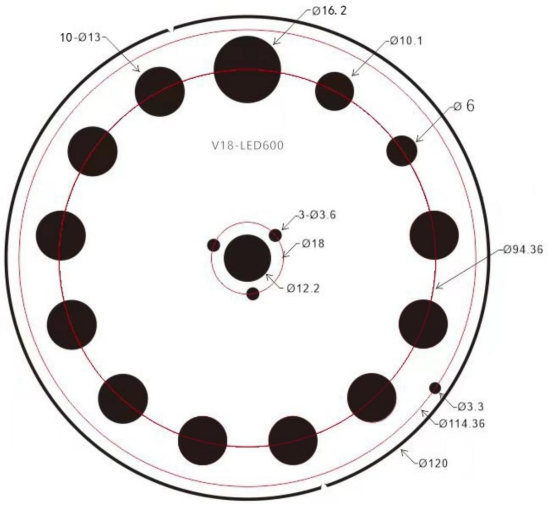


COLOR SYSTEM

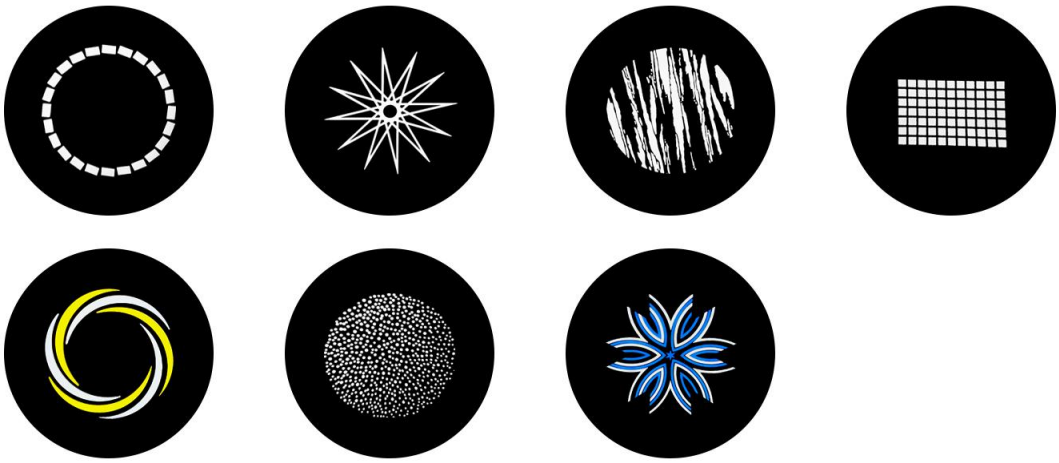


GOBO WHEELS



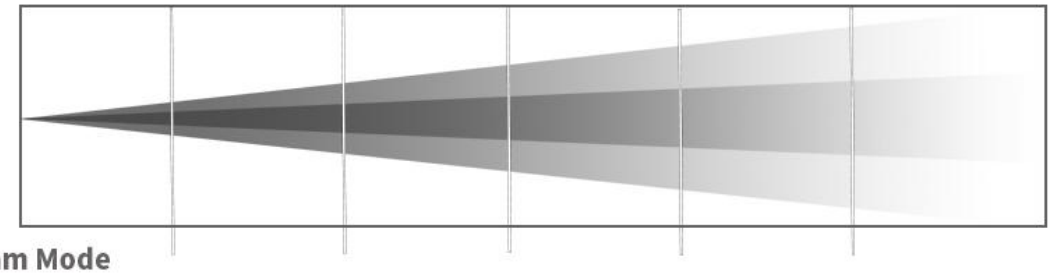


Outer 19.5mm, inner 12mm



Outer 22.8mm, inner 14mm

PHOTOMETRICS



Beam Mode

distance(M)	5	10	15	20	25
illumination(LX)	168000	59000	21000	14100	9800
spot diameter(CM)	∅34	∅53	∅80	∅107	∅140

Spot Mode

distance(M)	5	10	15	20	25
illumination(LX)	168000	59000	21000	14100	9800
spot diameter(CM)	∅47	∅88	∅134	∅187	∅220

CHANNEL LIST - COMPATIBLE MEGA POINTE

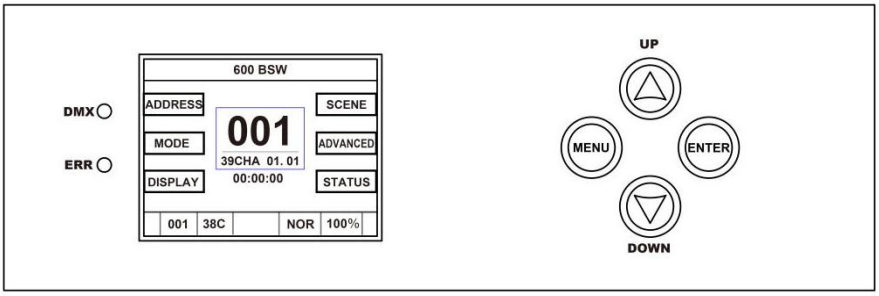
39CH	FUNCTION	VALUE	DESCRIPTION
1	Pan	0-255	0-540°
2	Pan fine	0-255	0-2°
3	Tilt	0-255	0-270°
4	Tilt fine	0-255	0-1°
5	P/T speed	0-255	From fast to slow(0=default)
6	Reset/ function	0-139	None
		140-149	Reset the PT motor after 3 seconds
		150-159	Reset color wheel after 3 seconds
		160-169	Reset gobo wheel after 3 seconds
		170-179	Reset dimmer/shutter after 3 seconds
7	Cyan	0-255	Cyan from min. saturation --> full cyan (0=default)
8	Magenta	0-255	Magenta from min. saturation --> full magenta (0=default)
9	Yellow	0-255	Yellow from min. saturation --> full yellow (0=default)
10	Color wheel	0	Open/white(0=default)
		1-127	Continual positioning
		128-129	White
		130-134	Red
		135-138	Green
		139-143	Pink
		144-147	Orange
		148-152	Cyan

		153-157	UV
		158-161	High CRI
		162-166	CTB 9000K
		167-189	CTO continual positioning
		190-215	Forwards rainbow effect from fast to slow
		216-217	Stop
		218-255	Backwards rainbow effect from slow to fast
11	Color wheel-Fine	0-255	Fine positioning(0=default)
12	CMY Macro	0-255	The channels are blocked: Cyan,Magenta,Yellow.
14	CMY wheel time	0-255	From fast to slow(0=default)
15	Zoom＆Focus time	0-255	From fast to slow(0=default)
16	CTO	0-255	2700K-7000K
17	High CRI	0-255	0=default
18	CTB	0-255	0=default
19	Static gobo	0-3	Open/Hole(0=default)
		positioning	
		4-9	Gobo 1
		10-15	Gobo 2
		16-21	Gobo 3
		22-27	Gobo 4
		28-33	Gobo 5
		34-39	Gobo 6
		40-45	Gobo 7
		46-51	Gobo 8
		52-57	Gobo 9
		58-63	Gobo 10
		64-69	Gobo 11
		70-87	Open
		Shake	
		88-95	Gobo 1
		96-103	Gobo 2
		104-111	Gobo 3
		112-119	Gobo 4
		120-127	Gobo 5
		128-135	Gobo 6
		136-143	Gobo 7
		144-151	Gobo 8
		152-159	Gobo 9
		160-167	Gobo 10
		168-175	Gobo 11
		176-183	Gobo 12
		184-191	Gobo 13
		192-199	Gobo 14

		200-201	Open
		202-222	Forwards gobo wheel rotation from fast to slow
		180-189	Reset zoom/focus after 3 seconds
		190-199	Reset effect wheel after 3 seconds
		200-209	Reset all after 3 seconds
		210-255	None
		223-255	Backwards gobo wheel rotation from slow to fast
20	Rotating gobo	***Index***	***Index - set indexing on channel 21***
		0	Open/Hole (0=default)
		1-4	Hole(flat field)
		5-7	Gobo 1
		8-10	Gobo 2
		11-13	Gobo 3
		14-16	Gobo 4
		17-19	Gobo 5
		20-22	Gobo 6
		23-31	Gobo7
		Rotation	***Rotation - ser rotation on channel 21***
		32-34	Gobo 1
		35-37	Gobo 2
		38-40	Gobo 3
		41-43	Gobo 4
		44-46	Gobo 5
		47-49	Gobo 6
		50-59	Gobo 7
		Shake-index	***Shaking gobo from slow to fast***
			Index - set indexing on channel 21
		60-67	Gobo 1
		68-75	Gobo 2
		76-83	Gobo 3
		84-91	Gobo 4
		92-99	Gobo 5
		100-107	Gobo 6
		108-129	Gobo 7
		Shake-Rotation	***Shaking gobo from slow to fast***
			Index - set indexing on channel 21
		130-137	Gobo 1
		138-145	Gobo 2
		146-153	Gobo 3
		154-161	Gobo 4
		162-169	Gobo 5
		170-177	Gobo 6
		178-199	Gobo 7
		200-201	Open/hole
		202-222	Forwards gobo wheel rotation from fast to

			slow
		223-255	Backwards gobo wheel rotation from slow to fast
21	Rot.Rotating gobo	***Gobo indexing - set position on channel 20***	
		0-255	Gobo indexing
		Gobo rotation - set position on channel 20	
		0	No rotation
		1-127	Forwards gobo wheel rotation from fast to slow
		128	No rotation
		129-255	Backwards gobo wheel rotation from slow to fast
22	Rot.Rotating gobo-Fine	0-255	Fine indexing/rotation (0=default)
23	Prism wheel 1	0-255	Open position/hole(0=default)
24	Prism 1 rotation	0-255	
25	Prism wheel 2	0-255	Open position/hole(0=default)
26	Prism 2 rotation	0-255	
27	Prism Macro	***The channels are blocked: channel 23,24,25,26***	
		0-3	Open position/hole(0=default)
		4-11	Effect 1
		12-19	Effect 2
		20-27	Effect 3
		28-35	Effect 4
		36-43	Effect 5
		44-51	Effect 6
		52-59	Effect 7
		60-67	Effect 8
		68-255	None
31	Frost	0-255	Open (0=default)
32	Zoom	0-255	Zoom from min. to max.beam angle (128=default)
33	Zoom-fine	0-255	Fine zooming(0=default)
34	Focus	0-255	Continuous adjustment from far to near (128=default)
35	Focus-fine	0-255	Fine focusing(0=default)
36	Auto Focus	***The channels are blocked: Focus***	
		0-255	0-10 None;11-54 5M;55-104 10M;105-154 15M;155-204 20M;205-255 25M
37	Shutter	0-255	(255=default)
38	Dimmer	0-255	Dimmer intensity from 0% to 100% (0=default)
39	Dimmer-fine	0-255	Fine dimming(0=default)

CONTROL PANEL



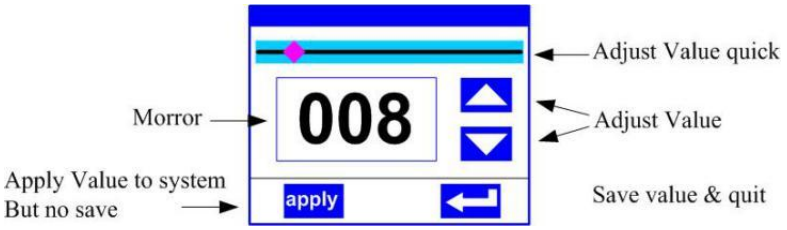
The schematic diagram of the lamp panel is shown in the figure. The title above shows the name of the lamp, while the status bar below shows the signal, bulb status and fault of the current lamp (" ERR "is displayed when failure information is not checked, or" NOR "is displayed).

The lamp supports DMX/RDM protocol. When the lamp is searched by the RDM host, three letters "RDM" will appear on the panel, indicating that the lamp is enumerated normally.

Display window function control

Parameter value input

When the selected parameter needs to enter a value, the window as shown in the figure will open:

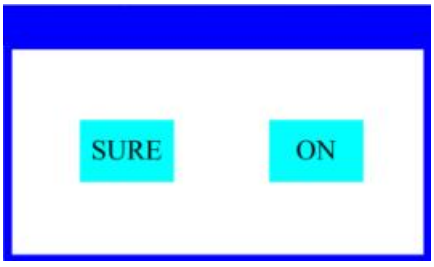


- **set numerical**： click the "up" or "down" button on the right precise numerical or supplemental input set required Settings.
- **Applied value**：When the data is set by "up" or "down" button, then press the "apply" key in the lower left corner, the value is immediately sent to the lamp, but the value is not saved.

Save value：At any time, click the "ENTER" key in the lower right corner, that is,

- to save the current value to the internal storage, the next startup to save the value applied to the lamp.
- Set Boolean parameters
- when setting the parameters for Boolean values (such as ON or OFF), the switch directly click ON the corresponding item parameter value, the parameters of the modified will be saved to the internal storage. Press the parameter option on the right and the corresponding option will be grayed out. When the hand is released, the corresponding parameters are changed and saved. If pressing the parameter option is not the parameter you want to change, you can move your finger to another part of the screen and the corresponding parameter will not change.

important determine through Boolean parameters, determine the window to set, as shown in the figure below:



Subpage (parameter)



Figure 6-1

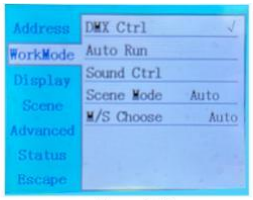


Figure 6-2



Figure 6-3

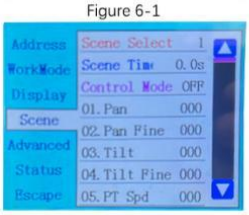


Figure 6-4

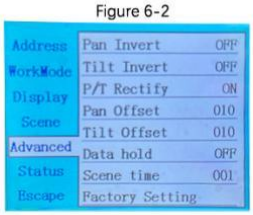


Figure 6-5

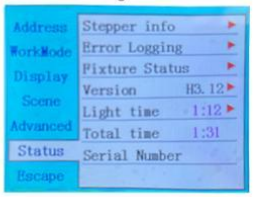


Figure 6-6

Functional operation and parameter setting

- In the main interface, you can enter the corresponding parameter setting interface by selecting six buttons.

In the parameter setting interface, you can press the left blue option toquickly switch to the other setting interfaces.

1.Set up the DMX address code

The DMX address and channel mode of the lamp can be set on the page as shown in Figure 6-1.

The menu setting of the lamp optimizes the setting of the address, and the address code operation is as follows:

- Select "Last" or "Next", the lamp will automatically calculate based on the current address code and channel dataOne or the last one of the address code, you can quickly set;
- click the address code number, can enter the numerical editor window, here you can set the address code of any effective, automatic access to the current channel number of lamps and lanterns of lamps and lanterns, automatic filter do not use the address code (512 - the current channel number).
- support RDM protocol of lamps and lanterns, lamps and lanterns can be set by RDM remote address code.
- Two buttons are provided:
- Channel mode: Different channel modes can be selected cyclically.
- reset of lamps and lanterns: reset all motors.

2.Set the working mode of the lamp

Set the running mode of the lamp, as shown in Figure 6-2. The lamp supports four operating modes (DMX mode, self-propelled mode, voice-controlled mode and scene mode). Please refer to the previous section for detailed parameter setting. The specific parameter description is shown in the following table:

Operational mode

<table>
<tr><td>DMX mode</td><td colspan="2">Console mode, receiving the DMX signal, and the RDM signal</td></tr>
<tr><td>Self-walking mode</td><td colspan="2">The lamp runs automatically according to the built-in program</td></tr>
<tr><td>Sound control mode</td><td colspan="2">When the lamp detects a strong sound, the lamp automatically runs a scene according to the built-in program, otherwise maintain the last scene</td></tr>
<tr><td rowspan="3">Scene mode 01</td><td colspan="2">The above set scenario runs in the same mode and supports custom editing of up to 10 scenes</td></tr>
<tr><td>1~10</td><td>Outputs the specified scene</td></tr>
<tr><td>automatic</td><td>Automatically output the scene in the set scene time (non-0) order, and the scene with time 0 is automatically skipped</td></tr>
<tr><td>Master from choice</td><td colspan="2">When non-DMX mode, select the data output mode, the lamp automatically detects the DMX state and automatically switch the output to prevent data conflict</td></tr>
</table>

master	The lamp runs as built-in, if DMX has no signal, output data (synchronization), otherwise no data output
slave	Lamlamp operate as built-in, no output data (not synchronized with other lamps)
Auto	If the DMX has no signal, the lamp operates as built in, otherwise, the lamp works with the DMX signal

Scene mode is suitable for a single set or a small number of lamps, only need to output a fixed scene, or need to run a simple program, can be edited in the scene page without connecting the console.

If the light source is a bulb, wait 10 minutes before turning the bulb turned off.

Panel display settings

Enter the corresponding parameter setting as shown in Figure 6-3. The specific menu contents are shown in the following table:

Display settings

Screen protection	Set the display content or mode of the screen after the screen has no operation within 30 seconds	
	close	Keep the last operation page up and light up the screen
	Mode 1	Out of the screen
	Mode 2	Black screen, showing the address code of the current lamp in the lower left corner
	Mode 3	Displays the trademark information, address code and operation mode
Screen rotation	Set the display direction of the screen	
	close	No reversal is shown
	open	Reverse display
	Auto	Automatically detect the direction of lamp and automatically switch the display direction
DMX indicate	Set the indication mode of the DMX signal indicator light	
	Mode 1	When the signal is bright, and when there is no signal, go out
	Mode 2	Out when signal, bright when no signal
	Mode 3	Blink when signal, extinguish when no signal
The signal indicates brightness	Set the brightness of the signal indicator light	
	1~10	Ten grades
Screen backlight	Set the brightness of the screen backlight after 10 seconds of no operation, full bright during operation	
	1~10	Ten grades

3.Scene mode

Entering the page, the lamp enters the scene editing mode. Under this page, the lamp does not receive the DMX console data, and the edited data is immediately reflected on the lamp.

The content of the page depends on the currently selected channel, and the channel content and order displayed are consistent with the lamp channel table. Through this page, 10 scenes can be edited, as shown in the following table:

Scene mode

Scenario selection	Select the current required action scenario	
	1~10	10 scenarios
Scene time	Sets the retention time of the current scene in 0.1 seconds	
	0	The current scene does not participate in the automatic scene output

	1-255	0..1s thru 25.5s
1. pan	0-255	Set the data of each channel, the display content and sequence correspond to the channel table of the lamp
……	0-255	
……	0-255	
N. function	0-255	

If the effective reset data is edited in the reset channel in the scene, the lamp will reset, but after reset, the value of the corresponding reset channel will automatically reset to prevent multiple consecutive reset.

On this page, you can get the current channel table order of the lamp. Please refer to the detailed channel description for the specific channel data.

4.Set the working parameters of the lamp

Enter the page shown in Figure 6-5, adjust the field parameters of lamps, and facilitate the field installation of lamps:

Advanced setup

Pan Invert	Set the X-axis rotation direction	
	OFF	Don't reverse
	ON	reverse
Tilt Invert	Set the Y-axis rotation direction	
	OFF	Don't reverse
	ON	reverse
P/T Rectify	Set whether the lamp detects XY misstep and correct	
	OFF	Position is not corrected after the misstep
	ON	Automatic correct the position after the lost step and record the lost step fault
Pan Offset	Set the position of the lamp	
	4-150	
Tilt Offset	Set the position of the Y axis of the lamp	
	4-48	
Data hold	Set the output status of the lamp when the lamp has no DMX signal	
	OFF	No signal, so the motor and the light source return to the position and state when the reset is complete
	ON	No signal, keeping the last frame of the DMX data output
Factory Setting	The confirmation box pops up. After selecting "SURE", the lamp parameters return to the factory settings	

When the lamp cannot correct the position, first check whether the optical coupling correction is closed.

When the signal is removed, if the lamp position is not output as intended, check the Data Hold setting first.

When setting the XY offset, after completing the setting, please control the XY with the maximum stroke to check the setting, XY will not hit the positioning rod.

5.View the current status of the lamp

Entering the page shown in Figure 6-6, you can view the information and real-time status of the lamps to know the use status of the lamps. If the lamps need an after-sales service, please provide the status information displayed on the page as the judgment basis, as shown in the following table:

Status information

Stepper info	Display the information status of all the motors and signals in the lamp	
	Hoare	Not shown, means the motor has not Hall corrected, 0 means the motor leaves the correction position point, and 1 means the motor is at the correction position point
	status	Show the motor reset completion state
	Pan	Displays the real-time position value of the X-axis optical coupling feedback
	Tilt	Display the real-time position value of the Y-axis optical coupling feedback
	optocoupler	Show the level state of two signals with X and Y axis, binary
Error Logging	Display the last 8 fault records of lamp reset and operation, the fault records are not saved after power failure, when the next power cycle is valid	
	Fault data	Total number of faults detected after power-on
	12：:03	Power time in minutes
	Hall fault	The corresponding motor does not detect an effective Hall signal when the motor is reset
	Hall short circuit	The Hall signal of the motor detected at the corresponding motor reset is always valid
	Optical coupling failure	No effective photocoupling signal is detected when the corresponding motor is reset
	fall out step	The corresponding motor loses its step during operation
	Crash rod	Cragainst the positioning lever when the motor is reset
	Bulb failure	Light bulb accidentally extinguished
	Sensor failure	Temperature sensor signal is abnormal
	Fan fault	The main fan is not working properly
Fixture Status	Displays the critical status data for the current lamp for reference	
	communication	0~100%, the communication quality of the data link within the lamp
	miscount	The number of error frames detected after power, accumulated
	Light source temperature	Show the temperature of the current light source, "- - -" indicates no detection
	Display plate temperature	Displays the temperature of the current display board or the nearby ambient temperature
	Sensor 1 temperature	Displays the current motherboard temperature or the ambient temperature at the motherboard installation location
Version	Display the information and version of current lamps and an important reference for after-sales maintenance	
	equipment	Name of lamp, same to equipment information of RDM
	model	Model of lamp, same as model information of RDM
	display panel	Firmware version and serial number of the display board
	motherboard 1	Firmware version and serial number of the motherboard 1
Light time	Record the total accumulative time of the light source, as a reference for regular maintenance of the light source	
Total time	Record the total cumulative time of lamp opening, unit minutes, do not clear	

CONNECTION

Power connection (The power supply and fuse configuration are shown in the table below)

Power	fuse
100V-240V~	T8A，250V

If the external soft cable or flexible cable of the lamp is damaged, the soft line shall be replaced with a soft cable or flexible cable specially provided by the manufacturer or its service agent.

- current projection distance.

The person connecting the power supply must confirm that the power supply voltage used must meet the voltage indicated by the lamp, and must be protected by overload or leakage.

Do not connect too many lamps,or overload the work with a single power cable.

Do not use the power cord with damaged insulation, and do not place the power cord on other wires.

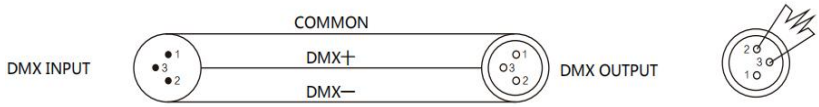
Unplug the power cord when the lamp is not used or clean.

Do not unplug or drag the powercord.

Wire color	plug	sign
brown	Live Wire	L
Blue	Neutral wire	N
Yellow/Green	Earth	⏚

Signal connection

DMX512 link



In order to reduce signal errors and avoid signal weakening and interference during transmission, a 120 ohm 1 / 4W resistance can be added between the two and three cores of the DMX output of the last machine.

Connect the lamp with the XLR signal line, one end is connected to the output port of the lamp, and the other end is connected to the input port of the next lamp. Signal lines can only be used in series, not in parallel. Because the DMX512 signal transmission speed is very fast, when the signal line is damaged, the welding place is not strong, the contact is not good, will affect the signal transmission, resulting in the system closed.

When the machine power of a unit is disconnected, the connection between DMX output and input is bypassed to maintain the connection of DMX lines

Each light should have an address code that can receive information from the console.

DMX512 The terminal of the system needs to be equipped with a terminal to reduce errors in signal transmission.

RDM use considerations

RDM is an extended version of DMX512-A protocol, which is the remote device management (Remote Device Management) protocol, traditional

- DMX512 protocol communication is one-way communication, protocol is based on RS-485 bus, RS-485 is time-sharing multi-point and semi-duplex protocol, only one port is allowed for host output at the same time, so the following points should be noted when using RDM:
- To use a console or host device that supports the RDM protocol host;
- To use the two-way signal amplifier, the traditional one-way signal amplifier is not applicable to the RDM protocol, because the RMD protocol needs feedback data, the use of the one-way amplifier will block the returned data, resulting in the search of lamps;
- When the lamp is subject to DMX control, but can not RDM search the lamp, first check the signal amplifier, and then check whether the 2 and 3 lines of the signal line have poor contact.
- All lamps must be set to DMX mode to ensure that there is only one host on the signal line;

A 120 ohm impedance matching resistance must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is relatively long, the signal reflection, which is conducive to the quality of communication.

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.