

Showco Spot 250 S

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ENGLISH INDEX

1) Open the box and checking-----	Page 1
2) Safety instructions-----	Page 1
3) Operating determinations -----	Page 2
4) Dimensions -----	Page 3
5) Install the lamp -----	Page 4
6) Installing the projector -----	Page 5
7) Control connections -----	Page 5
8) Control Board Operation-----	Page 6
9) DMX512 Channel function setting-----	Page 8
10) Specification-----	Page 16
11) Beampath-----	Page 16
12) Electrical diagram-----	Page 17
13) Structure of the fixture-----	Page 18
14) Common faulty maintain-----	Page 19
15) Component antitheses-----	Page 20
16) Maintain -----	Page 21
17) Announcement -----	Page 21

Please read over this manual before operation the light

1. Open the box and checking

Congratulations on choosing our products! Please carefully read this instruction manual in its entirety and keep it well for using reference. This manual contained about the installation and the relative using information of this products. Please according to this manual's relative speaking when using this equipment.

This equipment was made of new style, high intensity plastic and cast aluminium. It fully shows the modern times light characteristic with beauty structure. And it was made according to CE standard. Fully up the international standard of DMX512 agreement. Master or slave in phase control. Can be use in large entertainment, theater, performing and playing hall, etc.

When receiving this product please carefully bring and put; and check that whether this equipment has been damaged or not during transportation. And please also check the following thing was enclosed:

Signal line -----	1 PC	Safety string -----	1 PC
User Manual-----	1 PC	Hanging bracket-----	2 PCS

2. Safety instructions

Every person involved with installation and maintenance of this device have to:

- be qualified
- follow the instructions of this manual

CAUTION:

- **Keep this device away from rain and moisture!**
- **Unplug mains lead before opening the housing!**
- **FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY**
- **BEFORE YOU INITIAL START - UP!**
- **Be careful with your operations.**
- **With a high voltage you can suffer a dangerous electric shock when touching the wires!**
- **This device has left our premises in absolutely 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 manual.**

Important:

- **The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.**
- **Please consider that damages caused by manual modifications to the device are not subject to warranty.**
- **Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!**
- **Make sure that the available voltage is not higher than stated on the rear panel.**
- **Always plug in the power plug last. Make sure that the power-switch is set to OFF-position before you connect the device to the mains. The power-plug has to be accessible after installing the device.**
- **Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the powercord from time to time.**

-
- by the plug. Never pull out the plug by tugging the power-cord.
 - This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
 - The electric connection, repairs and servicing must be carried out by a qualified employee.
 - Do not connect this device to a dimmer pack.
 - Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
 - During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
 - Do not touch the device's housing bare hands during its operation (housing becomes hot)!
 - For replacement use lamps and fuses of same type and rating only.

CAUTION :

EYE DAMAGES !

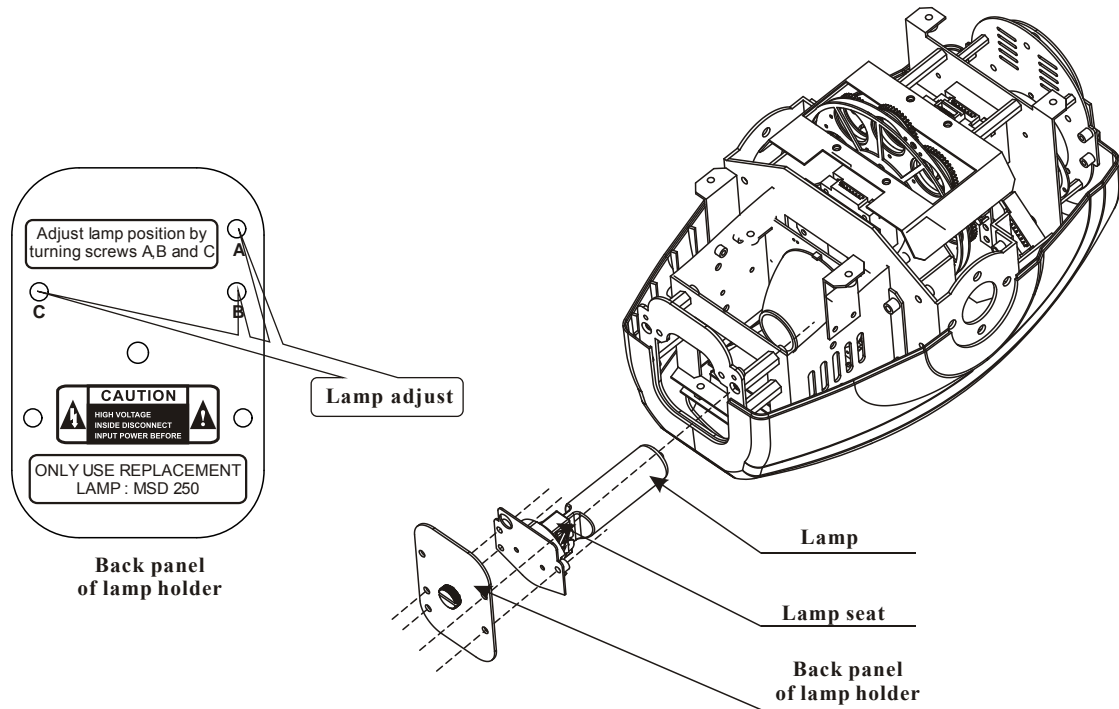
Avoid looking directly into the light source(meant especially for epileptics) !

3. Operating determinations

- This device is a moving-head spot for creating decorative effects and was designed for indoor use only.
- If the device has been exposed to drastic temperature fluctuation (e.g. After transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- Never run the device without lamp!
- Do not shake the device. Avoid brute force when installing or operating the device.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!
- The minimum distance between light-output and the illuminated surface must be more than 2 meters.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture. Always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct holes only.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explode and emit a high ultraviolet radiation, which may cause burns.
- The maximum ambient temperature $t_a = 40^{\circ}\text{C}$ must never be exceeded. Otherwise, the lamp is switched off and the fixture is out of operation for 5 minutes.

5. Install the lamp

- Disassemble the 2pcs M4 plain screws from the cover for change lamp at the back of light, then take the cover for change lamp and lamp out of product together.
- Put the lamp into lamp holder.
- Don't use your hand to touch the mirror cover of lamp during installation. Please use soft cloth to clean if you touch it by chance to provide the light effect.
- Put in the cover for change lamp carefully and screw 2pcs M4 screws firmly.



NOTE: When fitting the lamp position it with the little bubble vertically (either upwards or downwards) as shown in the diagram above. Do not position it horizontally. Close the access hatch carefully and re-tighten the 3 screws. To optimize light output it will be necessary to adjust the lamp alignment to obtain an even distribution of light within the beam. The three screws (marked A, B, and C) may be gently turned to center the lamp within the reflector. The projector should be switched on with the shutter open and the beam focused to do this, it is also advisable to allow the lamp 5 minutes to come up to full brightness before starting to align it. Note: the three screws will only need a small adjustment to centre the lamp, do not try to unscrew them completely.

6. Installing the projector

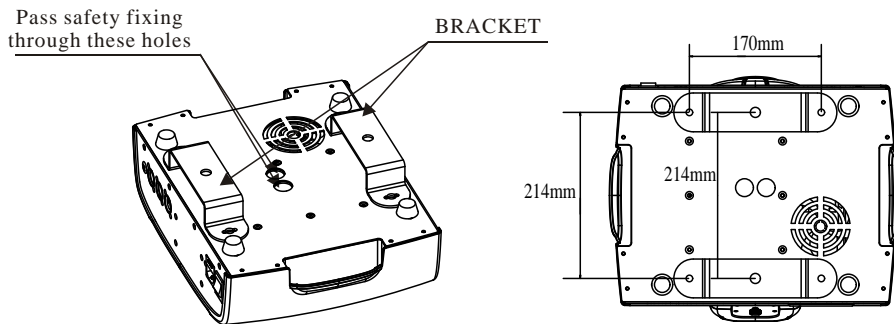
The projector should be mounted via its bracket using two M12 bolt. The bracket itself attaches to the underside of the projector with four(2)M8x25 bolts provided.

Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst operating.

Always ensure that the structure to which you are attaching the projector is secure and is able to support a weight of 19.4 Kg for each equipment.

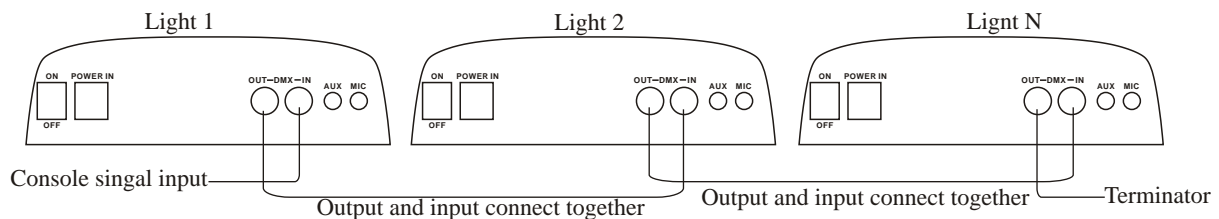
For safety the projector should have a secondary fixing with a safety chain through the holes on the underside of the unit.

WARNING: The projector should NEVER be lifted or carried by the yoke.



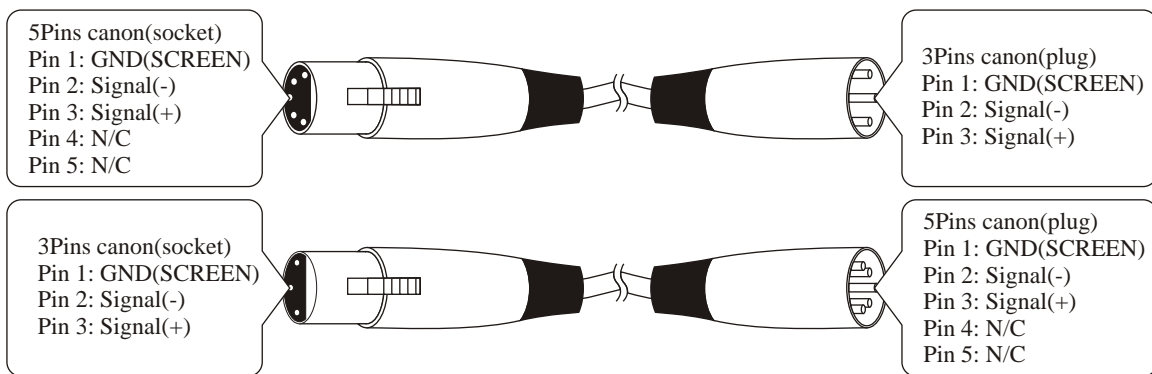
7. Control connections

- Connect the XLR-XLR control line from the DMX output of controller to DMX input of each product and connect the DMX output of the first one to the DMX input of the second one. Connect all products in this way. Then use the attached circle plug to connect the signal output of last machine like picture show:



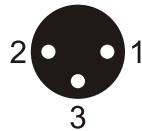
- **Note:** Please remember the signal output of last machine must connect the attached circle plug. The circle plug connect a $120\ \Omega$ resistance between 2 feet and 3 feet canon plug. The signal reflects phenomena can be avoided by using circle plug during DMX 512 signal transfer.
- The product use 3 feet XLR plug. If the controller you use is 5 feet XLR plug, you must use a interchange line from 5 feet to 3 feet as following picture:

The transform of the controller line of 3 pins and 5 pins (plug and socket)



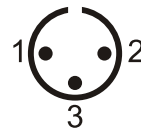
3 pins canon plug of DMX512 connect circuit

OUTPUT



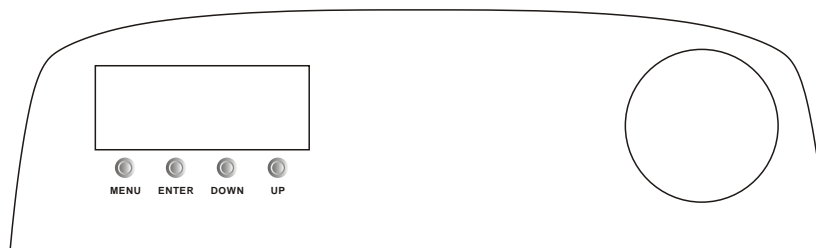
Pin 1: Screen
Pin 2: Signal -
Pin 3: Signal +

INPUT



8. Control Board Operation

8.1 Controlboard operation way:



1. Select working mode by pressing MENU.
2. Press ENTER to confirm the selection.
3. Press UP and DOWN to select working condition.
4. Press ENTER to confirm the selection.

8.2 Function Table:

Mode	Effect/Working mode	Effect description
1-Address	1-Address select:001	Address setting
2-Reset	2-Reset select:No	NO Reset
	2-Reset select:Yes	Reset
3-Operation	3-Operation select:DMAX512	DMX512 mode
	3-Operation select:AUTO1	Automatic mode 1
	3-Operation select:Micro1	Music active mode 1
	3-Operation select:SLAVE	Slave mode
	3-Operation select:Random	Random mode
	3-Operation select:AUTO2	Automatic mode 2
	3-Operation select:Micro2	Music active mode 2
4-Display	4-Display select:60 close	60 Seconds close
	4-Display select:Bright	Bright
5-Plane	5-Plane select:Normal	Pan normal
	5-Plane select:Reverse	Pan reverse
6-Tilt	6-Tilt select:normal	Tilt normal
	6-Tilt select:Reverse	Tilt reverse
7-Color	7-Color select:Step	Color wheel on step
	7-Color select:Line	Color wheel on line
8-Channels	8-Channels select:Basic	Basic Channel mode
	8-Channels select:Advanced	Advanced Channel mode
9-Info		System version

9. DMX512 Channel function setting

Function under MASTER Mode

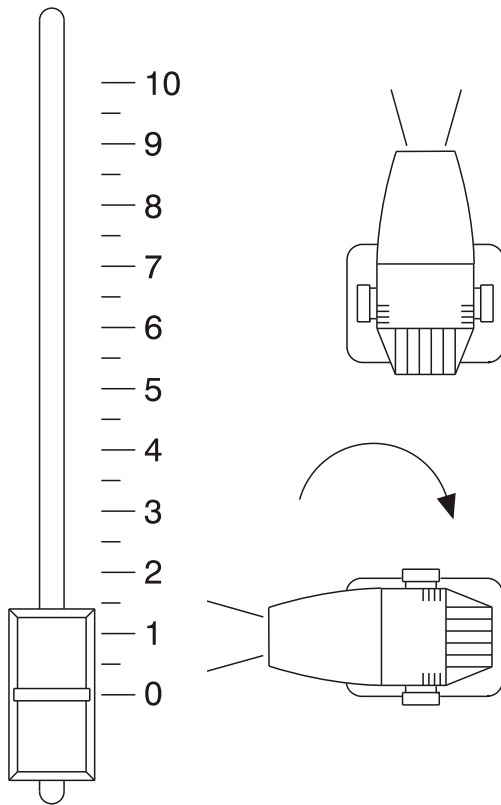
CHANNEL	FUNCTION
1	PAN
2	TILT
3	PAN movement fine adjust
4	TILT movement fine adjust
5	Scan speed adjust
6	Color wheel
7	Gobo wheel & Goboo shake
8	Gobo rotation
9	Strobe
10	Dimmer
11	Automatic & Reset
12	Effect
13	Prism
14	Focus

Function under BASIC Mode

'''

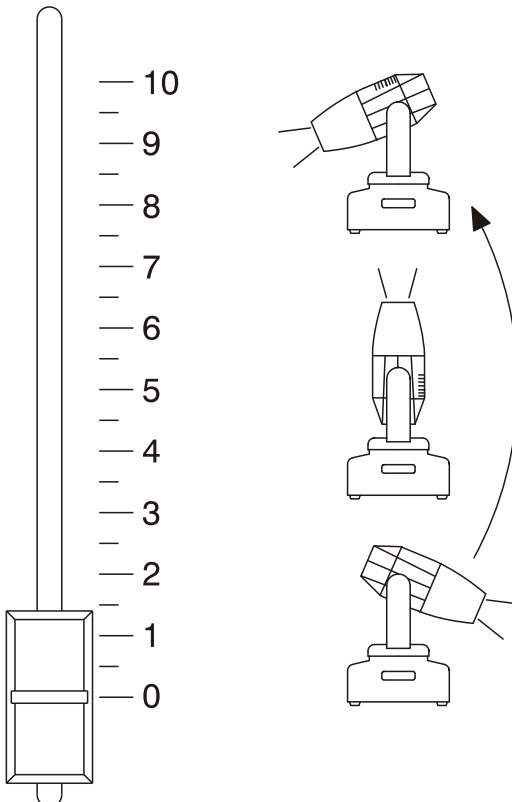
CHANNEL	FUNCTION
1	PAN
2	TILT
3	Color wheel
4	Gobo wheel & Goboo shake
5	Gobo rotation
6	Strobe
7	Dimmer
8	Automatic & Reset
9	Prism
10	Focus

CHANNEL 1: PAN



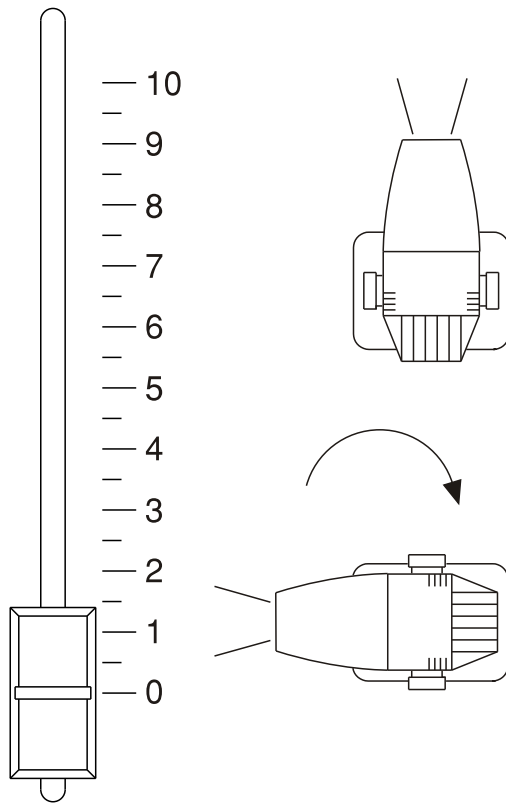
Value	%	Effect
256	100	Clockwise 94 ° rotate
0	0.0	

CHANNEL 2: TILT



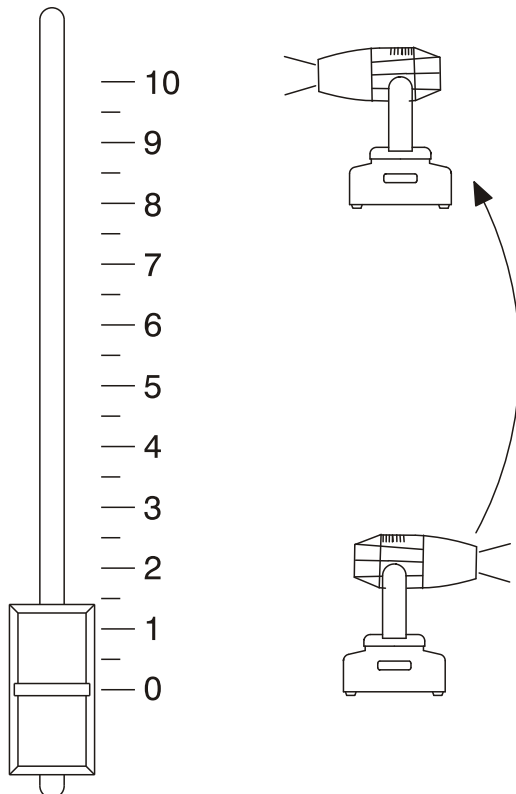
Value	%	Effect
256	100	Anti-clockwise 265° rotate
0	0.0	

CHANNEL 3: PAN movement fine adjust



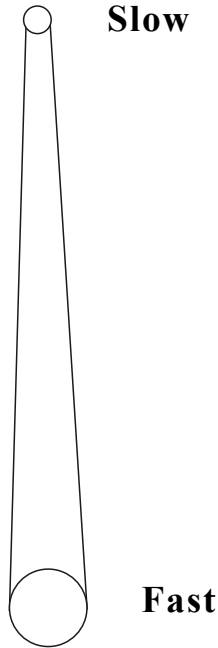
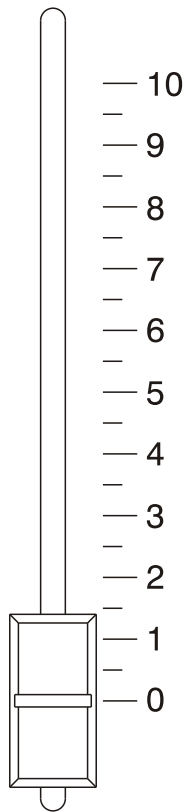
Value	%	Effect
256	100	Fine control of tilt movement
0	0.0	

CHANNEL 4: TILT movement fine adjust



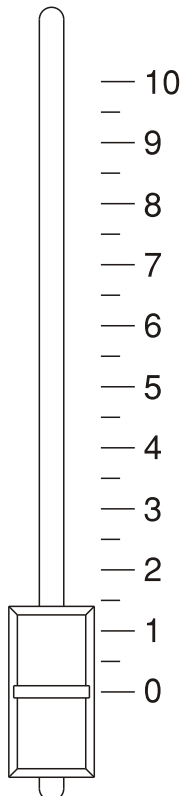
Value	%	Effect
256	100	Fine control of tilt movement
0	0.0	

CHANNEL 5: Scanspeed adjust



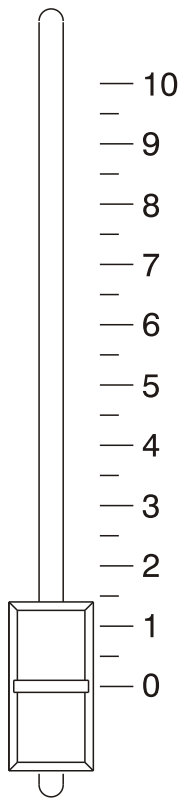
Value	%	Effect
256	100	Slow
0	0.0	Fast

CHANNEL 6: Colorwheel



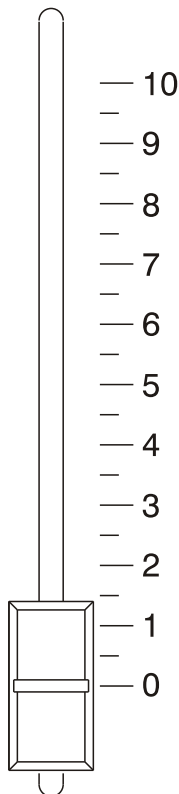
Value	%	Effect
150-255	60-100	Rainbow & Line effect
135-149	54-59	Orange
120-134	48-53	Pale blue
105-119	42-47	Green
90-104	36-41	Purple
75-89	30-35	Pink
60-74	24-29	Dark blue
45-59	18-23	Pale green
30-44	12-17	Yellow
15-29	6-11	Red
0-14	0-5	White

CHANNEL 7: Gobo wheel & Goboshake



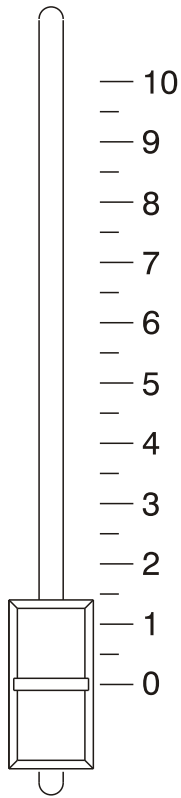
Value	%	Effect
220-255	87-100	Flow effect
200-219	79-86	Shaking gobo 1
180-199	71-78	Shaking gobo 2
160-179	63-70	Shaking gobo 3
140-159	55-62	Shaking gobo 4
120-139	47-54	Shaking gobo 5
100-119	40-46	Shaking gobo 6
80-99	32-39	Shaking gobo 7
70-79	28-31	Gobo 7
60-69	24-27	Gobo 6
50-59	20-23	Gobo 5
40-49	16-19	Gobo 4
30-39	12-15	Gobo 3
20-29	8-11	Gobo 2
10-19	4-7	Gobo 1
0-9	0-3	NO Gobo

CHANNEL 8: Gobo rotation



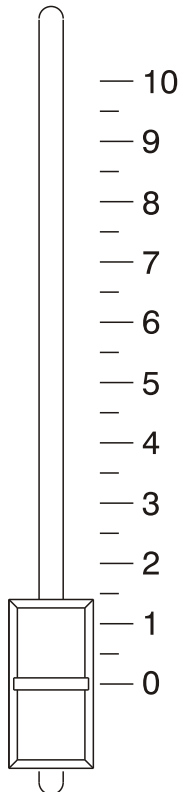
Value	%	Effect
137-255	54-100	Reverse rotate from slow to fast
133-136	52.5-53.5	Reverse rotate slowest
129-132	50.5-52	Stop
7-128	3-50	Rotate from slow to fast
3-6	1-2	Slowest
0-2	0-0.5	Stop

CHANNEL 9: Strobe



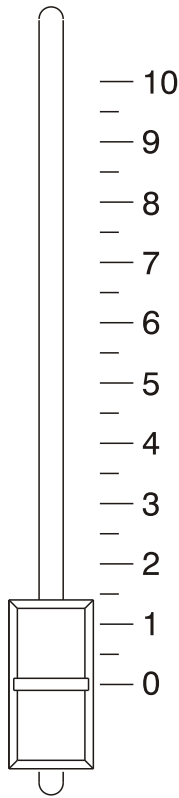
Value	%	Effect
253-255	99-100	Fastest
170-252	67-98	Strobe in normal from slow to fast
160-169	63-66	Open/Hole
150-159	59-62	Fastest
90-149	36-58	Rondom strobe effect from slow to fast
80-89	32-35	Open/Hole
70-79	28-31	Fastest
10-69	4-27	Strobe from slow to fast
0-9	0-3	Open/Hole

CHANNEL 10: Dimmer



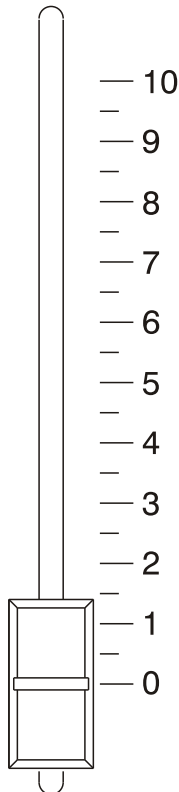
Value	%	Effect
15-255	6-100	Beam out
0-14	0-5	Shutter

CHANNEL 11: Automatic & Reset



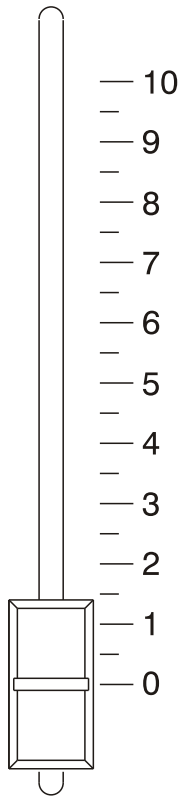
Value	%	Effect
230-255	90-100	Random
200-229	79-89	Music active mode 2
170-199	67-78	Music active mode 1
140-169	55-66	No effect
128-139	50-54	Reset
90-127	35-49	No effect
60-89	24-34	Automatic mode 2
30-59	12-23	Automatic mode 1
0-29	0-11	DMX 512

CHANNEL 12: Effect



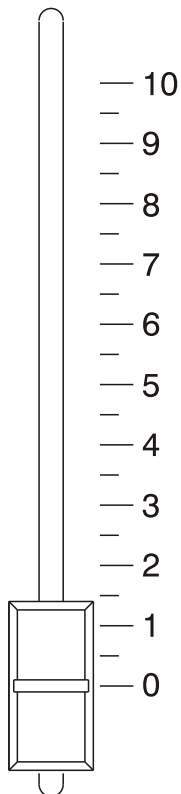
Value	%	Effect
250-255	98-255	Effect 25
240-249	94-97.5	Effect 24
230-239	90-93.5	Effect 23
220-229	86-89.5	Effect 22
210-219	82.5-85.5	Effect 21
200-209	78.5-82	Effect 20
190-199	74.5-78	Effect 19
180-189	70.5-74	Effect 18
170-179	66.5-70	Effect 17
160-169	62.5-66	Effect 16
150-159	59-62	Effect 15
140-149	55-58.5	Effect 14
130-139	51-54.5	Effect 13
120-129	47-50.5	Effect 12
110-119	43-46.5	Effect 11
100-109	39-42.5	Effect 10
90-99	35.5-38.5	Effect 9
80-89	32-35	Effect 8
70-79	28-31.5	Effect 7
60-69	24-27.5	Effect 6
50-59	20-23.5	Effect 5
40-49	16-19.5	Effect 4
30-39	12-15.5	Effect 3
20-29	8-11.5	Effect 2
10-19	4-7.5	Effect 1
0-9	0-3.5	NO Effect

CHANNEL 13: Prism



Value	%	Effect
128-255	51-100	In 3-facet prism
0-127	0-50	No prism

CHANNEL 14: Focus

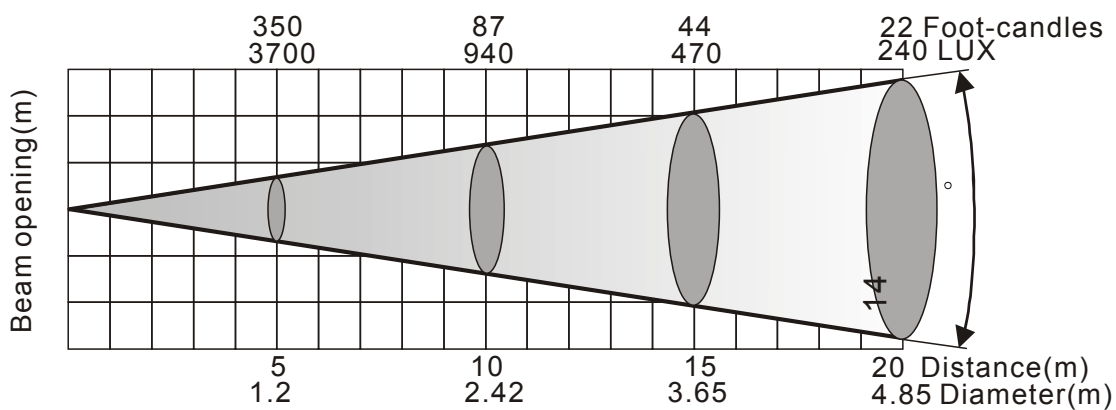


Value	%	Effect
256	100	Close distance
0	0.0	Far distance

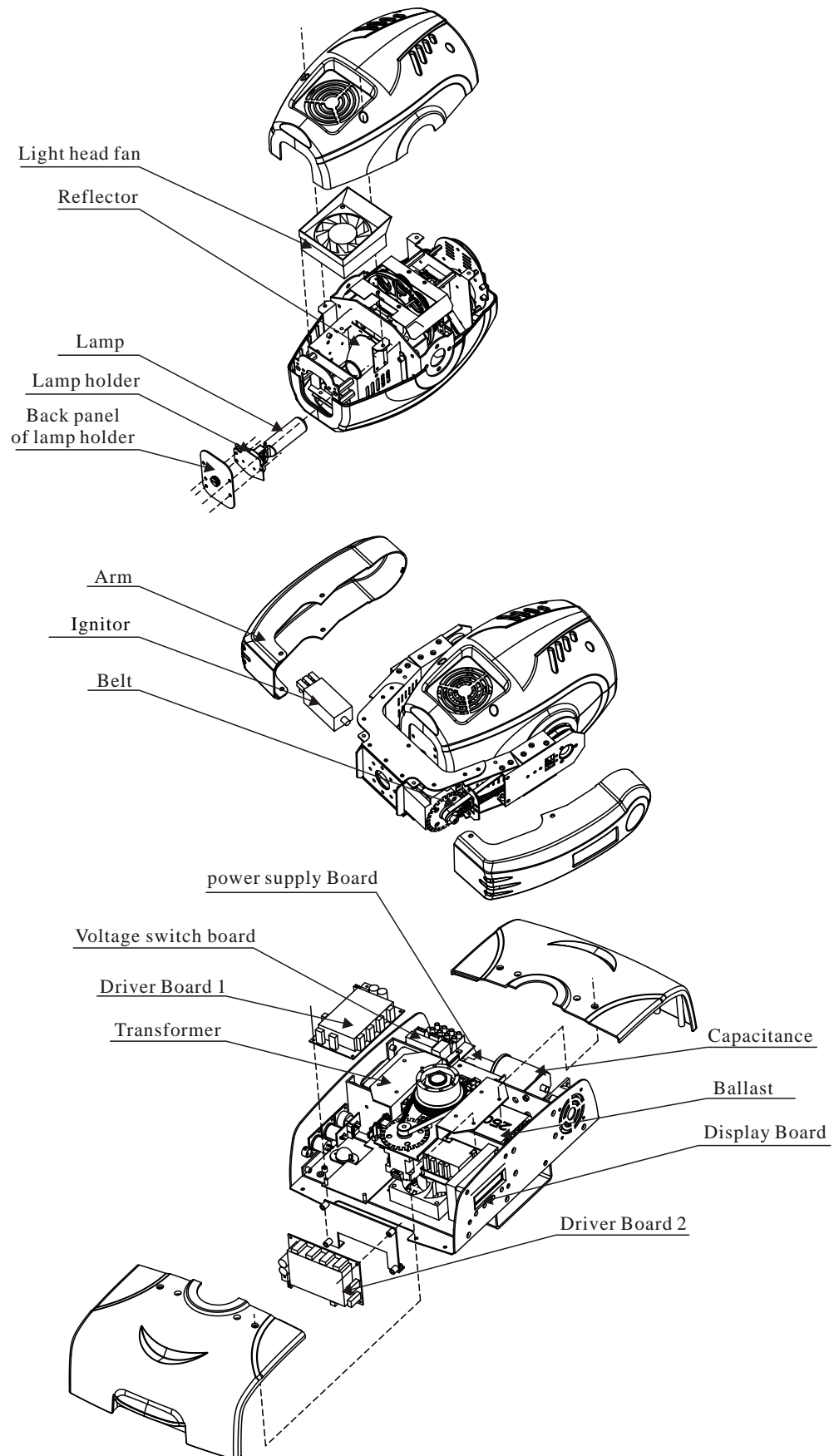
10. Specification

- Voltage: AC100/115V, 50/60Hz
AC208/220/240V, 50/60Hz
- Rated power: 350W
- Bulb: MSD 250
- Channel: 11/14 channels
- Signal: DMX512 international standard
- course mode: Sound/DMX512/Masber/Slave
- Color: 9 colors + white, rainbow effect
- Gobo: 4 metal gobos + white + 3 glass gobos , Flow effect
- Gobo rotation: gobos automatic clockwise or reverse change
- Prism: triangular prism effect
- Dimmer/strobe: dimmer, black-out and strobe in double pieces mode,0~2 times per second, adjustable.
- Rotation angle: vertical 270° horizontal 540°
- Size: 380×290×515mm
- Net weight: 18kg
- Other effect: high temperature will cut off light automatic.

14° radiation angle



12. Structure of the fixture



16. Maintain

- the inner light mirrors and reflector should be frequently cleaning to increase the output effect, the cleaning subject to the operate frequency and the using environment;to clean use a soft cloth dampened with any general detergent liquid suggest clean the outside systems per 20 days a time and inside optics lens per 60 days at least.
- please do not use the organic liquor like alcohol the crust of the equipent to avoid any damage.

17. Announcement

- the function and package of this equipent are well when leaving factory. All users should be abidance the above waring and operating illustration strictly. Any of the damage caused upon misusage are not within our maintain;any failure and problems caused upon ignore the user manual also not in the dealer is duty area.
- we reserve the right to modify the characteristics stated in this instruction manual at any time and without prior notice.