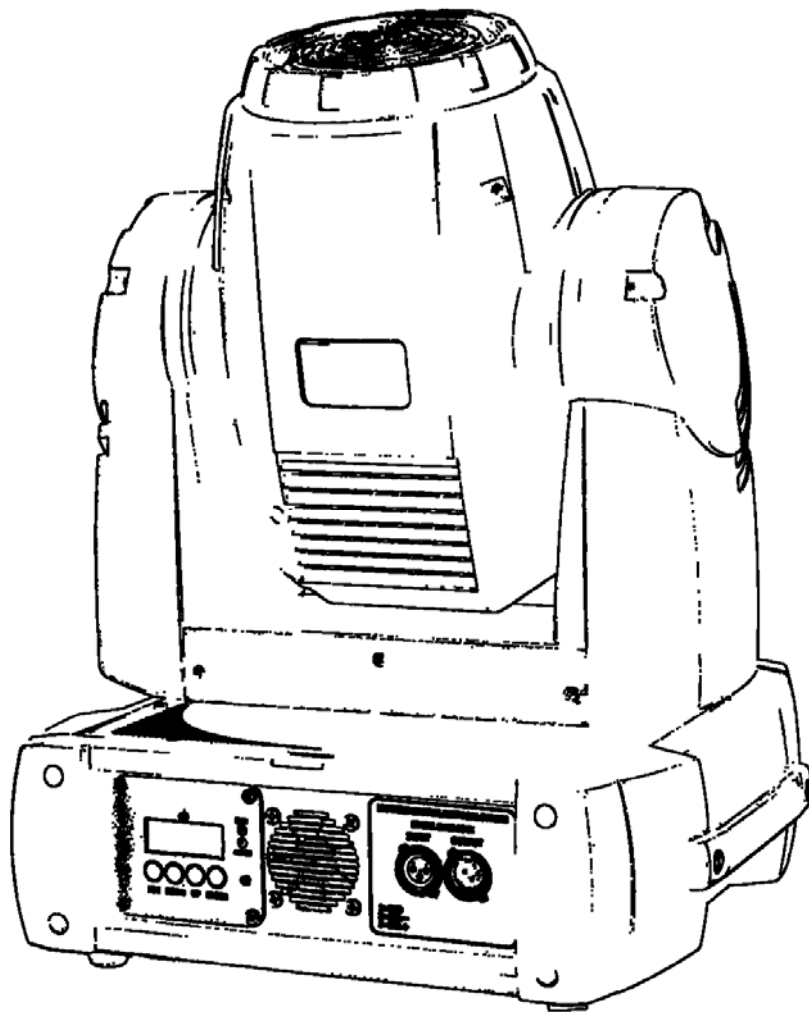


User manual



250w moving head wash



Professional Stage Lighting

CONTENT

STRUCTURE.....	1
SPECIFICATIONS.....	1
DMX CHANNELS.....	1
STROBE OPAN/CLOSE.....	1
DIMMER.....	2
COLOR.....	2
FOCUS.....	2
PAN 450 DEGREE.....	2
TILT 270 DEGREE.....	2
PAN FINE ADJUSTMENT 3.6 DEGREE.....	2
TILT FINE ADJUSTMENT 3.6 DEGREE.....	2
PAN / TILT SPEED ADJUSTMENT.....	2
C.....	2
M.....	3
Y.....	3
C/M/Y speed.....	3
VECTOR MODE.....	3
SIGNAL INPUT.....	3
CONNECT TO DMX512 SIGNAL.....	3
Digital display function & address setting explain.....	4
CLAMP & SAFETY ROPE.....	5
CLEAN & MAINTENANCE.....	5
INSTALL OR REPLACE A LAMP.....	6
CLEAN THE BEAM PATH.....	6
SAFETY INSTRUCTIONS.....	6
SHOOTING CHART.....	7

THIS EQUIPMENT IS A POWERFUL MOVING HEAD WASHER LIGHT FIXTURE. AFTER LONG TIME USING IN LARGE QUANTITY IN MANY DIFFERENT PLACES, IT IS RECOMMENDED BY MANY PROFESSIONAL LIGHT DESIGNERS FOR ITS STABLE AND DURABLE OPERATION. NOW IT HAS BECOME ONE OF THE MOST SUCCESSFUL INTELLIGENT LIGHT FIXTURES YOU CAN FIND IN THE MARKET. IT CAN SUPPLY BRIGHT COLOR WASHING EFFECT. IT COMPLIES WITH CE STANDARDS.

SPECIFICATIONS

COLOR: 4COLORS + OPEN + COLOR TEMPERATURE

(RED, GREEN, ORANGE, PURPLE, OPEN)

SHUTTER / STROBE: 0 – 10 F.P.S., SPEED ADJUSTABLE

PAN: 450 DEGREE, 8 / 16 BIT SELECTABLE, ELECTRONIC RESETTING WITH DISPOSITION CORRECTION

TILT: 270 DEGREE, 8 / 16 BIT SELECTABLE, ELECTRONIC RESETTING WITH DISPOSITION CORRECTION

CONTROL: DMX 512

POWER SUPPLY: 220V 50-60HZ (OTHERS CAN ORDER)

LAMP: MSD 250W DISCHARGE LAMP

LAMP LIFE: APPROX. 500 HOURS (FOR REFERENCE ONLY)

MOTOR: 8 HIGH SPEED AND SUPER ACCURATE STEP MOTORS, CONTROLLED BY HIGH SPEED CHIPS

HOUSING: FIRE-RESISTANT FIRST CLASS ABS MATERIAL, WITH HIGH TEMPERATURE PAINTING, SUITABLE FOR CEILING, WALL AND FLOOR INSTALLATION, EASY INSTALLATION AND REMOVING

BEAM PATH: HIGH DENSITY QUARTZ LENS SET

VENTILATION: HIGH SPEED FAN COOLING

PROTECTION: AUTOMATIC OVER HEAT PROTECTION, ANTI-DISTURBANCE ELECTRIC CIRCUIT

DIMENSION: L400 x W450 x H570 (mm)

WEIGHT: 24kg

DMX CHANNELS

TOTAL 14 CHANNELS

CHANNEL 1: STROBE OPEN/CLOSE

CHANNEL 2: DIMMER

CHANNEL 3: COLOR 4 COLORS + OPEN + COLOR TEMPERATURE FILTER

CHANNEL 4: FOCUS

CHANNEL 5 PAN

CHANNEL 6 TILTS

CHANNEL 7: PAN FINE ADJUSTMENT, 3.6 DEGREE

CHANNEL 8: TILT FINE ADJUSTMENT, 3.6 DEGREE

CHANNEL 9: PAN / TILT SPEED ADJUSTMENT

CHANNEL 10: CYAN

CHANNEL 11: MAGENTA

CHANNEL 12: YELLOW

CHANNEL 13: C/M/Y speed

CHANNEL 14 VECTOR MODES

EXPLANATION:**CHANNEL 1 SHUTTER / STROBE, OPEN / CLOSE**

DMX 512 VALUE 0 - 255	FUNCTION
0 0	CLOSE
0 - 10	OPEN
11 - 160	STROBE / SHUTTER ON/ OFF FAST - SLOW
161 - 165	OPEN
166 - 195	OPEN SHUTTER EFFECT
196 - 225	CLOSE SHUTTER EFFECT
226 - 235	OPEN
236 - 245	RESET
246 - 250	CLOSE
251 - 255	OPEN

CHANNEL 2 DIMMER

DMX 512 VALUE 0 - 255	FUNCTION
0 - 255	0% - 100%

CHANNEL 3 COLOR WHEEL

DMX 512 VALUE 0 - 255	FUNCTION
0 - 153	DEGREE
154 -159	DOWN
160 - 165	UP
166 - 171	PURPLE
172 - 177	ORANGE
178 - 183	GREEN
184 - 189	RED
190 - 198	WHITE
199 - 219	CLOCKWISE ROTATION
220 - 240	COUNTER-CLOCKWISE ROTATION
241 - 255	BY RANDOM

CHANNEL 4 FOCUS

DMX 512 VALUE 0-255	FUNCTION
0-255	LINEAR FOCUSING

CHANNEL 5 PANS 450 DEGREE

DMX 512 VALUE 0 - 255	FUNCTION
0-255	PAN 450 DEGREE

CHANNEL 6 TILTS 270 DEGREE

DMX 512 VALUE 0 - 255	FUNCTION
0-255	TILT 270 DEGREE

CHANNEL 7 PAN FINE ADJUSTMENT 3.6 DEGREE

DMX 512 VALUE 0 - 255	FUNCTION
0-255	PAN FINE ADJUSTMENT 3.6 DEGREE

CHANNEL 8 TILT FINE ADJUSTMENT 3.6 DEGREE

DMX 512 VALUE 0 - 255	FUNCTION
0-255	TILT FINE ADJUSTMENT 3.6 DEGREE

CHANNEL 9 PAN / TILT SPEED ADJUSTMENT

DMX 512 VALUE 0 - 255	FUNCTION
0-255	

CHANNEL 10 CYAN

DMX 512 VALUE 0-255	FUNCTION
0-255	CYANINE

CHANNEL 11 MAGENTA

DMX 512 VALUE 0-255	FUNCTION
0-255	MAGENTA

CHANNEL 12 YELLOW

DMX 512 VALUE 0-255	FUNCTION
0-255	YELLOW

CHANNEL 13 C/M/Y SPEED

DMX 512 VALUE 0-255	FUNCTION
0-127	FAST- SLOW
128-255	Automatism change color fast-slow

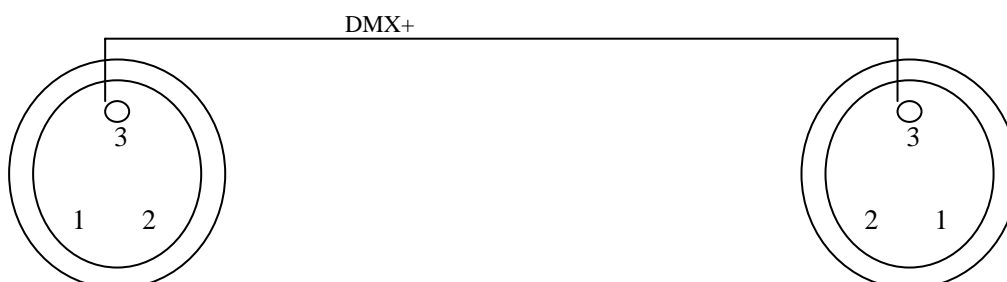
CHANNEL 14 VECTOR MODES

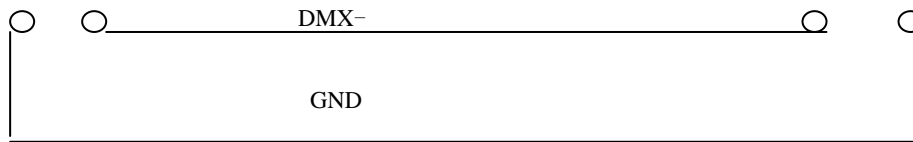
DMX 512 VALUE 0 - 255	FUNCTION
0 - 255	COLOR VECTOR

SIGNAL INPUT

CONNECTION TO DMX 512 SIGNALS

ONLY USE A FIRST CLASS 3-PIN STEREO SHIELDED CABLE AND 3-PIN XLR-PLUGS AND CONNECTORS IN ORDER TO CONNECT THE CONTROLLER WITH THE FIXTURE OR ONE FIXTURE WITH ANOTHER. AT THE LAST DEVICE, THE DMX-CABLE HAS TO BE TERMINATED WITH A TERMINATOR. SOLDER A 120 OHM RESISTOR BETWEEN DATA (-) AND DATA (+) INTO A 3-PIN XLR-PLUG AND PLUG IT IN THE DMX-OUTPUT OF THE LAST DEVICE.





Digital display function & address setting explain:

This control display menu is especially designed for all kinds of computer light, fit out multifunctional control mode, easy control. For some model products have not the motion, corresponding, the menu option setting also null.

1 REST FUNCTION:

Press **Down** or **Up** key, after appear “rSEt” , press Enter key, it will “rSEt” when appear “rSt”

2 DMX512[Address setting] : This function can let you change this equipment address setting.

Press “ESC” key or time after time, till appear “A.001” .then press Enter key, letter “A” crush out.

At this time, appear offside three digits. After Using “Up” or “Down” to choose the address code which you want. And then press “Enter” is ok.

3 automatism & sound control setting:

Press “Down” or ”Up”, appear “Audi” , and then press “Enter”, It will appear “OFF” or “ON” ,

Press “Down” or ”Up” again to choose “OFF or On (OFF: automatism, ON: sound control)

After choose it, pls press “Enter” key and them press” Down” or “Up” to choose “test”, press “Enter” key again, It will appear “nod.1”, and them press “Enter” again. It will appear “run”.

At this time, it would be running base on the setting above. (Setting OFF: automatism, ON: sound control), when running sound control, green LED will be scintillating basis sound control frequency.

4 Principal and subordinate synchronism control:

Main light setting: press Down or Up key, after appearing “rSEt”,and then press Enter key to display “nod.1” press Down or Up to display “nast”, press Enter key again to appear “OFF” or “ON”.

Press Down or up key to choose “OFF” or “ON”. (Choose “OFF” : this light is not the main light. Choose “ON”: this light is the main light”). After choosing it, press Enter to fall back on “nast”.

Press Down or Up key again to display “nod.1”. Press Enter key display “run”. Means running.

(After setting the main light, DMX ‘S LED is light)

When receiving Principal and subordinate synchronism, son light must be in the status of display address code.(if the equipment is not connect DMX controller, the display will scintillate, if the equipment is connect DMX controller, the display won’t scintillate. But DMX signal indicator light will scintillate as the signal. After setting ON, be sure to break off the connecting with DMX controller, and only one light can be set to main light), it is not to change the DMX address setting of son light.

E.g. the address code son light can be set “001” or other number.

5 rPAn.[pan reversion], this function allow to reverse pan action.

Press Up or Down key to display “rPAn, if need reverse, pls choose “on”.
If no, press chooses “OFF”, and press, “ENTER” to Confirm, save and exit.

6 rtilt.[tilt reversion], this function allow to reverse tilt action.

Press Up or Down key to display “rtilt, if need reverse, pls choose “on”.
If no, press chooses “OFF”, and press, “ENTER” to Confirm, save and exit.

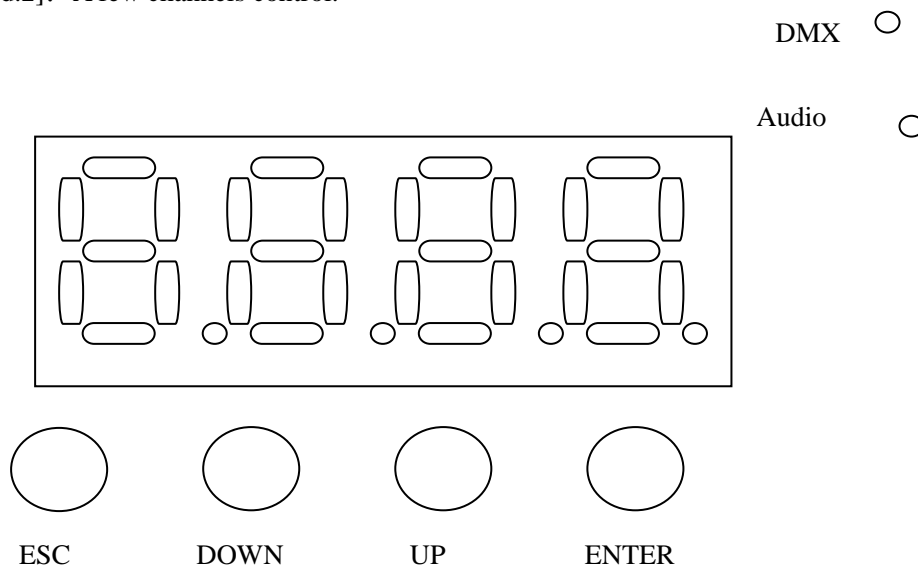
7 choose operation mode:

Press Down or Up key to display “dn.pr”, press Enter again, it will be display “nod.1” or”nod.2”

After choosing, press Enter is ok. **Operation mode:** “nod.1” and ”nod.2”

[nod.1]: Normal channels control.

[nod.2]: A few channels control.



CLAMP & SAFETY ROPE

THIS EQUIPMENT CAN BE PUT ON THE FLOOR OR INSTALLED TO ANY ORIENTATION WITH CLAMPS. IT CAN BE LOCKED TO THE TRUSS QUICKLY AND EASILY.

WARNING! 2 CLAMPS SHOULD BE USED TO INSTALL THE FIXTURE. ALWAYS INSPECT THE CLAMPS TO SEE IF THEY ARE DAMAGED BEFORE USING THEM.

INSTALL THE DEVICE TO THE TRUSS WITH 2 CLAMPS.

WARNING! ALWAYS USE AT LEAST ONE SAFETY ROPE AS SECONDARY ATTACHMENT VIA THE HOLES ON THE BASE OF THE DEVICE. NEVER USE THE CARRYING HANDLES FOR SAFETY ROPES. THE SAFETY ROPE USED MUST CAN HOLD AT LEAST 10 TIMES THE WEIGHT OF THE DEVICE. ALWAYS INSPECT THE SAFETY ROPE TO SEE IF IT IS DAMAGED BEFORE USING IT. INSPECT THE CONSTRUCTION STRUCTURE TO SEE IF IT CAN HOLD AT LEAST 10 TIMES THE WEIGHT OF ALL DEVICES, CABLES, ATTACHMENTS AND THE TRUSS SYSTEM.

1. USE M 12 BOLTS (GRADE 8.8 OR HIGHER) TO LOCK THE CLAMPS TO THE TRUSS. ALL BOLTS SHOULD BE STRONG AND TIGHTLY CONNECTED AND MUST NOT BE CORRODED OR RUSTED.
2. USE A SAFETY ROPE THAT CAN HOLD AT LEAST 10 TIMES THE WEIGHT OF THE DEVICE. THE ENDS OF THE SAFETY ROPE IS DESIGNED SPECIALLY FOR THE CLAMPS.
3. CHECK THE PAN / TILT LOCK TO SEE IF THEY ARE UNLOCKED.
4. CHECK IF THERE IS ANY INFLAMMABLE MATERIALS 1 METER AROUND.

MAINTENANCE

BEFORE INSTALL OR REPLACE A LAMP:

- ◆ THE AVERAGE LAMP LIFE OF A GE/OSRAM/PHILIP HMI 575W DISCHARGE LAMP IS APPROX. 500 HOURS. TO REPLACE A LAMP, CHECK YOUR RECORD TO SEE IF THE LAMP LIFE IS EXCEEDED.
- ◆ SWITCH THE DEVICE OFF AND UNPLUG THE POWER CABLE.
- ◆ THE LAMP BECOMES VERY HOT DURING OPERATION! IF THE LAMP THAT SHOULD BE REPLACED HAS JUST BEEN SWITCHED OFF, WAIT UNTIL AT LEAST 15 MINUTES. RELEASE THE 4 BIG SCREWS ON THE BACK OF THE MOVING HEAD. REMOVE THE OLD LAMP AND REPLACE A NEW LAMP. THE BUBBLE SHARP OF THE LAMP SHOULD BE ORIENTATED UPWARD. INSERT THE LAMP FIRMLY TO THE LAMP SOCKET.

CLEAN THE BEAM PATH

THE EXTERIOR AND INTERIOR LENS SHOULD BE CLEANED AFTER A PERIOD OF TIME TO INCREASE THE BRIGHTNESS, ESPECIALLY UNDER A DUSTY CIRCUMSTANCE.

- ◆ THE OBJECTIVE LENS SHOULD BE CLEANED EVERY TWO WEEKS FOR BEST EFFECT. USE LENS CLEAN PASTE OR ALCOHOL ONLY.
- ◆ THE COLOR FILTERS, THE COLOR WHEEL, THE REFLECTION CUP AND INTERNAL LENSES SHOULD BE CLEANED AT LEAST EVERY 40 – 60 DAYS..
- ◆ THE INTERIOR OF THE DEVICE NEED TO BE CLEANED AT LEAST ANNUALLY BY A VACUUM CLEANER OR AN AIR-JET.
- ◆ THE FANS REQUIRE A MONTHLY CLEANING FOR BETTER VENTILATION.
- ◆ THE GOBOS, THE GOBO WHEEL NEED TO BE CLEANED BY A SOFT BRUSH AT LEAST MONTHLY.

SAFETY INSTRUCTIONS

FOR SAFETY REASONS, PLEASE FOLLOW THE INSTRUCTIONS BELOW:

- ◆ DO NOT OPEN THE DEVICE. DO NOT MAKE ANY MODIFICATIONS.
- ◆ DO NOT LET LIQUID, WATER OR METAL TO COME INTO THE INTERIOR OF THE DEVICE.

DO NOT USE THE DEVICE WHEN:

- ◆ THE HUMIDITY IS TOO HIGH.
- ◆ WHEN SHOCK OR COLLISION OCCURS.
- ◆ WHEN THE TEMPERATURE IS HIGHER THAN 40°C OR UNDER 0°C.

WARNING:

- ◆ WHEN YOU MEET OPERATION PROBLEMS, STOP IT IMMEDIATELY AND CONSULT THE DEALER.
- ◆ THERE ARE NO SERVICEABLE PARTS INSIDE THE DEVICE EXCEPT FOR THE LAMP AND THE FUSE.
- ◆ MAINTENANCE AND SERVICE OPERATION CAN BE ONLY CARRIED BY A AUTHORIZED DEALER.
- ◆ TO OPEN MANY DEVICES, OPEN THEM ONE BY ONE AFTER 5 MINUTES. DO NOT OPEN THEM ONE TIME, OTHERWISE THE VOLTAGE MIGHT BE DECREASED AND UNABLE TO IGNITE THE DISCHARGE LAMPS PROPERLY.
- ◆ DO NOT RE-START A DEVICE IMMEDIATELY AFTER YOU SWITCHED IT OFF. WAIT AT LEAST 15 MINUTES. OTHERWISE YOU MIGHT DAMAGE THE DISCHARGE LAMP OR THE BALLAST.
- ◆ ONLY HANDLE THE POWER CORD BY THE PLUG. NEVER PULL OUT THE PLUG BY TUGGING THE

POWER CORD.

WARNING:

- ◆ THERE SHOULD NOT BE ANY DEFORMATION OR DAMAGE ON THE HOUSING, LENS, INSTALLATION PART, MOVING PART, AND POWER CABLES. IF SUCH DEFORMATION OR DAMAGE OCCURS, STOP THE DEVICE IMMEDIATELY AND CONSULT YOUR DEALER FOR REPLACEMENT.
- ◆ REPLACE THE LAMP BY A QUALIFIED PERSON WHEN IT IS DAMAGED OR THE MAXIMUM BULB LIFE, 750 HOURS, HAS BEEN EXCEEDED.
- ◆ WHEN THE DEVICE IS NOT IN USE, OR YOU NEED TO REPLACE THE LAMP OR FUSE OR ANY PART, SWITCH IT OFF.
- ◆ THE DEVICE SHOULD BE ALWAYS EARTHED.
- ◆ THE POWER SUPPLY YOU USE SHOULD BE COMPLIED TO THE LOCAL CONSTRUCTION AND ELECTRONIC REGULATIONS. OVERLOAD PROTECTION AND PROPER EARTHING IS A MUST.
- ◆ AVOID LOOKING DIRECT TO THE LIGHT SOURCE (MEANT ESPECIALLY FOR EPILEPTICS)! AVOID EXPOSURE NAKED SKIN DIRECTLY UNDER THE LIGHTING BEAM.
- ◆ WHEN REPLACE THE FUSE, USE SAME TYPE AND RATING FUSE WITH PROPER STANDARD MARK. AVOID SHORT-CIRCUIT OF THE DEVICE FROM THE TEMPERATURE-CONTROL SWITCH OR THE FUSE!
- ◆ KEEP THE DEVICE AWAY FROM THE INFLAMMABLE MATERIALS, SUCH AS CLOTH, PAPER, WOOD, ETC.
- ◆ KEEP THE FAN OF THE DEVICE AWAY FROM THE WALL OR OTHER OBJECTS. THE DISTANCE SHOULD BE AT LEAST 0.1 METER.
- ◆ WHEN THE SURFACE OF THE DEVICE BECOMES VERY HOT, STOP THE DEVICE AND RE-START IT AFTER AT LEAST 15 MINUTES.
- ◆ TO REPLACE OR INSTALL THE DEVICE, ALWAYS USE ORIGINAL PART FROM THE MANUFACTURER.
- ◆ WHEN RIGGING, DEREGGING THE DEVICE, THE WORKING AREA SHOULD BE BLOCKED SO THAT NO OTHER PEOPLE CAN ENTER.
- ◆ NEVER PUT YOUR HAND ON THE DEVICE DURING ITS OPERATION.
- ◆ THE OBJECTIVE LENS, THE EXTERIOR AND INTERIOR OF THE DEVICE WILL BECOME DIRTY AFTER A PERIOD OF TIME, ESPECIALLY UNDER DUSTY CIRCUMSTANCE. YOU SHOULD CLEAN THE DEVICE ACCORDING TO THIS USER MANUAL.

SHOOTING CHART

PROBLEM	REASON
POWER SUPPLY	
◆ NO LIGHT OUTPUT. NO AUTO RESETTING. POWER INDICATION LED DO NOT LIGHT.	◆ CORD NOT PLUGGED IN. FUSE FAILURE.
◆ LAMP ON. AUTO RESET. BUT YOU CAN NOT CONTROL IT. OR YOU CAN NOT CONTROL A CHANNEL.	◆ SIGNAL CABLE OR DMX ADDRESS NOT PROPER. CHECK SIGNAL CABLE OR DMX START ADDRESS.
◆ LAMP NOT PROPER. YOU CAN NOT SWITCH IT ON EVERYTIME.	◆ VOLTAGE IS TOO LOW. OR THE LAMP LIFE WILL BE FINISHED.
◆ THE LIGHT BEAM SPOT NOT BRIGHT.	◆ CLEAN THE LENS. OR THE LAMP LIFE WILL BE FINISHED.
◆ LAMP ON, AND OFF AFTER A PERIOD OF TIME	◆ OVERHEAT PROTECTION WORKING. CHECK FAN AND VENTILATION.
◆ POWER SUPPLY NOT PROPER. POWER	