

# INSTRUCTION MENU

## FOR R-SERIES LIGHT ENGINE

Thank you for your purchasing the R-Series Master/Slave Light Engine. Please read carefully the instruction menu before using the R-Series Light Engine. If you have any questions concerning the operation or maintains, please contact your wholesaler.

### Special Notification:

Before using the R-Series Light Engine, please open the top case and take out of the color wheel protector. 150W Light Engine is suggested to use on fiber optic string of 0.75mm or above. 250W Light Engine is suggested to use on fiber optic string of 6mm or above.

### A. Safety Instruction:

1. Make sure the Light Engine and Power Source have the same voltage.
2. Make sure the ground connection is well connected.
3. Keep out of rain or moist area to avoid shock hazards.
4. To change lamp, shut down and keep the Light Engine cooling down for 15 minutes at least.
5. Keep at least 10cm spacing for fan ventilation at each side while installation.
6. Avoid to use at high temperature ( $\leq 40^{\circ}\text{C}$ )
7. Keep ventilation.

### B. Technical Data:

Voltage:  110-120V/60Hz     220-240V/50Hz

Fuse:     3.15A/250V     5A/250V

Power Consumption:     100W     180W     280W

DMX Channel: 2CH or Master/Slave

Color: White, Purple, Yellow, Blue, Green, Orange, Sky-blue and Grass-green

Lamp:     HQI-T 150W     HCI-T 150W     CDM-T 70W

CDM-T 150W     MSD 250W     HSD 250W

Color Temp:  3000K     4200K     8500K

### C. Installation:

Use ONLY specified HID lamp on all R-series Light Engine. All lamps are discharged before delivery, the color wheel is well protected with protection foam. Please take out of the protection foam and install the lamp before using the Light Engine.

#### 1. Take out of the protection foam:

Open the Top Cover, take out of the protection foam gently, avoid to deform the Color wheel. then close the Top Cover, screw tie the cover.

#### 2. Change Lamp:

- (1) Turn off the power, cooling down for 15 minutes at least.
- (2) Unscrew the Lamp Fixing Board Screw at the back case of the Light Engine. Pull gently the Lamp Fixing Board backward, until the Lamp Socket is fully out of the Light Engine.
- (3) Take out of the broken lamp, and change a new one. Please take care not to touch the glass part of the lamp.
- (4) Push the Board into the Light Engine, then screw tight the Lamp Fixing Board Screw.

### 3. Lamp focus adjusting :

Please re-adjust the lamp focus if the fiber optic is bigger than 16mm in diameter. Adjust the screws (3 screws) at the back case on the LAMP-FIXING-BOARD.

**Attention: Mis-adjust the lamp will weaken the brightness of the fiber**

### 4. Installation of fiber optic:

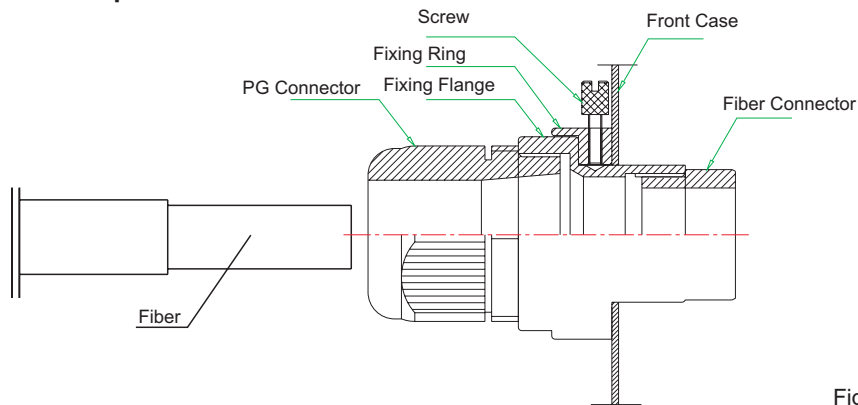


Fig. 1

(1) Solid Core fiber optic(See Fig. 1):

- \* Cut the fiber to the specified length. The cutting face should be vertical to the fiber and keep clean on the cutting side.
- \* Peel off 50-60mm of the protection cover of the fiber optic (if no protection cover, no need to peel off any fiber optic), be careful not to hurt the fiber optic itself.
- \* Unscrew PG Connector, insert the fiber optic into the Fixing Flange and Fiber Connector, until it closely adherence to the Fiber Connector then screw down the Screw. Push gently the Fixing Flange and the Fiber into the Fixing- Ring, screw tight PG Connector.

(2) Multi-string fiber optic(See Fig. 1):

- \* Cut a 50-60mm protection cover before connecting the fiber with Light Engine. Please take care not to hurt the fiber optic.
- \* Collect all fibers in one bundle, Enlace all the fiber at the 10cm from fiber end with 130°C heat-resistant tape.
- \* Unscrew PG Connector, insert the fiber optic into the Fixing Flange and Fiber Connector, until it closely adherence to the Fiber Connector, cut the surface neatly .
- \* Push gently the Fixing Flange and the Fiber into the Fixing Ring, screw tight PG Connector.
- \* NOTE:Please make sure that the fibers diameter is same as fiber connetor,it will fuse fiber if the diameter of fiber connector is too big.Assure the surface is vertical to the fiber, clean, smooth, to avoid decrease of the brightness or melt of the fiber string.

### D. Maintenance:

Please clean the Heat-Insulation Plate, Color Wheel and other Optical parts periodically.

### E. Light Engine Setting:

There are three control system for R-Series MASTER/SLAVE Light Engine:

- \* DMX 512 signal control Mode: Signal comes out from DMX 512 Control Panel.
- \* Master/Slave Mode: One Light Engine set as Master , while all the others set as Slave. Signal comes out from the Master machine to control all other slave machines running synchronously.
- \* Master/Slave Remote Control Mode(Optional):Remote Control the Master machine,Signal comes out from the Master machine to control all other slave machines running synchronously.

**1.DMX 512 signal control mode:**

(1) Address Setting:

Press button UP and DOWN at the same time (maybe many times),until the digital display shows 001. Then press button UP or DOWN to select address.

(2) DMX Channels: CH1:Color CH2:Speed

(3) The connection of DMX Signal Control Mode:

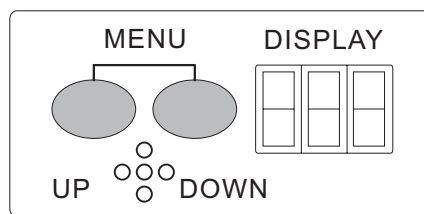


Fig.2

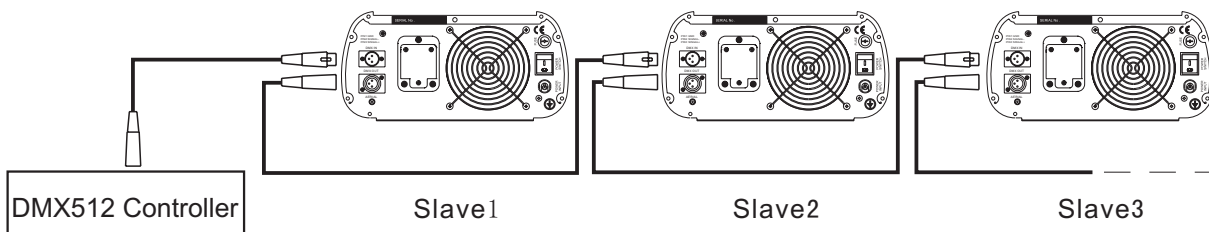


Fig.3

(4) DMX Signal wire and connector link(see Fig.4):

Signal wire should be 2 0.5mm<sup>2</sup> audio wire.

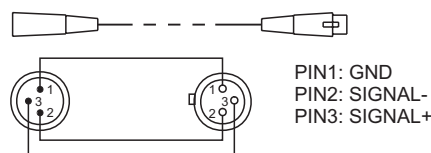


Fig.4

**2. Master/Slave mode:**

(1) The setting of Master/Slave mode:

Master Machine: Press button UP and DOWN at the same time(maybe many times) until the digital display shows PXX. Then press UP or DOWN to select different programs. (program chart as following)

Slave Machine: Set all the Slave Machines DIP address as 001.

(2) The connection of Master/Slave Control Mode:

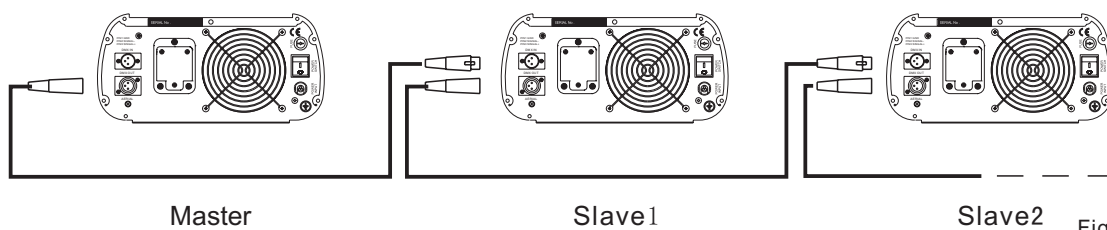


Fig.5

**3. Master/Slave Remote Control mode(Optional):**

(1) The setting of Master/Slave Remote Control mode:

Master Machine: Press button UP and DOWN at the same time(maybe many times) until the digital display shows RXX. Then press UP or DOWN to select different programs.

Slave Machine: Set all the Slave Machines DIP address as 001.

(2) The connection of Master/Slave Control Mode(see Fig.5):

(3) Wireless remote control using:

The Digital Display shows RXX. Press the clear key,clear the saved procedures, then choose the Program you need,press the corresponding number key and enter key.When the procedure number is larger than the keys, please press any keys whose sum is the number.

i.e. Set effect (the procedure of 09)

- ① make sure Digital Display shows RXX;
- ② press "Clear" button;
- ③ press the number "4" and "5" ("3" and "6" is also OK);
- ④ press "enter".



Fig.6

**F.Normal Problem Solving:**

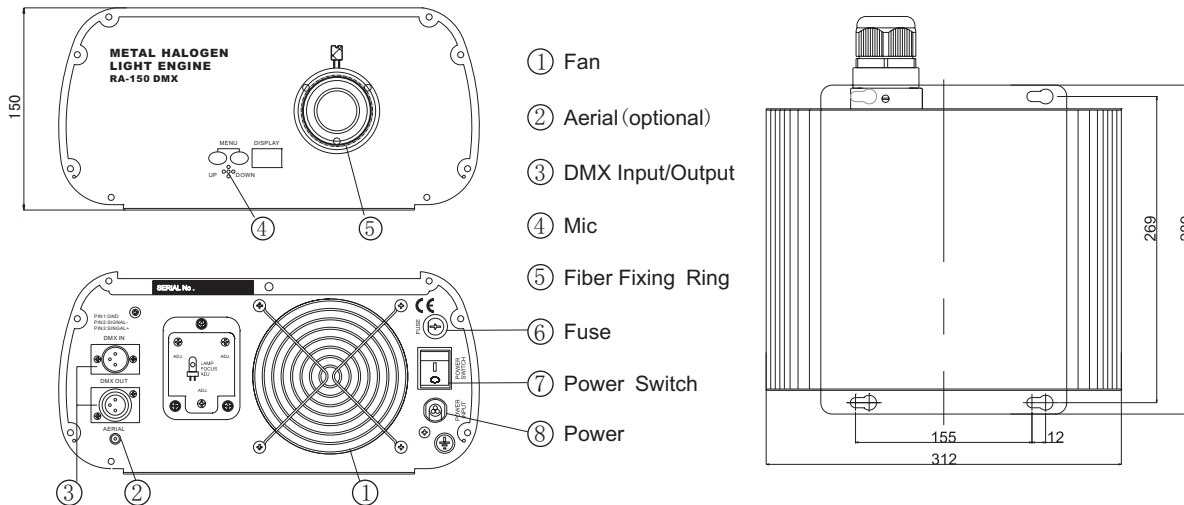
- 1.Power ON,but lamp and fan are not working,please check the fuse.
- 2.Lamp not working but fan rolling:A.check lamp B.check triger C.check ballast.Please change a fine fixture when checking.
- 3.Lamp light up and off alternately,please check the Mostat and replace a new one.
- 4.Master/Slave problem:
  - A. If one of machine have not in synchronous: please check the DMX signal wire,and Power ON,the color wheel will rolling,if not at bule position when stop,it is the problem of restoration Switch.
  - B. The slave machine are shaking,problem may be there has several sets Master machine or DMX signal wire problem.
  - C. DMX signal wire connecting.
  - D. Light Engine quantity exceed 25pcs or the length of DMX signal wire exceed 300meters,it will reduce the signal,please add a DMX512 signal Amplifier.

**Please find the setting programs as following chart:**

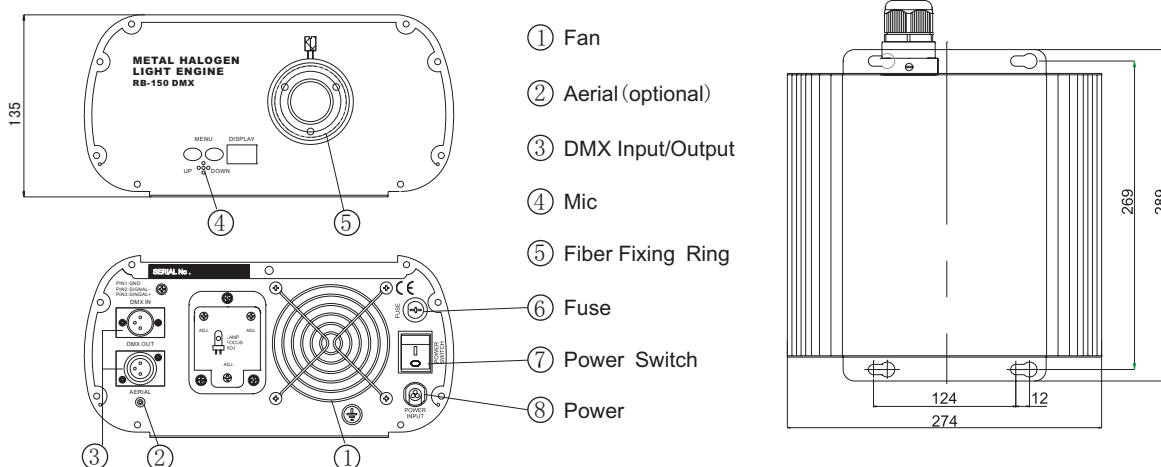
PRG NO.	EFFECT	PRG NO.	EFFECT
P01	Blue	P24	B,G,PP,Y,flash change(2")
P02	Green	P25	B,G,PP,Y,flash change(5")
P03	Purple	P26	B,G,PP,Y,flash change(10")
P04	Yellow	P27	B,G,PP,Y,flash change(30")
P05	Sky-Blue	P28	B,G,PP,Y,flash change(60")
P06	Grass-Green	P29	8 Colors slow change(0.2RPM)
P07	Orange	P30	8 Colors slow change(0.5RPM)
P08	White	P31	8 Colors slow change(1RPM)
P09	B,G,PP,Y,SKY-B,GG,O,W,flash change(2")	P32	8 Colors slow change(2RPM)
P10	B,G,PP,Y,SKY-B,GG,O,W,flash change(5")	P33	8 Colors slow change(3RPM)
P11	B,G,PP,Y,SKY-B,GG,O,W,flash change(10")	P34	8 Colors slow change(5RPM)
P12	B,G,PP,Y,SKY-B,GG,O,W,flash change(30")	P35	8 Colors slow change(8RPM)
P13	B,G,PP,Y,SKY-B,GG,O,W,flash change(60")	P36	8 Colors slow change(12RPM)
P14	B,G,PP,Y,SKY-B,GG,O,flash change(2")	P37	8 Colors chasing slow change(1RPM)
P15	B,G,PP,Y,SKY-B,GG,O,flash change(5")	P38	8 Colors chasing slow change(2RPM)
P16	B,G,PP,Y,SKY-B,GG,O,flash change(10")	P39	8 Colors chasing slow change(3RPM)
P17	B,G,PP,Y,SKY-B,GG,O,flash change(30")	P40	8 Colors chasing slow change(5RPM)
P18	B,G,PP,Y,SKY-B,GG,O,flash change(60")	PS1	B,G,PP,Y,SKY-B,GG,O,W(Audio Control)
P19	B,G,PP,flash change(2")	PS2	B,G,PP,Y,SKY-B,GG,O(Audio Control)
P20	B,G,PP,flash change(5")	PS3	B,G,PP(Audio Control)
P21	B,G,PP,flash change(10")	PS4	B,G,PP,Y(Audio Control)
P22	B,G,PP,flash change(30")		
P23	B,G,PP,flash change(60")		

NOTE: Total 44 programs,PS1 to PS4 are Audio control programs.RXX represent the program under wireless remote control mode,the function is same as PXX.P37 to P40 are color chasing programs,the nearby illuminator color will be chasing.When running these 4 programs,please set the first illuminator as Master and slaves DIP address as 003,005,007,009,011,013,015 and re-set 001,003,005,007....circulatory.

## Installation Dimension of RA Series



## Installation Dimension of RB Series



## Installation Dimension of RD Series

