

# INSTRUCTION FOR R-150 LIGHT ENGINE

Thank you for your purchasing the R-150 Light Engine. Please read carefully the instruction menu before using the R-150 Light Engine . If you have any questions concerning the operation or maintains, please contact your wholesaler.

## Special Notification

Before using the R-150 Light Engine , please open the top case and take out of the color wheel protector.

## A. Safety Instruction

1. Make sure the R-150 Light Engine and Power Engine 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 R-150 Light Engine cooling down for at least 15minutes.
5. Keep at least 10cm spacing for fan ventilation at each side while installation.
6. Clean the dust from Dustproof Plate at the end of fiber optic periodically.
7. Avoid to use at high temperature ( $\leq 40^{\circ}\text{C}$ )
8. Keep ventilation.

## B. Technical Data

Voltage: 110~120V/60Hz

Fuse: 5A/250V

Power consumption: 180W

Color: white, purple, yellow, blue, green, orange, sky-blue and grass-green

Lamp: HQI-T 150W Osram HID

Color Temp.: 4200K

Size: L295 x W340 x H150mm

Net Weight: 12KG with lamp

## C. Characteristics

1. Suitable for wide range of Fiber Optic (solid core or multi-string Fiber Optic)
2. 6000hours of lamp life
3. Overheated protection
4. UV and X ray protection

## D. Installation

1. Lamp Installation

Use ONLY HQI-T150W Osram HID lamp. The lamp is installed and adjusted to the best position before delivery.

2. How to change lamp

- a. Make sure the power is OFF.
- b. Unscrew the screws for LAMP-FIXING-BOARD at the back case (see fig. 2 No. 6), draw back the LAMP-FIXING-BOARD until the lamp is fully seen.
- c. Take out of the lamp and change a new one. Avoid touching the glass part of the lamp.
- d. Push the LAMP-FIXING-BOARD fully contact with the light source back case. Screw the screws for LAMP-FIXING-BOARD.

3. How to adjust the lamp focus

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.

NOTE: Mis-adjust the lamp will weaken the brightness of the fiber.

4. Placement of the R-150 Light S Engine
  - a. Keep the Light Engine at horizontal position. Make sure that the two electrodes of the lamp are always at horizontal position.
  - b. If the Light Engine is installed on the wall, make sure that the two electrodes of the lamp always are at horizontal position.
  - c. If the Light Engine is installed on the ceiling, make sure that the two electrodes of the lamp are always at horizontal position.
5. Installation of fiber optic (see fig. 1)

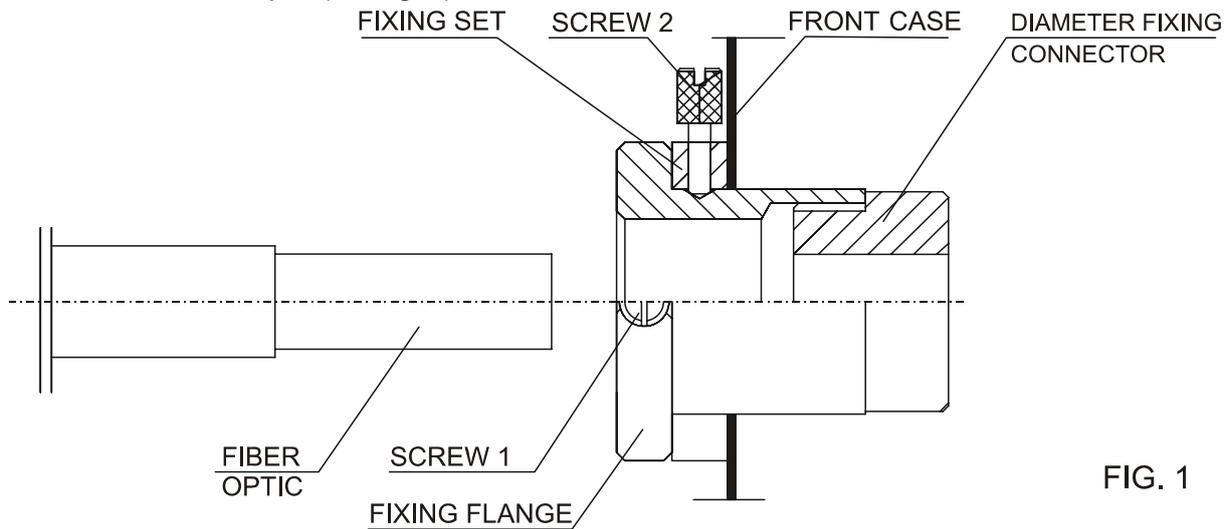


FIG. 1

- a. Solid Core fiber optic

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 Screw 1, insert the fiber optic into the Fixing Flange and Diameter Fixing Connector, until it closely adherence to the Dustproof Plate, then screw down Screw 1.

Insert the whole Fiber Connector to the Fixing Set, and then screw down Screw 2.

Note: Please enlance between fiber and Screw 1 to avoid fiber optic hurt by the screw.
- b. Multi-string fiber optic

Cut the 150mm protection cover before connecting the fiber with Light Source. Please take care not to hurt the fiber optic.

Enlance all the fiber with 130°C heat-resistant tape, cut the surface neatly and polish it. Do not use any chemical solvent for cleaning the fiber.

Assure the surface is vertical to the fiber, clean, smooth, to avoid decrease of the brightness or melt of the fiber string.

Unscrew Screw 1, insert the fiber optic into the Fixing Flange and Diameter Fixing Connector, until it closely adherence to the Dustproof Plate, then screw down Screw 1.

Insert the whole Fiber Connector to the Fixing Set, and then screw down Screw 2.

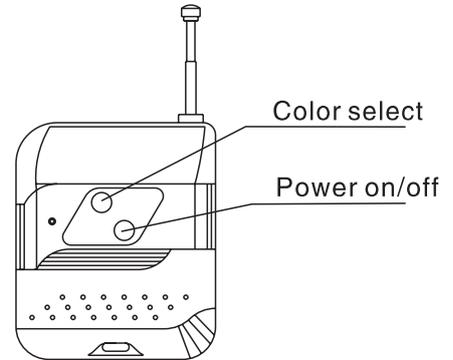
## E. Maintenance

1. Please clean the Heat-Insulation Plate, Color Wheel and other Optical parts periodically.
2. Please clean fiber optic end out of dust periodically.

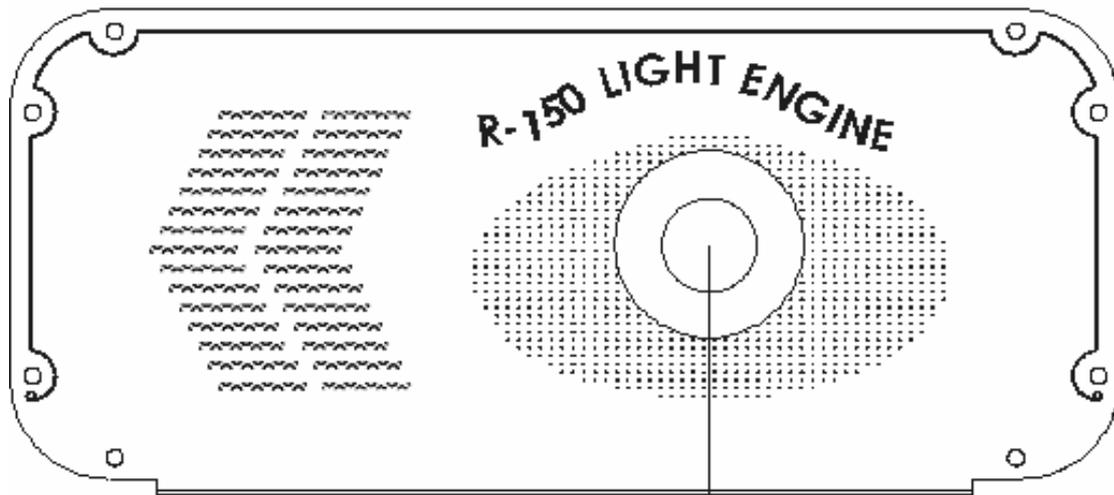
## **E.The Function of Wireless Remote Control \ Optional:(see fig 6)**

### **SPECIAL NOTIFICATION**

1. Color select button:  
Choose colors or color be selected through this button.
2. Power button:  
Power ON or OFF.



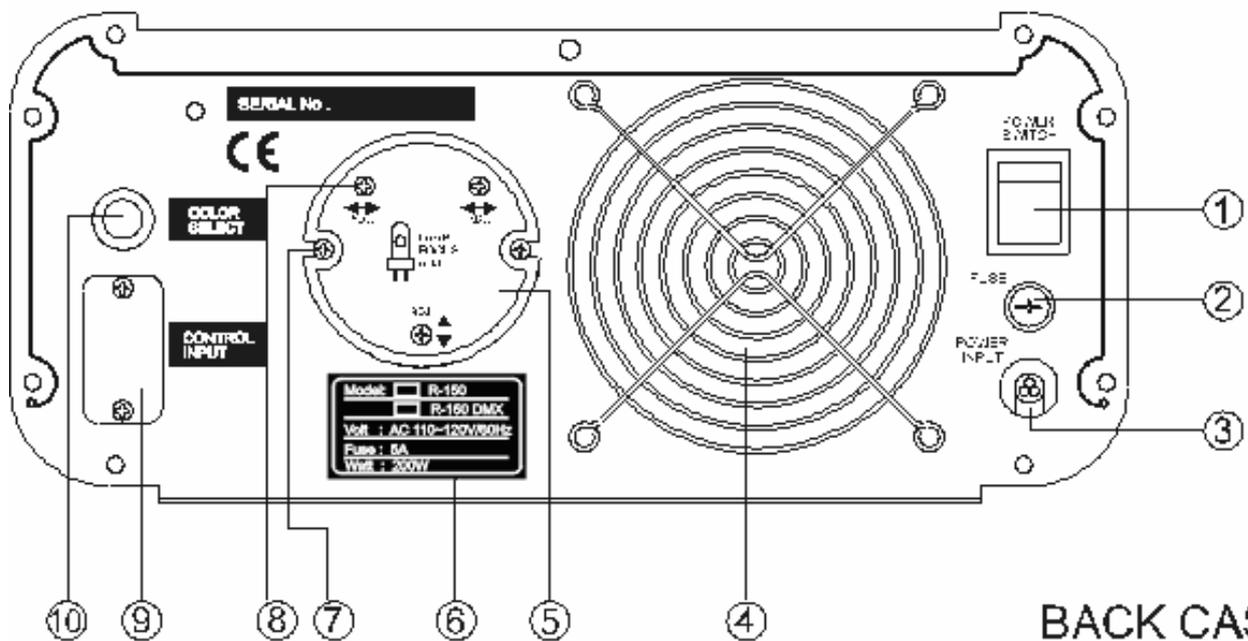
## R-150 LIGHT ENGINE FRONT AND BACK CASE



① FIBER FIXING SET

①

FRONT CASE



⑩

⑨

⑧

⑦

⑥

⑤

④

BACK CASE

①

②

③

① POWER SWITCH

② FUSE

③ POWER CABLE

④ FAN

⑤ LAMP-FIXING BOARD

⑥ LABEL

⑦ LAMP-FIXING BOARD SCREW

⑧ LAMP FOCUS SCREW

⑨ CONTROL PANEL

⑩ COLOR SELECT SWITCH