Instruction Manual for LED Underwater Light MiniFlat

81HTW101B 81HTS101B 81HTX101B





IMPORTANT: This manual includes essential information on the safety measures to be implemented for installation and start-up. Therefore, both the installer and the user must read these instructions before beginning the installation and start-up process.

Technical Specification

Standard input voltage: 12V AC/DC (Range: 12~18V AC or DC)

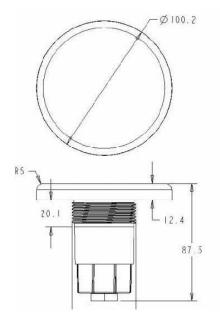
Standard input watt:

RGB	White
6W	7W

Use life: 60,000 hours

16 programs with Synchronization capability

Dimensions:



Packing Contents

The following items are included in the box: Lamp Assembly x 1 Rubber Ring x 1





Instruction & Use

This is a high-technology, electronically controlled light featuring LEDs in three colors: red, green, and blue. These three base colors, when combined, can produce a wide range of other colors to create the perfect atmosphere in the pool. Any of the 16 pre-programmed effects can be selected with the on/off switch of your pool lights. The LEDs can also be warm white only or natural white only. The LEDs are driven by constant current. The True PWM technology is adopted for the lights. High-temperature protection safeguards the LEDs when the internal temperature exceeds a critical level. All these technologies guarantee a long working life of the LED lamps. Be Compatible with the International standard DMX512 (1990) protocol, Built-in DMX512 standard signal

Decoding drive can be used in a DMX512 control box. The lights must be used/operated while fully submerged underwater only.

- This lamp is designed to be fixed in new pools and/or pools with existing surface-mounted lamps that need replacement.
- This lamp is designed to be used only once. Should it become defective, repair is impossible, and replacement is necessary.
- The manufacturer is not responsible in any circumstances for assembly, installation, or start-up
 of any electric components which have been inserted or handled at locations other than its
 own premises.

16 Programs of RGB LED Bulbs

White: sun white
 Red: one color red
 Green: one color green

4. Blue: one color blue

5. Green-blue: fixed color green/blue 6. Red-green: fixed color red/green

7. Blue-red: fixed color blue-red

8. Evening sea: slow animation red/blue9. Evening rivers: slow animation red/green

10. Riviera: slow animation green/blue

11. White: neutral white

12. Rainbow: slow animation blue/red/green

13. River of colors: program 12, followed by program 15

14. Disco: fast animation

15. Four seasons: slow animation in red/blue/green/violet

16. Party: fast animation

Installation

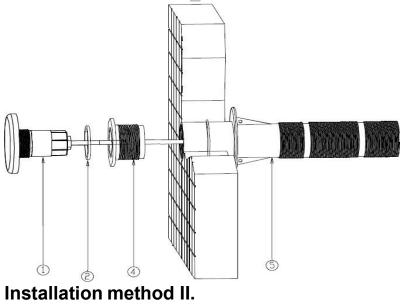
All lamps should be placed on the wall of the pool below the water surface, in areas that are easily accessible from the upper edge of the pool.

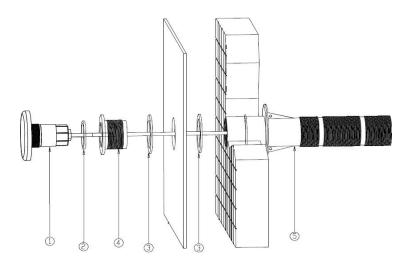
- All lamps should be installed on the same transformer and switch.
- The lights can be installed for both concrete pools and fiberglass pools.
- The lights fit into standard 1.5" wall fittings of swimming pools.
- The lamp is supplied with a cable of 2m, 4m, 6m, 10m, 16m, or 20m according to the needs of the user, making it possible to install multiple lamps connected to a single junction box.

The light can be fixed on concrete or stone wall pools, thin wall pools, fiberglass wall pools, metal wall pools, or wooden wall pools with a liner.

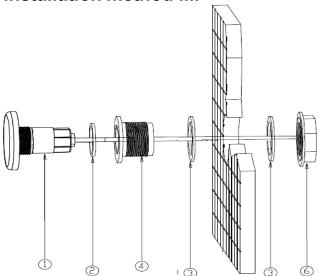
It can be threaded into the 1.5" female-thread wall fitting or conduit/pipe

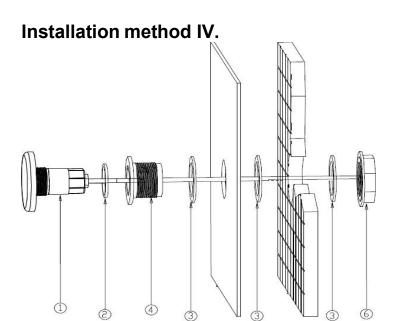
Installation method I.



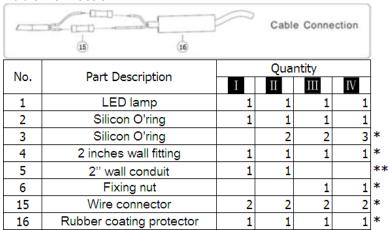


Installation method III.



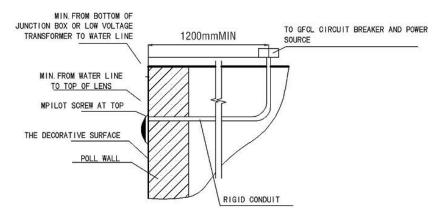


Cable Connection



The parts marked with an asterisk (*) are not included and must be purchased separately. The parts marked with ** are not included.

The drawing below illustrates the connection process for the cable from the lamp to the power source.



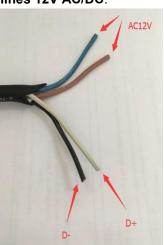
Installation Diagram

Ordinary-Connection:

BROWN and **BLUE** lines are input power lines 12V AC/DC.

DMX-Connection:

WHITE line is signal line"+", BLACK line is signal line"-". BROWN and BLUE lines are input power lines 12V AC/DC.



Maintenance & Replacement

There is no maintenance required for this lamp – it is designed to be used only once, meaning that replacement is necessary if it becomes defective (repairing is impossible). Before handling, ensure that no voltage is supplied to the lamp. The light is designed to be replaced without cutting any cable. To replace, unfasten the lamp from the wall fittings, unfasten the nut, and disconnect the wire. Then, connect the wire to a new lamp and secure it with a nut. Next, reattach the light to the wall fittings. Ensure the new lamp is of the same model and characteristics as the one being replaced.



Start-up

- The lamp should only operate underwater while secured to the vertical walls of the pool. **Never** switch on the light if it is not underwater.
- In case of colored lamps, 16 pre-programmed effects and combinations may be selected using the on/off switch of your pool lights. Just switch off and switch on within 2 seconds.
- If the light is powered off for more than 20 seconds, it will keep the latest program when it is turned on again.
- To achieve synchronization, confirm all lamps are installed correctly on the same switch. After
 they have been powered off for more than 20 seconds, switch them on and off three times
 continuously, and then turn them on again. They will all go to program 5. Now you can select a
 program for them by switching it on and off within 8 seconds.
- Alternatively, we recommend using our optional controller (with in-built safety transformer), which comes with (a) remote control for easy operation and (b) auxiliary connection of 24V for operation of any other electrical item.

Safety Warnings

Those in charge of installation should possess the required qualifications for this type of work.

- Avoid making contact with the electric voltage.
- Comply with the current standards regarding accident prevention.
- IEC 364-7-702 standards must be observed: WIRING IN BUILDINGS, SPECIAL WIRING, SWIMMING POOLS.
- Replacement must be performed with the lamp disconnected from the electric power system.

Warranty

The manufacturer warrants these LED underwater lights against defects in materials and workmanship for a period of one year from the date of purchase. This warranty does not cover damage to the fixture resulting from misuse, accidental damage, improper handling, or installation, and specifically excludes liability for direct, incidental, or consequential damages.

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