



WALL MOUNTED UNDERWATER LED SWIMMING POOL LIGHT



HIDRO-PW100

INSTALLATION AND MAINTENANCE MANUAL

Please read this operation manual carefully and keep it for future reference.



WARNING

1. Only a licensed or certificated electrician or a qualified serviceman is allowed to install or maintain this product.
2. Must be installed in accordance to the requirements of your government standard or local authorities.
3. Before servicing the light, disconnect the power supply from the circuit breaker. Failure to do so could result in serious injury, death and or damage to the property.
4. Never handle it with wet hands and feet.
5. This light is design for use only when fully submerged in water.
6. Never operate this light for more than 1 minute unless it is totally submerged in water.
7. All lights are required to be disconnected from the main electricity before any operation of maintenance.
8. Maximum depth range for the light installation: 1-10 meter.
9. Maximum water temperature range for the light: -20°C-35°C

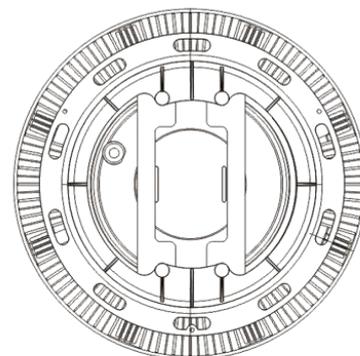
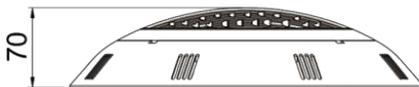
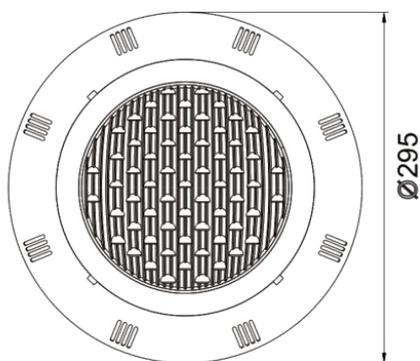
1. Technical Parameters

Power: 12V / AC

Power:

SMD LED			High Power LED		
<input type="checkbox"/> 10W	<input type="checkbox"/> 20W	<input type="checkbox"/> 35W	<input type="checkbox"/> 12W	<input type="checkbox"/> 18W	<input type="checkbox"/> 24W

Dimension: $\Phi 295 \times 70 \text{mm}$



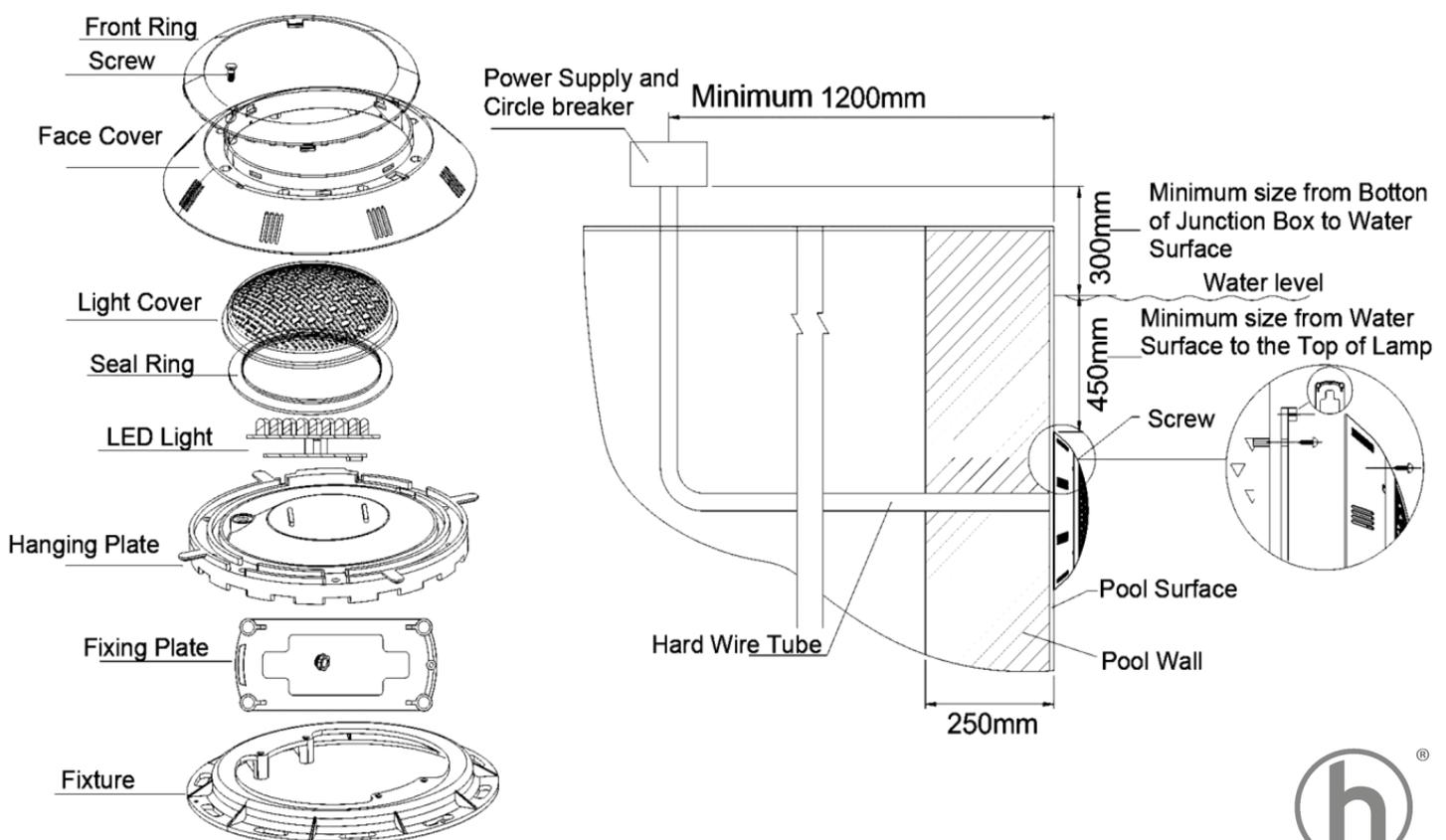
2. Installation

2.1 Preparing to Installation

1. Consult the local Government Building Department to be certain that the pool's electrical system meets all applicable requirements.
2. This light is designed to be used in new pools and/or pools with existing same swimming lights that need replacement.
3. This light can be installed in both concrete pool and vinyl pool.
4. Use only good quality stainless steel screws or screws provided along with the light.
5. The light must be used or operated while fully submerged underwater only. Never switch on the light if it is not underwater.

2.2 Installation Notes

1. Make sure to install the niche/housing on a vertical wall of the pool.
2. Make sure the top of the light should be at least 450mm below normal water surface.
3. Reserve at least 150mm long backup wire wrapping on the back of the light, for the convenience of replacing.
4. The junction box or the 12V low voltage transformer, should be located at least 300mm above the water surface, at least 200mm above the ground, and at least 1200mm from the edge of the pool.
5. The light fixture and all metal parts that are within 250cm of the pool must be properly protected with non-ductile materials and that the connections must be waterproof.
6. To achieve synchronization, make sure all the lights are installed correctly on model and characteristics as the one being replaced.



3. RGB Light Color Control Operation

16 pre-programmed color modes of RGB light:

1	BLUE: static blue	2	RED: static red
3	GREEN: static green	4	RB: static purple
5	BG: static cyan-blue	6	RG: static yellow
7	RGB: static white	8	RGB change gradually to G/R/B
9	R-RG-G slow animation	10	G-GB-B slow animation
11	B-BR-R slow animation	12	RG-GB-BR slow animation
13	R-G-B fast animation	14	R-B-G fast animation
15	G-RB-B-R-RGB-GB-RG	16	R-G-B slow animation

Remark: When the lights without internal controller option, the light programs will keep changing by fixed automatic cycle switch.

RGB Operation:

1. Any of the 16 modes can be selected with the ON/OFF switch of your pool lights.
2. Turn the light ON.
3. The first time the light is turned on, the 16 color modes will begin to run automatically.
4. To change the color, turn the light OFF and then ON within 15 seconds. Continue turning OFF and ON until the desired light color mode is reached. When the light is turned OFF for more than 1.5 seconds, it will return to the beginning of the color cycle (mode 0).

Remote Controller Options: There are 4 optional control ways

- 1) Power switch control,
- 2) Remote Control (Hidro-CTRL),
- 3) Remote Control + Power switch Control
- 4) Wi-Fi remote Control (WIFI-103)

The color modes can also be selected with the controller. One remote control device can be adapted to 30 pool lights simultaneously within 100 meters.

4. Maintenance and Replacement

1. There is no maintenance required for this light. It is designed to be used only once, meaning that replacement is necessary if it becomes defective. The repairing is impossible.
2. Before servicing the light, always disconnect power at the circuit breaker to it. Make sure there is NO voltage supplied to the light.
3. To replace the light, unfasten it from the bracket. Make sure the new light is the same switch.

5. Warranty

1. The manufacturer warrants this led underwater light against defect in materials and workmanship for a period of two (2) years from the date of purchase.
2. This warranty is limited to the first retail purchaser, it is not transferable, and does not apply to products that have been moved from their original installation sites. This warranty does not cover failures or malfunctions from improper installation and/or operation.
3. 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.
4. The liability of the manufacturer shall not exceed the repair or replacement of defective parts. It specifically excludes liability for direct, incidental or consequential damages.