

Instruction Manual

for Swimming Pool Light

HQUA-PN01DC

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HQUA Technical Support Team At TX

Section 1 Safety Information

Electrical Safety

Negligence to these instructions may result in serious injury or death.

Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury due to the electrical shock.

Grounding Plug

- This product must be grounded to reduce the risk of electrical shock. The system is equipped with a grounding plug. This product is equipped with a cord having a grounding wire with an appropriate grounding plug.
- The plug must be plugged into a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.
- When used outdoors, install only to a covered Class A GFCI protected receptacle that is weatherproof with the power unit connected to the receptacle. If one is not provided, contact a qualified electrician for proper installation. Ensure that the power unit and cord do not interfere with completely closing the receptacle cover.
- Do not use an appliance leakage current interrupter (ALCI) in place of a GFCI since the ALCI will not protect people.
- Do not use extension cords, timers, plug adaptors or converter plugs to connect unit to electric supply; provide a properly located outlet.

Electric Shock

- To reduce the risk of electric shock, do not open the light when someone is in the pool.
- Do not throw, drop or drag the product heavily.

Safety Information

- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- Do not drown the transformer into the water. But it is IP67 and weatherproof.
- Do not operate the product if transformer housing is cracked or showing water leakage; remove from pool or water immediately.
- Do not try to repair the LED light or transformer on your own.
- Do try to open the connector between the plug and the transformer. Figure 1.
- Do not disassemble the lens of the LED light or try to remove or damage the waterproof on the surface of LEDs. Figure 2.



Figure 1.



Figure 2.

Other Cautions

- Do not stare directly at the light emitted by this product. Long-term gaze may result in glare and other eye diseases.

Section 2 General Information

HQUA-SP-PN01DC is a dimmable and color changing swimming pool LED light, which is very easy to install and safety. It could easily fit for your old wet niche (light fixture). Replace it with this LED light and face ring. The output voltage is 12V DC, which is not harmful for human body at all. It could provide enough Illumination equal to the 300W incandescent bulb.

Hereby, we will introduce the structure, specification and installation of the unit.

2.1 System Components

Weatherproof Transformer HLG-40H-15A with 3-pin Plug, UL listed



RGBW control system M4-3A with a waterproof junction box



Full Waterproof LED light Assembly with 100' cord and Face Ring



2.2 Specification

Item Name	Wattage	Volts	White Luminous flux	Color Changing	Dimmable
SP-PN01DC	36W	110V	3000lm	YES	YES

2.3 Installation

Precaution

Keep people out of the swimming pool when you operate the installation.

Always turn off the main electrical switch or circuit breaker.

1. Remove the old face ring, then remove the light assembly from the niche. Put the face ring and the light on the pool deck.
2. Please disassemble the old light and disconnect the wires. Use a fish tape reel puller to remove the old electric cord. You have to do so because we use 5C cable for the RGBW system.
3. Please open the waterproof junction box of the M4-3A receiver, and disconnect the outlet (5 pin side). Pull the new electric cord out from the power supply side through the conduit and reserve enough cords on the LED light side so you could replace the

light in the future.

We would provide light assembly and waterproof connector as a replacement kit. Cut the old electric cord, strip each wire and re-connect them with our LED light replacement by a 5C connector (PN1005). You could just replace the LED light without replacing the whole electric cord which is in a good condition.

Figure 4.



Figure 3.

- Using a rag to dry the water on the open side of the electric cord. Please follow the wiring rules to connect the wires with the outlet of the M4-3A controller:

Brown to R

Half Yellow Half Green to G

Blue to B

Black to W

Grey to V+

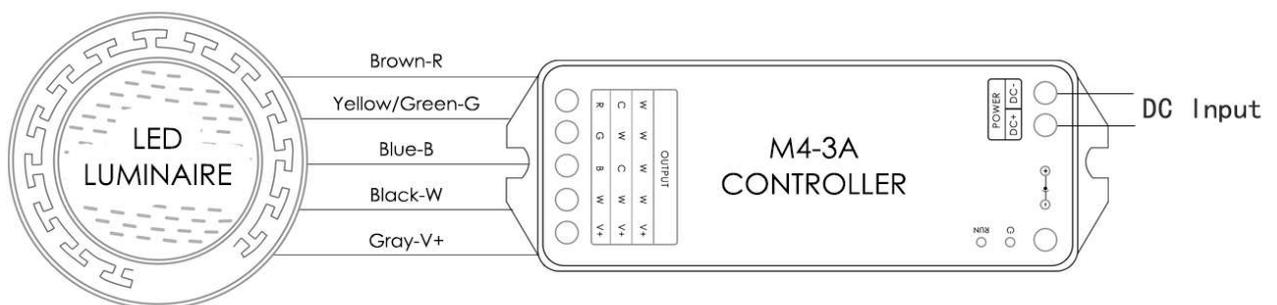


Figure 4.

- Roll remain electric cords around the LED light assembly, put it into the wet niche. Screw on the face ring to secure the light assembly into the niche. Figure 4.



Figure 5.

6. Plug the transformer into the outlet and power it on. Test the LED light with no one in the swimming pool.
7. Apply the power and learn how to control the LED light as follows:

2.4 M4 Remote Controller Operation

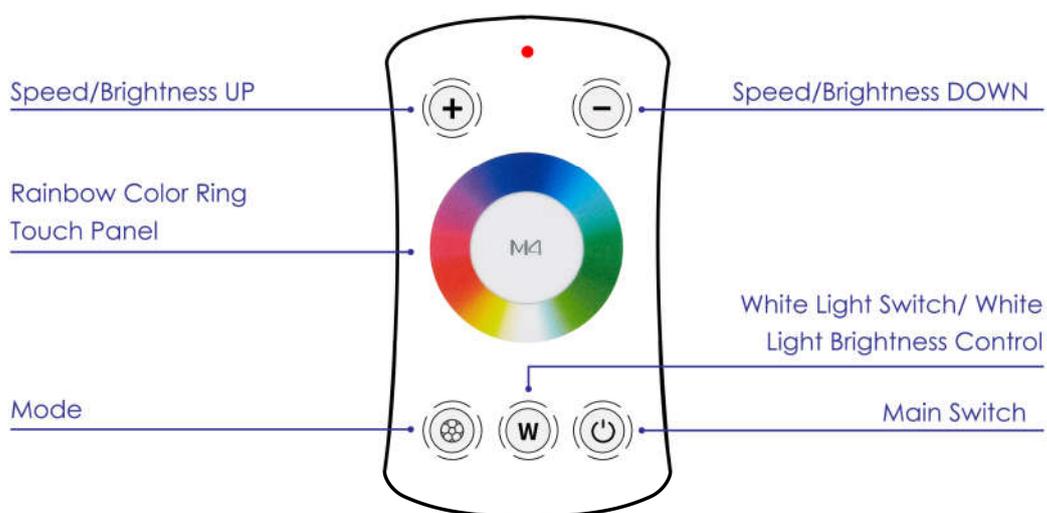


Figure 6.

The Instruction of the Control Modes:

No.	Mode	No.	Mode
1	RED	7	White
2	GREEN	8	3-Colors Jump Change
3	Blue	9	7-Colors Jump Change
4	Yellow	10	3-Colors Flashing
5	Purple	11	7-Colors Flashing
6	Cyan	12	Black

In Mode 1-7 : “+” and “-” control the brightness

In Mode 8-11: “+” and “-” control the changing speed

When there is no operation about 30 secs, the controller will fall into sleep to save power.

Any button would wake the controller.

Instruction of M4-3A RGBW Control Converter/Receiver



Figure 7.

The Converter/Receiver M4-3A and Remote Controller M4 are already paired. If you find the connection is failed. You might need to reset the connection:

1. Press the pair button for over 5 seconds. It would delete the pair.
2. Click the pair button for a short time, the operating indicator would keep working, click any button on the remote controller M4. It would flash a few times, and pair successfully.

Section 3 Troubleshooting

Problem	Cause	Solution
There is water inside the light.	It is acceptable and safety.	Don't need any particular move to deal with it. Special waterproof material will protect it.
The LED pool light does not light up at the beginning.	No power supply.	Check the receptacle first to see if the electricity is available
	Wrong Connection.	Check the connection part in step 4 to see if the wires are wrong connected due the wrong color.
	The LED pool light is damaged somehow.	Contact HQUA for more help.
The LED pool light does not light up or it is dim after a few times using.	The power cord is loose.	Check the wiring connection first without power supplying.
	LED lights failed	Contact HQUA for more help.
	The GFCI is tripped.	Contact HQUA for more help.
M4 controller is not working.	Pair failed.	Follow 2.4 to Reset the control.

Section 4 After-Sales Service

If you need any support, or have questions about the system, please contact our Technical Support team via hqua.tech@gmail.com and we will be glad to assist you. We sincerely hope that you enjoy the benefits of bright and safe pool illumination after the installation of HQUA inground swimming pool light.

Our Commitment

Specific Warranty Coverage

3-Year Limited Warranty for the HLG-40H-15A transformer and power supply.

HQUA warrants that the **transformer** of PN01 product is free from defects of material and workmanship for a period of 3 years from the date of purchase. During this period, HQUA will repair or replace, at its option, any defective HQUA UV chamber. Please return the defective part to your dealer for claim.

2-Year Limited Warranty for M4-3A RGBW Control System

HQUA warrants that the M4-3A is free from defects of material and workmanship for a period of 2 years from the date of purchase. During this period, HQUA will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer for claim.

2-Year Limited Warranty for LED pool light

HQUA warrants that the LED pool light is free from defects of material and workmanship for a period of 2 years from the date of purchase. During this period, HQUA will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer for claim.

General Conditions and Limitations

None of the above warranties covers damage caused by improper use or maintenance, accidents, acts of God or minor scratches/imperfections that do not materially impair the product operation. The warranties do not cover products that are not installed as described in the applicable User Manual either. Parts repaired or replaced under these warranties will be covered up to the end of applicable warranty period.

The above warranties include the cost of shipment and handling of returned items. The limited warranties described above are the only warranties applicable to the HQUA series products. These limited warranties outline the exclusive remedy for all claims based on a failure or defect of any the products, whether the claim is based on contract, tort (including negligence), strict liability or otherwise. These warranties are in lieu of all others regardless of written, oral, implied or statutory ones. Without limitation, no warranty of merchantability or of fitness for a particular purpose shall apply to any of these products.

Part Number List

Part Number	Description
PN01DCL	RGBW Led Light Assembly 35W,12V DC
PN01PC	Weatherproof Transformer HLG-40H-15A
PN01CS	M4-3A Control System
PN01CS01	M4 Remote Controller
PN01CS02	M4-3A Control Receiver
PN01CS03	Waterproof Junction Box for M4-3A Receiver
PN01DCC	5C×22 AWG,100' Weatherproof Electric Cord
Accessories	
PN1001	#10-24 x 1-1/4 in. Phillips Flat Head Stainless Steel Sheet Metal Screw
PN1002	10" face ring for PN01 LED light
PN1004	10" Curve Stainless Steel Washer
PN1005	5C 22AWG Waterproof Connector

.....The End.....