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Zuomeng ZM-175

Zuomeng ZM-175 Pool Light Controller User Manual

Smart WiFi & Bluetooth APP Control for Pentair IntelliBrite LED Pool Lights

1. Introduction

Thank you for choosing the Zuomeng ZM-175 Pool Light Controller. This device is designed as a direct replacement for the Pentair 618031 controller, offering advanced smart control capabilities for your Pentair IntelliBrite LED pool and spa lights. With WiFi and Bluetooth connectivity, you can manage your pool lighting through the GeniLife APP, enhancing your outdoor environment with dynamic lighting effects and smart scheduling.
This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new pool light controller. Please read it thoroughly before installation and keep it for future reference.

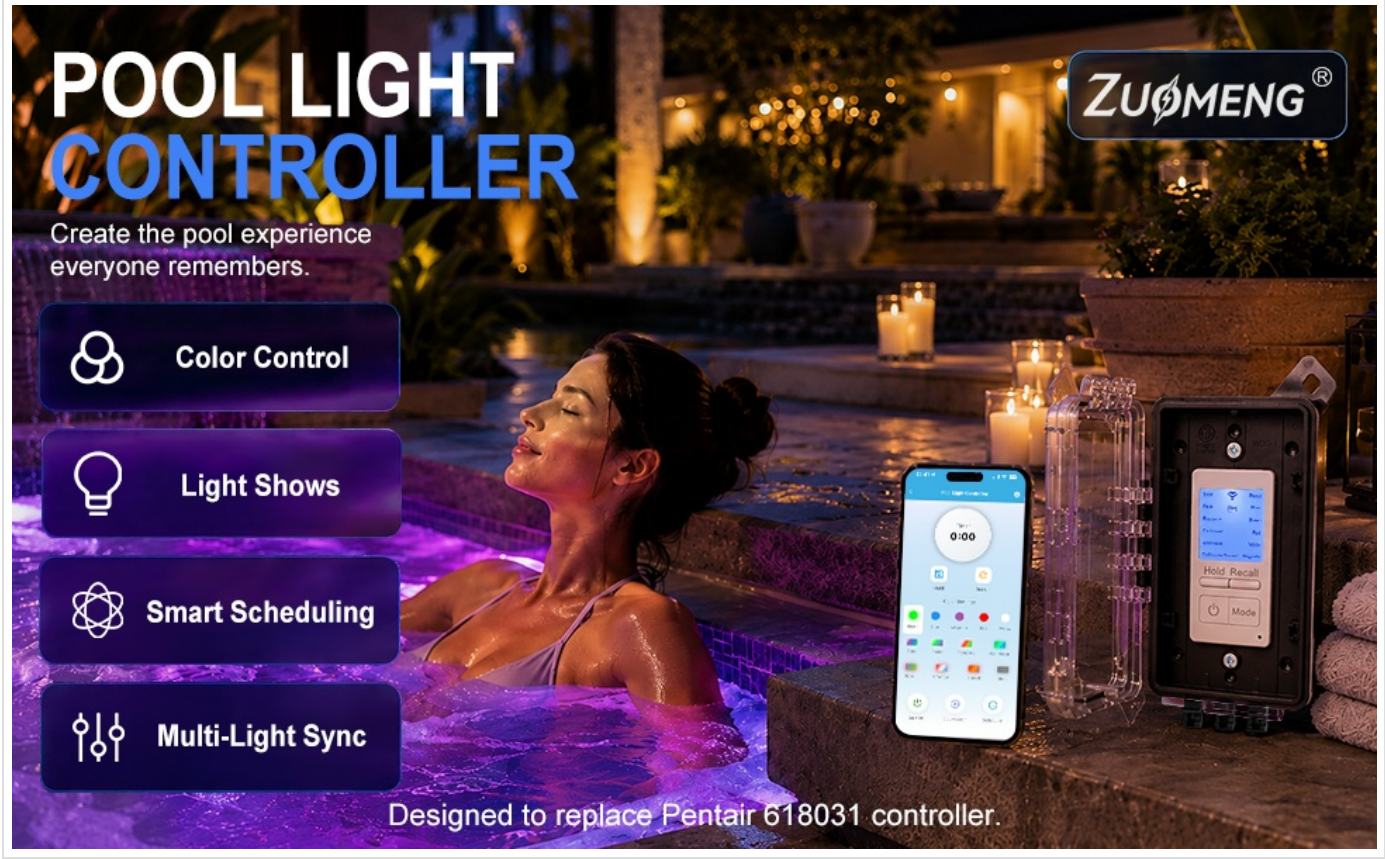


Image: The Zuomeng ZM-175 Pool Light Controller shown with its clear waterproof enclosure, alongside a smartphone displaying the GeniLife app interface for adding a pool light device. The background features a beautifully lit pool at night, illustrating the smart control capabilities.

2. Important Safety Information

Please observe the following safety precautions to reduce the risk of injury, electric shock, fire, or property damage:

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Always disconnect power at the circuit breaker before installing or servicing the controller.
- **Water Exposure:** The controller features an ETL-listed waterproof enclosure designed for outdoor pool environments. Ensure the enclosure is properly sealed and maintained to prevent water ingress.
- **Compatibility:** This controller is specifically designed for Pentair IntelliBrite LED pool and spa lights. Do not use with incompatible lighting systems.
- **Load Capacity:** Do not exceed the maximum load capacity of 300W for connected LED lights.

3. Key Features

- **Smart APP Control:** Seamlessly control your pool lights via the GeniLife APP using dual-band 2.4G/5G WiFi and Bluetooth connectivity.
- **Immersive RGB Lighting Effects:** Choose from 7 dynamic color-changing shows (Party, Romance, Caribbean, American, California Sunset, Royal, SAM) and 5 fixed colors (Green, Blue, Magenta, Red, White).
- **Twilight Mode & Smart Scheduling:** Automatically turn lights ON at sunset and OFF at sunrise. Customize countdown timers and daily schedules directly from the APP.
- **Pentair 618031 Replacement:** Engineered to replace the Pentair 618031 controller, maintaining familiar control logic with an upgraded LCD display and streamlined interface.
- **Outdoor Waterproof Design:** ETL-listed waterproof enclosure ensures reliable operation in humid and wet outdoor pool environments.
- **Multi-Light Synchronization:** Synchronize multiple pool and spa lights for a cohesive lighting experience.



Image: The Zuomeng ZM-175 Pool Light Controller and its clear waterproof housing, with a smartphone displaying the GeniLife app. Below,

icons represent iOS/Android compatibility and controller mode adjustment. The image highlights 7 dynamic color shows and 5 fixed colors, set against a vibrant pool party backdrop.

4. Installation and Setup

4.1 Pre-Installation Checklist

- Ensure power to the pool lighting circuit is OFF at the breaker.
- Verify compatibility with your existing Pentair IntelliBrite LED pool and spa lights.
- Gather necessary tools (screwdriver, wire strippers, electrical tape, etc.).

4.2 Wiring Diagram

The Zuomeng ZM-175 controller supports two main connection options depending on your pool light voltage. Always consult a qualified electrician for installation.

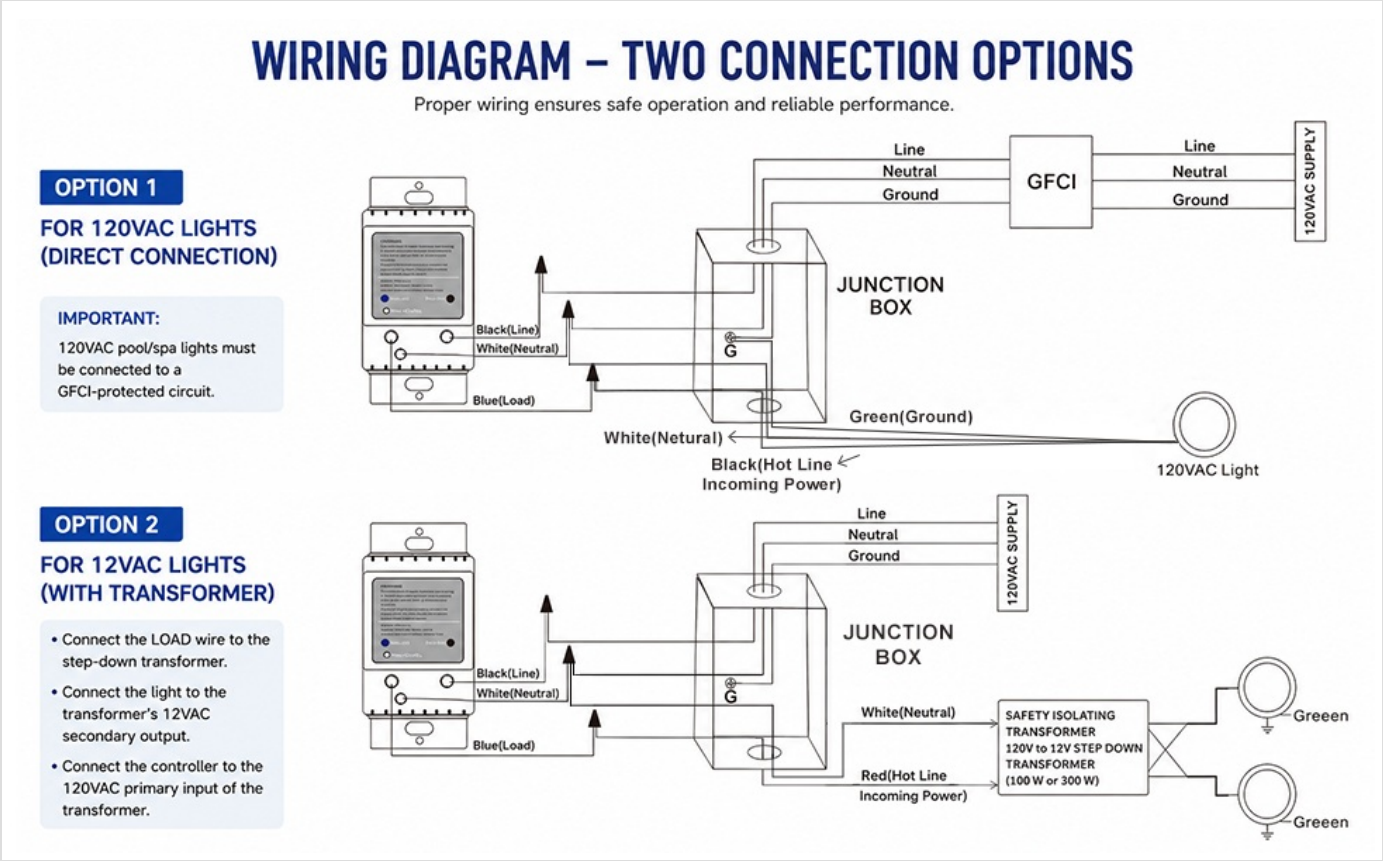


Image: A detailed wiring diagram illustrating two connection options for the Zuomeng ZM-175 Pool Light Controller. Option 1 shows direct connection for 120VAC lights, emphasizing GFCI protection. Option 2 details connection for 12VAC lights using a step-down transformer, including connections for line, neutral, ground, and load wires.

Option 1: For 120VAC Lights (Direct Connection)

- Connect the Line, Neutral, and Ground wires from the 120VAC supply to the appropriate terminals on the controller.
- Connect the Blue (Load) wire from the controller to the 120VAC pool/spa light.
- **Important:** 120VAC pool/spa lights must be connected to a GFCI-protected circuit.

Option 2: For 12VAC Lights (with Transformer)

- Connect the Line, Neutral, and Ground wires from the 120VAC supply to the primary input of the safety isolating

transformer (220V to 12V step-down).

- Connect the controller's Blue (Load) wire to the step-down transformer's 12VAC secondary output.
- Connect the 12VAC pool/spa lights to the transformer's 12VAC secondary output.

4.3 Enclosure Installation

The controller comes with an ETL-listed waterproof enclosure. Mount the enclosure in a suitable outdoor location, ensuring it is securely fastened and the cover is properly closed to maintain its waterproof rating.

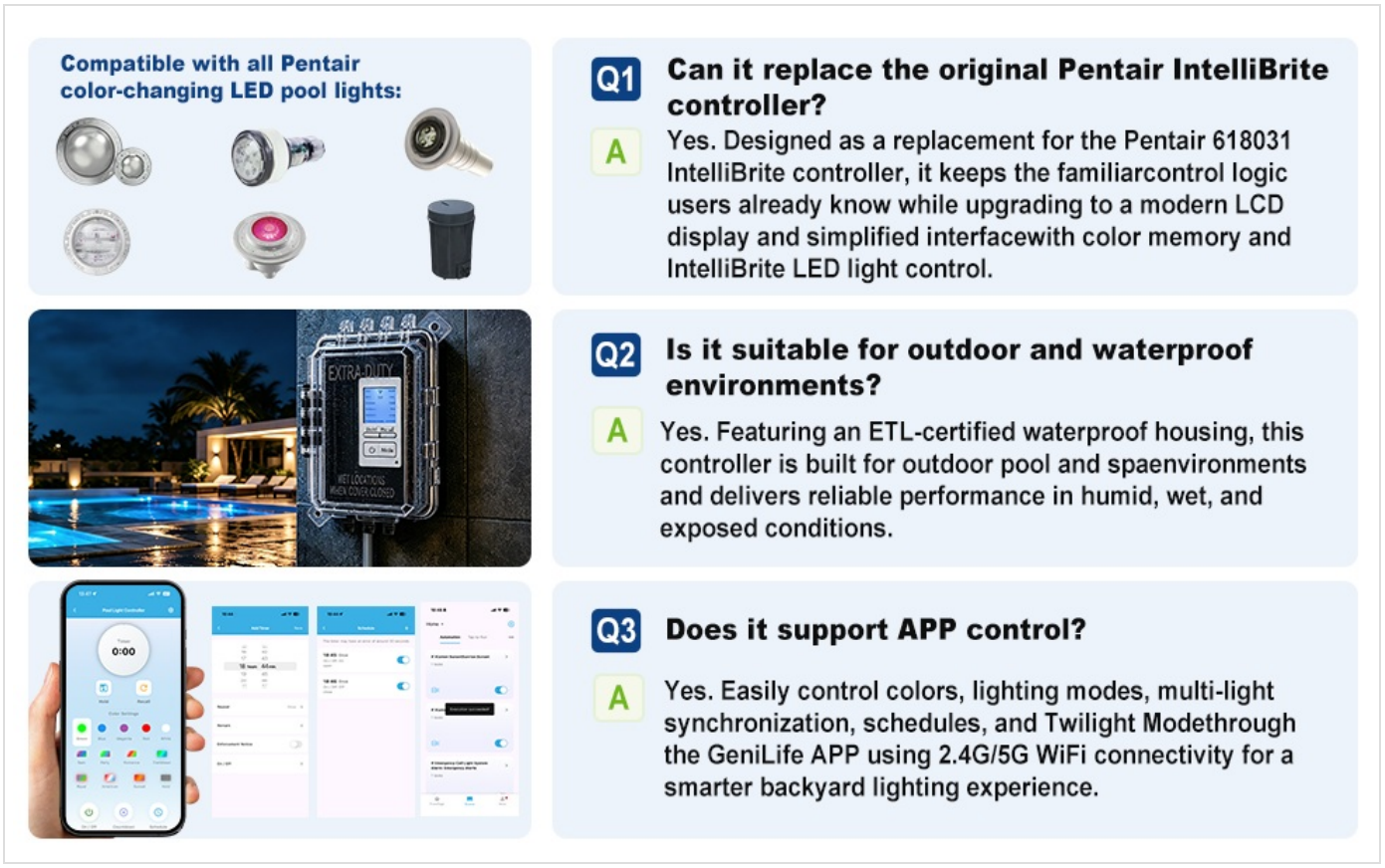


Image: The Zuomeng ZM-175 Pool Light Controller housed within its clear, extra-duty waterproof enclosure, mounted on an outdoor wall next to a pool. Text highlights its suitability for wet locations and support for up to 300W lighting load.

5. Operating Instructions

5.1 GeniLife APP Control

The GeniLife APP provides comprehensive control over your pool lights. Download the app from your device's app store and follow the in-app instructions to connect your controller via WiFi (2.4G/5G) or Bluetooth.

- **Color Control:** Instantly change colors and switch between various lighting effects.
- **Dynamic Shows:** Select from 7 dynamic color-changing shows: Party, Romance, Caribbean, American, California Sunset, Royal, and SAM.
- **Fixed Colors:** Choose from 5 fixed colors: Green, Blue, Magenta, Red, and White.
- **Multi-Light Sync:** Synchronize multiple pool and spa lights for a unified display.

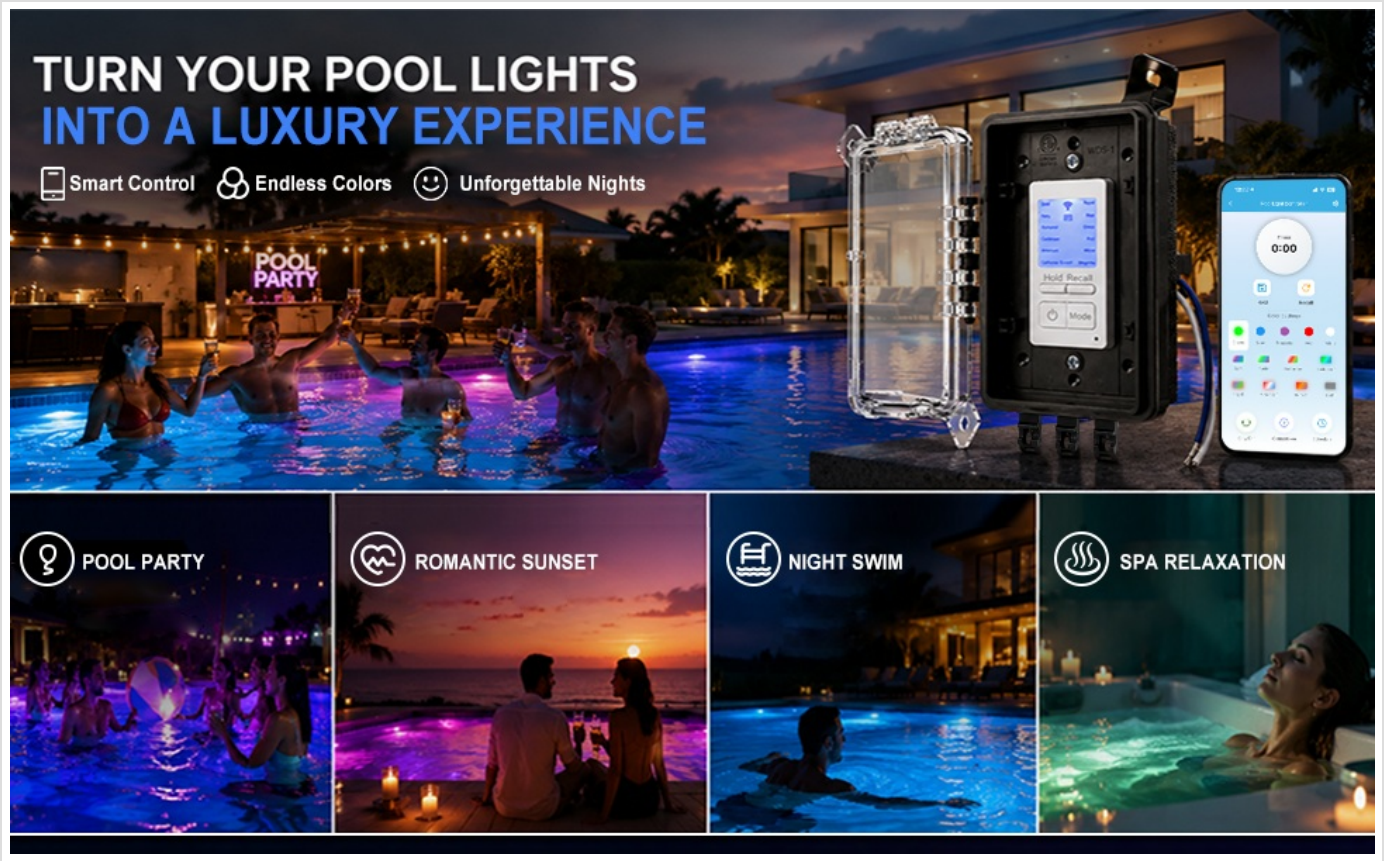


Image: A detailed view of the Zuomeng ZM-175 Pool Light Controller's modern LCD display, showing various color and mode options. The image highlights features like saving favorite colors, recalling settings, power ON/OFF, and easy color selection.

5.2 Smart Scheduling and Twilight Mode

Automate your pool lighting for convenience and energy efficiency.

- **Twilight Mode:** Enable this feature in the APP to automatically turn your lights ON at sunset and OFF at sunrise.
- **Custom Schedules:** Set daily schedules and countdown timers for specific lighting modes or ON/OFF times.

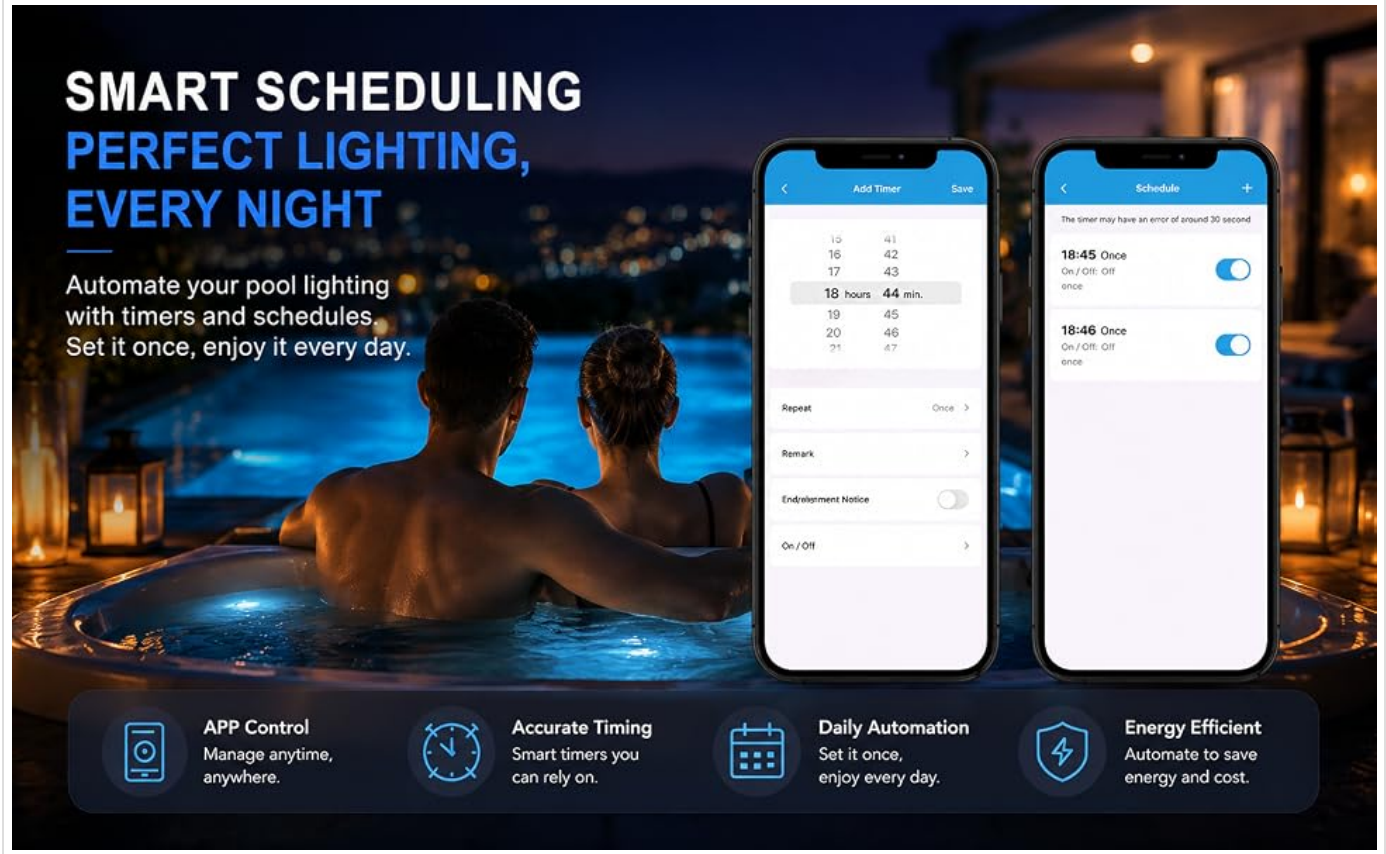


Image: A smartphone screen displaying the GeniLife app's Twilight Mode settings, showing options to automatically operate lights at sunset and sunrise. The background features a serene pool scene at dusk, emphasizing the automated lighting feature.

5.3 Manual Control (LCD Display)

The controller features a modern LCD display and physical buttons for direct control:

- **Power ON/OFF:** Use the power button for quick control of your pool lights.
- **Mode Button:** Cycle through available colors and light shows.
- **Hold/Recall:** Press and hold to save your current color or show. Press to recall saved settings.

6. Maintenance

The Zuomeng ZM-175 Pool Light Controller is designed for minimal maintenance. Follow these guidelines to ensure longevity:

- **Regular Inspection:** Periodically check the waterproof enclosure for any signs of damage or wear. Ensure all seals are intact.
- **Cleaning:** Clean the exterior of the controller and enclosure with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Power Disconnection:** Always disconnect power at the circuit breaker before performing any maintenance or inspection.

7. Troubleshooting

Here are answers to some common questions and issues:

Q1: Can it replace the original Pentair IntelliBrite controller?

A: Yes. Designed as a replacement for the Pentair 618031 IntelliBrite controller, it retains familiar control logic while upgrading to a modern LCD display and simplified interface with color memory and IntelliBrite LED light control.

Q2: Is it suitable for outdoor and waterproof environments?

A: Yes. Featuring an ETL-certified waterproof housing, this controller is built for outdoor pool and spa environments and delivers reliable performance in humid, wet, and exposed conditions.

Q3: Does it support APP control?

A: Yes. Easily control colors, lighting modes, multi-light synchronization, schedules, and Twilight Mode through the GeniLife APP using 2.4G/5G WiFi connectivity for a smarter backyard lighting experience.

If you encounter issues not covered here, please refer to the support section for contact information.

8. Specifications

Feature	Detail
Model Number	ZM-175
Manufacturer	Zuomeng
Compatibility	Pentair IntelliBrite LED Pool and Spa Lights (Replacement for Pentair 618031)
Connectivity	Dual-band 2.4G/5G WiFi, Bluetooth
Control Method	GeniLife APP, On-device LCD Display & Buttons
Lighting Modes	7 Dynamic Color Shows, 5 Fixed Colors
Special Features	Twilight Mode, Smart Scheduling, Color Memory, Multi-Light Sync
Max Load Capacity	300W (Pentair color LED lights)
Enclosure Rating	ETL-listed Waterproof for Outdoor Environments
Product Dimensions	2.54 x 2.54 x 2.54 cm (Controller unit); 372 g (Weight)

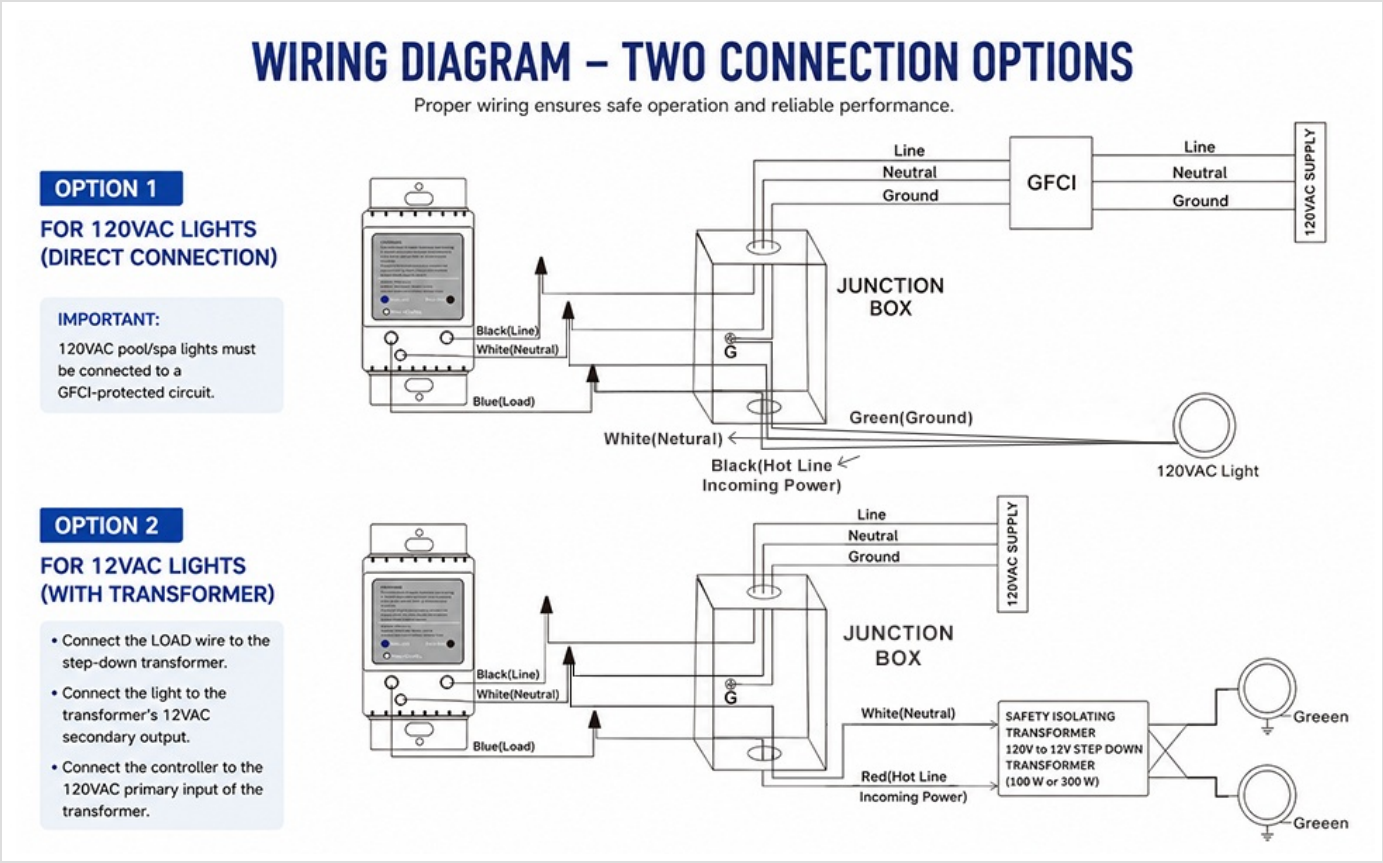


Image: A visual representation of the Zuomeng ZM-175 Pool Light Controller with its key dimensions labeled in inches, including the controller unit and its mounting bracket.

9. Warranty and Support

For warranty information or technical support, please contact Zuomeng customer service through the retailer where the product was purchased or visit the official Zuomeng website. Please have your model number (ZM-175) and purchase date available when contacting support.

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