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› [Pentair](#) /

› Pentair IntelliBrite 5G White Underwater LED Pool Light User Manual

Pentair 601202

Pentair IntelliBrite 5G White Underwater LED Pool Light User Manual

Model: 601202

1. INTRODUCTION

Thank you for choosing the Pentair IntelliBrite 5G White Underwater LED Pool Light. This advanced LED lighting system is designed to provide brilliant, energy-efficient illumination for your swimming pool. Utilizing superior lens geometry and an exclusive reflector design, it ensures a wider and more uniform light distribution. This manual provides essential information for the safe installation, operation, and maintenance of your new pool light.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of Electric Shock. This product must be installed by a qualified professional in accordance with all applicable local and national electrical codes. Failure to do so can result in serious injury or death.

- Always disconnect power to the pool light circuit at the circuit breaker before attempting any installation, service, or maintenance.
- The light fixture must be fully submerged in water before it is turned on. Operating the light out of water can cause overheating and damage to the unit.
- Ensure proper grounding and bonding of all metallic components of the pool structure and electrical equipment as required by local codes.
- Use only Pentair approved replacement parts and accessories.
- Keep children away from electrical equipment.

3. SETUP AND INSTALLATION

3.1 Unpacking

Carefully remove the IntelliBrite 5G LED Pool Light from its packaging. Inspect the light and its cord for any signs of damage. If any damage is found, do not proceed with installation and contact your supplier.

3.2 Installation Requirements

- The light is designed for 120-Volt AC power supply.
- It is compatible with Pentair stainless steel and plastic niches.
- Ensure the electrical conduit is clean and free of obstructions.
- This model comes with a 100-foot cord, providing flexibility for various installation distances from the junction box.

3.3 Mounting the Light

1. **Turn off Power:** Ensure the main power to the pool equipment is OFF at the circuit breaker before beginning any work.
2. **Feed Cord:** Carefully feed the light's electrical cord through the conduit from the niche to the junction box. Leave sufficient slack at the niche for servicing.
3. **Electrical Connections:** In the junction box, make the necessary electrical connections according to local electrical codes. Ensure all connections are secure and waterproof.
4. **Coil Excess Cord:** Coil any excess cord behind the light fixture within the niche. This allows the light to be pulled onto the deck for servicing without draining the pool.
5. **Submerge Light:** Before securing the light, place it into the pool water to ensure it is fully submerged. This prevents overheating when the light is first turned on.
6. **Secure Light:** Align the light fixture with the mounting points in the niche and secure it using the provided hardware. Ensure it is firmly seated.



Figure 1: Front view of the IntelliBrite 5G LED Pool Light, showing the clear lens and reflective housing.



Figure 2: Angled view of the IntelliBrite 5G LED Pool Light, highlighting its side profile and the entry point of the electrical cord.

4. OPERATION

The Pentair IntelliBrite 5G White LED Pool Light is typically controlled by a standard wall switch connected to the pool's electrical system. Once installed and power is restored, simply toggle the switch to turn the light on or off.

4.1 Adjusting the Beam Pattern

The pool lens of the IntelliBrite 5G light can be rotated 180 degrees to provide either a wide beam pattern for broad illumination or a narrow beam pattern for more focused lighting. This adjustment is typically made during installation or servicing when the light is out of the niche but still connected.

5. MAINTENANCE

The IntelliBrite 5G LED Pool Light requires minimal maintenance. Regular inspection and cleaning will help ensure its longevity and optimal performance.

- **Regular Inspection:** Periodically inspect the light fixture and its cord for any signs of wear, damage, or corrosion. Address any issues promptly.
- **Cleaning the Lens:** If the light output appears diminished, the lens may be covered in algae or mineral deposits. With the power OFF, carefully clean the lens with a soft brush or cloth and a mild, non-abrasive cleaner. Rinse thoroughly.
- **Do Not Operate Out of Water:** Never operate the light for extended periods when it is not fully submerged in water. This can lead to overheating and permanent damage to the LED components.

6. TROUBLESHOOTING

If you experience issues with your IntelliBrite 5G LED Pool Light, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Light does not turn on	No power to the circuit; Faulty switch; Loose wiring connection; Damaged light fixture.	Check circuit breaker; Test or replace switch; Inspect and secure wiring (power OFF); Contact a qualified technician for light inspection.
Light is dim or flickers	Low voltage; Dirty lens; Loose connection.	Verify correct voltage supply; Clean the light lens (power OFF); Check and tighten electrical connections (power OFF).
Water inside light fixture	Seal failure; Improper installation.	This indicates a serious issue. Disconnect power immediately and contact a qualified pool technician or Pentair customer support. Do not attempt to repair yourself.

7. TECHNICAL SPECIFICATIONS

- **Model:** 601202
- **Voltage:** 120 Volt AC
- **Wattage:** 400 Watt Equivalent (LED technology provides significant energy savings)
- **Cord Length:** 100 Feet
- **Dimensions (Product):** 11 inches (Length) x 11 inches (Width) x 9 inches (Height)
- **Item Weight:** 16.15 pounds
- **Energy Efficiency:** Up to 86% less energy consumption compared to comparable incandescent lights.
- **Compatibility:** Pentair stainless steel and plastic niches.

8. WARRANTY AND CUSTOMER SUPPORT

Pentair products are manufactured to the highest standards and are backed by a limited warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official Pentair website. If you require technical assistance, replacement parts, or have questions not covered in this manual, please contact Pentair Customer Support or your authorized Pentair dealer. Always provide your product model number (601202) when seeking support.

Pentair Official Website: www.pentair.com