WILAWELS D11LT06

WILAWELS 200W Low Voltage Landscape Transformer Instruction Manual

For Model: D11LT06

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your WILAWELS 200W Low Voltage Landscape Transformer. Please read this manual thoroughly before installation and use to ensure safe and efficient operation. Keep this manual for future reference.

2. Safety Information

- Always disconnect power before installing, servicing, or cleaning the transformer.
- This transformer is designed for outdoor use only.
- Ensure the transformer is mounted at least 1 foot (30 cm) above ground level.
- Do not immerse the transformer in water.
- Do not overload the transformer. The total wattage of connected lights must not exceed 200W.
- Use only low-voltage landscape lighting fixtures with this transformer.
- All wiring connections must be secure and waterproof.
- The power cord and sensor cord are ETL-certified. Do not modify them.

3. Product Overview

The WILAWELS 200W Low Voltage Landscape Transformer converts 120V AC household current to a safe 12V or 14V AC for outdoor landscape lighting. It features a built-in timer and a detachable photocell sensor for automated operation, along with multiple operating modes to suit various lighting needs.

Image: The WILAWELS 200W Low Voltage Landscape Transformer, illustrating its function of converting 120V AC input to 12V/14V AC output for landscape lighting.

Key Features:

- **200W Power Output:** Safely powers a variety of outdoor LED and halogen lights.
- **ETL Certified:** Ensures safety and quality standards.
- **Detachable Photocell Sensor:** Enables automatic dusk-to-dawn operation.
- **Six Operating Modes:** Manual On/Off, Auto On/Off (Dusk to Dawn), Countdown (2/4/6/8 hours), Timer (On/Off at set times), Dusk On Timer Off, and Test Mode.
- **Circuit Protection:** Automatically disconnects power in case of overload or short circuit.

- **Memory Function:** Retains settings after power interruptions.
- **Weather-Resistant Design:** Durable construction for outdoor conditions (rain, snow, dust, corrosion).

Components:

- Transformer Unit with Digital Display and Control Buttons
- Detachable Photocell Sensor (6ft cord)
- ETL-Certified Power Cord (3.3ft, 18AWG/3C)
- Low Voltage Output Terminals (12V AC and 14V AC)

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Video: An overview of the WILAWELS 200W/300W Low Voltage Landscape Transformer, demonstrating its features and various operating modes.

4. Setup and Installation

Mounting the Transformer:

1. Choose a suitable outdoor location near a 120V AC GFCI outlet.
2. Ensure the mounting surface is stable and the transformer is protected from direct impact.
3. Mount the transformer vertically at least 1 foot (30 cm) above ground level using appropriate screws (not included) through the mounting holes on the back.

Connecting Landscape Lights:

1. Calculate the total wattage of your landscape lights. Ensure it does not exceed 200W.
2. Strip approximately 1/2 inch of insulation from the ends of your low-voltage landscape wire.
3. Connect the landscape wire to the desired 12V AC or 14V AC output terminals on the transformer. For longer wire runs or more lights, the 14V AC terminal can help compensate for voltage drop.
4. Tighten the terminal screws securely to ensure a good electrical connection.
5. Ensure all connections are waterproofed using appropriate connectors or sealant.

Connecting the Photocell Sensor:

1. Plug the detachable photocell sensor into the designated port on the transformer.
2. Position the photocell sensor in a location that receives natural daylight and is not obstructed by shadows or artificial light sources (e.g., porch lights) that could interfere with its operation.

Image: Rear view of the transformer highlighting the circuit breaker, dual terminal outputs (12V/14V), and the connection point for the photocell sensor.

5. Operating Modes

The transformer offers six distinct operating modes, controlled via the digital display and buttons.

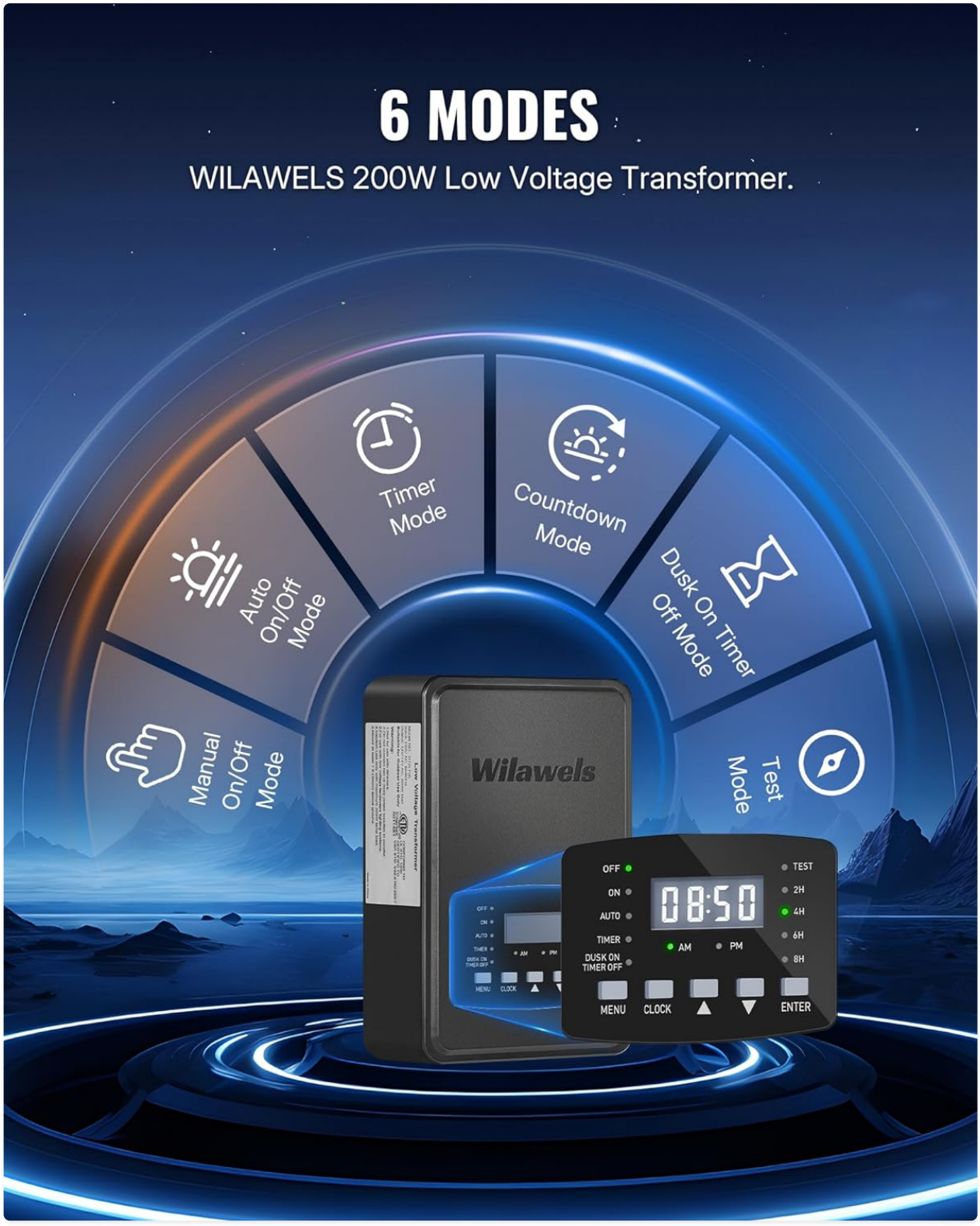

Image: A visual representation of the six available operating modes for the WILAWELS transformer.

5.1. Manual On/Off Mode

Allows you to manually turn the lights on or off at any time. This mode bypasses all timer and photocell functions.

Image: Demonstration of manual control, showing landscape lights being turned on and off as needed.

5.2. Auto On/Off (Dusk to Dawn) Mode

Utilizes the photocell sensor to automatically turn lights on at dusk and off at dawn. This mode requires the photocell sensor to be connected and properly positioned.

Image: Illustration of the dusk-to-dawn photocell sensor in action, with lights off during the day and automatically illuminating at night.

5.3. Countdown Mode

Turns lights on at dusk and automatically turns them off after a set duration of 2, 4, 6, or 8 hours. This mode also requires the photocell sensor.

Image: Example of programmable timers in countdown mode, where lights activate at dusk and turn off after a specified number of hours.

5.4. Timer Mode

Allows you to set specific ON and OFF times for your landscape lights. The photocell sensor is not used in this mode.

Image: Illustration of setting a custom lighting schedule using the timer mode, allowing precise control over activation and deactivation times.

5.5. Dusk On Timer Off Mode

Turns lights on at dusk (using the photocell) and turns them off at a specific set time. This combines photocell activation with a timed shutdown.

Image: Depiction of the Dusk On Timer Off mode, where lights are activated by dusk and then turn off at a user-defined time.

5.6. Test Mode

Activates the lights for a short period to test connections and light sensor placement. This helps in determining the optimal location for the photocell sensor.

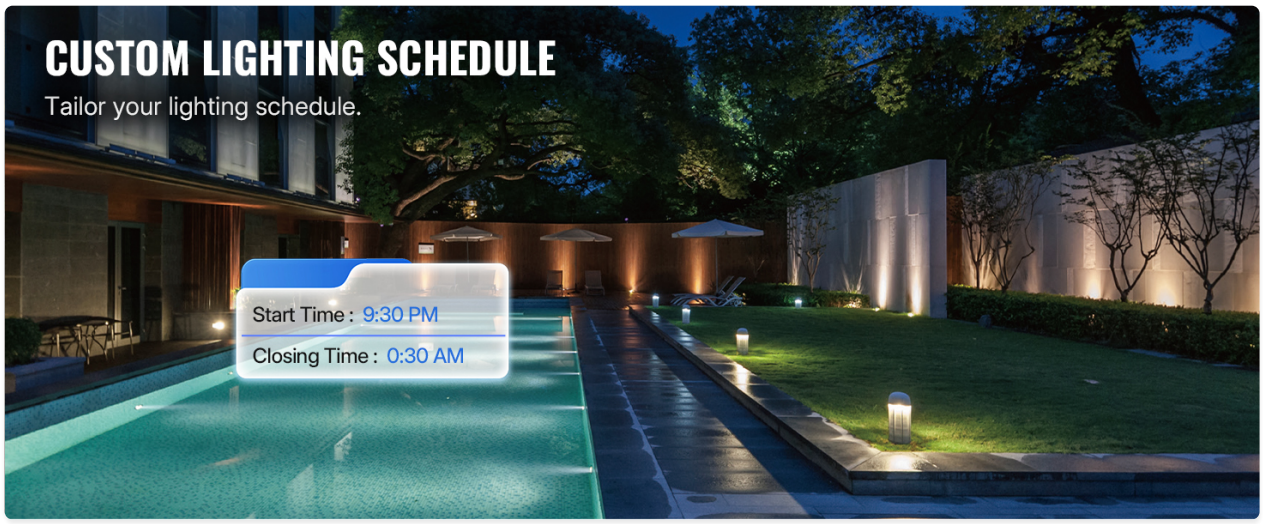

Image: Illustration of Test Mode, used for real-time light sensor testing to ensure optimal transformer placement.

6. Maintenance

- **Cleaning:** Periodically wipe the transformer's exterior with a damp cloth to remove dirt and debris. Do not use abrasive cleaners or immerse in water.
- **Photocell Sensor:** Ensure the photocell sensor remains clean and free from obstructions (e.g., leaves, dirt) to guarantee accurate dusk-to-dawn operation.
- **Connections:** Regularly check all wire connections to ensure they are secure and free from corrosion.
- **Circuit Breaker:** The built-in circuit breaker automatically resets after troubleshooting. If it trips frequently, check for overloaded circuits or short circuits in your lighting system.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Lights do not turn on.	No power to transformer, circuit breaker tripped, faulty wiring, incorrect mode setting, photocell obstructed.	Check power outlet, reset circuit breaker, inspect wiring for damage, verify mode settings, clear photocell sensor.
Lights stay on during the day.	Photocell sensor obstructed or faulty, incorrect mode setting.	Ensure photocell is clear and receiving natural light, switch to Auto or Countdown mode if desired.
Lights flicker or are dim.	Overloaded circuit, loose connections, voltage drop due to long wire runs.	Reduce total wattage, tighten connections, use 14V AC output, or use thicker gauge wire.
Timer/Photocell not working.	Incorrect time setting, photocell not connected or faulty, wrong mode selected.	Set current time correctly, ensure photocell is plugged in and unobstructed, select appropriate mode.

8. Specifications

Image: Detailed view of the transformer's dimensions, power cord specifications (3.3ft, 18AWG/3C), and sensor cord specifications (6ft, 20AWG/2C).

- **Model:** D11LT06
- **Input Voltage:** 120V AC, 60Hz
- **Output Voltage:** 12V AC / 14V AC
- **Max Power Output:** 200W
- **Power Source:** Corded Electric
- **Product Dimensions:** 3.2"D x 5.7"W x 8.9"H (8.2cm D x 14.5cm W x 22.7cm H)
- **Mounting Type:** Wall Mount

- **Certification:** ETL Listed
- **Power Cord:** 3.3ft, SJTW 18AWG/3C, ETL Certified
- **Sensor Cord:** 6ft, 20AWG/2C, ETL Certified

9. Warranty and Support

WILAWELS products are designed for durability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, claims, or technical support, please refer to the warranty card included with your product or contact WILAWELS customer service directly.
Customer Service: Please visit the official WILAWELS website or refer to your product packaging for contact information.