

Lewisia IC008

Lewisia 5W Solar Drip Irrigation System

Model: IC008

INTRODUCTION

The Lewisia 5W Solar Drip Irrigation System (Model IC008) is designed to provide automated watering for up to 30 plants, suitable for gardens, raised beds, patios, lawns, greenhouses, and container plants. This system utilizes a 5W solar panel for power, eliminating the need for external batteries or electrical outlets. It features a built-in timer for customizable watering schedules and includes a run-dry protection mechanism to safeguard the pump.

The system allows for direct irrigation from a water container, offering convenience without requiring a connection to a tap or hose. The solar panel can be installed in two ways: placed on the ground using its metal stand or mounted to a wall, fence, or deck.

WHAT'S IN THE BOX

Before beginning installation, please verify that all components listed below are present in your package:

- 1x Solar Panel
- 1x Timer Unit (Controller)
- 1x Water Pump Filter
- 1x 5M Main Water Pipe
- 1x 30M Water Pipe (for drippers)
- 1x 5M Water Level Sensor
- 30x Tee Connectors
- 30x Drip Emitters (Drippers)
- 1x Outlet Pipe Plug
- 5x Hose Connectors

- 1x Anti-siphon Device
- 2x Circlips
- 4x Screws
- 2x Butterfly Screws
- 1x User Manual (this document)

PACKAGE INCLUDED



Image: All components included in the Lewisia 5W Solar Drip Irrigation System package.

SETUP INSTRUCTIONS

Follow these steps to set up your Lewisia Solar Drip Irrigation System:

1. **Solar Panel Placement:** Place the solar panel in direct sunlight. It can be positioned on the ground using its stand or mounted to a wall/fence. Ensure it receives maximum sun exposure throughout the day.

Solar Power for Indoor and Outdoor Use

NOTE: It's recommended to place the solar panel in direct sunlight



Image: Solar panel placement for optimal sunlight exposure.

- 2. Connect Main Water Pipe to Controller:** Insert the main water pipe into the 'OUT' hole of the controller. Secure it with a circlip if provided, to prevent dislodging due to water pressure.
- 3. Install Anti-siphon Device:** Cut the main water pipe at a suitable point and insert the anti-siphon device. This prevents water from flowing back after the controller turns off.

KNOW MORE ABOUT YOUR DRIP IRRIGATION KIT



PIPE CIRCLIP

Prevent the water pipe mouth from being flushed out due to too much water pressure.



ANTI-SIPHON DEVICE

Prevent the water from flowing after the controller is turned off.



WATER DIVERSION

Cut the main water pipe and use a hose connector to divert the water to the soft water pipe.



Watering from the Bottom of the plant.

Image: Close-up of anti-siphon device and other components.

- 4. Connect Drip Lines:** Cut the main water pipe to the desired lengths. Use tee connectors to branch off smaller drip lines (30M Water Pipe) to each plant. Insert the drip emitters into the soil near the base of each plant.
- 5. Connect Water Pump and Sensor:** Connect the water pump filter to the 'IN' hole on the controller. Place the water pump filter and the water level sensor into your water reservoir (e.g., a bucket or rain barrel). Ensure the water level sensor is submerged and can detect low water levels.
- 6. Connect Solar Panel to Controller:** Connect the solar panel wire to the designated port on the controller.
- 7. Power On:** Press the ON/OFF button on the controller to power on the system. You can then proceed to set the watering schedule.

DIY Your Auto-Irrigation Set



1. Place solar panel in sunlight



2. Connect the solar panel wire, water level sensor, IN & OUT pipe



3. Place the water level sensor & filter into water



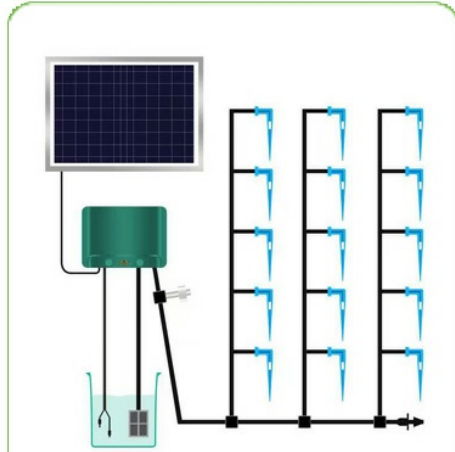
4. Connect the hose and drippers



5. Insert the drippers into the soil



6. Power ON and select the watering mode



Installation Diagram

Note: please connect the anti-siphon device at the outlet tubing

Image: Step-by-step visual guide for setting up the irrigation system.

Lewisia[®] Solar Irrigation Kit

- Timer Setting
- Automatic Watering
- 30 Drippers
- Built-in 2200mAh Battery

Image: Overall system diagram illustrating connections and water flow.

OPERATING INSTRUCTIONS

The Lewisia Solar Drip Irrigation System features a programmable timer with 30 modes of operation, allowing for precise control over watering duration and frequency.

Setting the Timer:

1. **Power On:** Ensure the system is powered on by pressing the ON/OFF button. The digital

display will illuminate.

2. **2. Set Watering Time:** Press the 'Watering Time (min)' button to cycle through the available watering durations (e.g., 1, 2, 3... up to 30 minutes). Press 'Set' to confirm your selection.
3. **3. Set Interval Time:** Press the 'Interval Time (h)' button to select the frequency of watering (e.g., every 3, 6, 12 hours, or every 1, 2, 3... up to 7 days). Press 'Set' to confirm your selection.
4. **4. Start Watering:** Once both watering time and interval are set, the system will begin its automated schedule.

The system offers a total of 300 possible watering combinations (10 interval times x 30 watering times). For example, you can set it to water for 1 minute every 3 hours, or 5 minutes every day.



Image: Timer display and control buttons.

Video Demonstration:

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Video: A demonstration of the Lewisia Watering Kit for Garden Raised Beds, Patios, Lawns, and Greenhouses, showcasing its functionality and ease of use.

MAINTENANCE

- **Water Reservoir Cleaning:** To prevent algae growth and clogging of the input screen, clean your water container every 3-4 days. Using an opaque container can help reduce algae formation.
- **Run Dry Protection:** The system is equipped with an electronic run-dry protection feature. If the water level in your reservoir drops too low, the pump will automatically stop working to prevent damage. Refill the reservoir to resume operation.
- **Solar Panel Cleaning:** Periodically wipe the solar panel with a soft, damp cloth to remove dust and debris, ensuring optimal charging efficiency.
- **Dripper Inspection:** Regularly check drippers for any blockages or damage. Clean or replace as necessary to ensure even water distribution.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump stops working after a few seconds.	Low water level in reservoir; run-dry protection activated.	Refill the water reservoir. Ensure the water level sensor is properly submerged.
Tubing pops off emitters, causing leaks.	Insufficient connection or tubing softened by heat.	Ensure all connections are snug. Consider using additional clamps or zip ties for high-pressure points. Avoid direct sunlight on tubing where possible.
Digital display on controller is not working.	Power issue or internal component failure.	Ensure solar panel is receiving direct sunlight and is properly connected. If the issue persists, contact customer support.
Watering occurs at an inconvenient time of day.	The timer sets intervals from the moment it's programmed, not a specific time of day.	To adjust the watering start time, reset the timer at your desired start time. For example, if you want it to water at 6 AM daily, set the daily interval at 6 AM.
No water flow or weak flow.	Clogged filter, kinked tubing, or insufficient solar charge.	Clean the water pump filter. Check all tubing for kinks or blockages. Ensure the solar panel is clean and in direct sunlight.

SPECIFICATIONS

- **Brand:** Lewisia
- **Model Name:** Lewisia 5W Solar (IC008)
- **Power Source:** Solar Powered (5W Solar Panel)
- **Battery:** Built-in 2200mAh (for continuous operation)
- **Material:** Metal, Plastic
- **Capacity:** Up to 30 Plants
- **Hose Length:** 30 Feet (drip tubing)
- **Item Dimensions:** 11 x 7 x 2.5 inches
- **Item Weight:** 3.8 Pounds
- **Control Type:** Timer (30 watering time options, 10 interval time options)
- **Special Features:** Automatic Watering, Solar Powered, Supports 30 Plants, Timer Function, Weather Resistant, Run Dry Protection
- **Maximum Pressure:** 40 Pound per Square Inch

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product

packaging or the official Lewisia website. Keep your purchase receipt as proof of purchase for any warranty claims.

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