TRJZWA BSV-IC305

TRJZWA Solar Irrigation System User Manual

Model: BSV-IC305

1. Introduction

The TRJZWA Solar Irrigation System is an automatic watering solution designed for gardens, balconies, greenhouses, and potted plants. This system utilizes a split design with a solar panel and an intelligent irrigation water timer, allowing for flexible placement and efficient sunlight absorption. It supports precise watering schedules, rain delay functions, and includes water level detection with automatic alarms to ensure optimal plant care.

2. What's in the Box

Carefully unpack the box and ensure all components are present. If any parts are missing or damaged, please contact customer support.

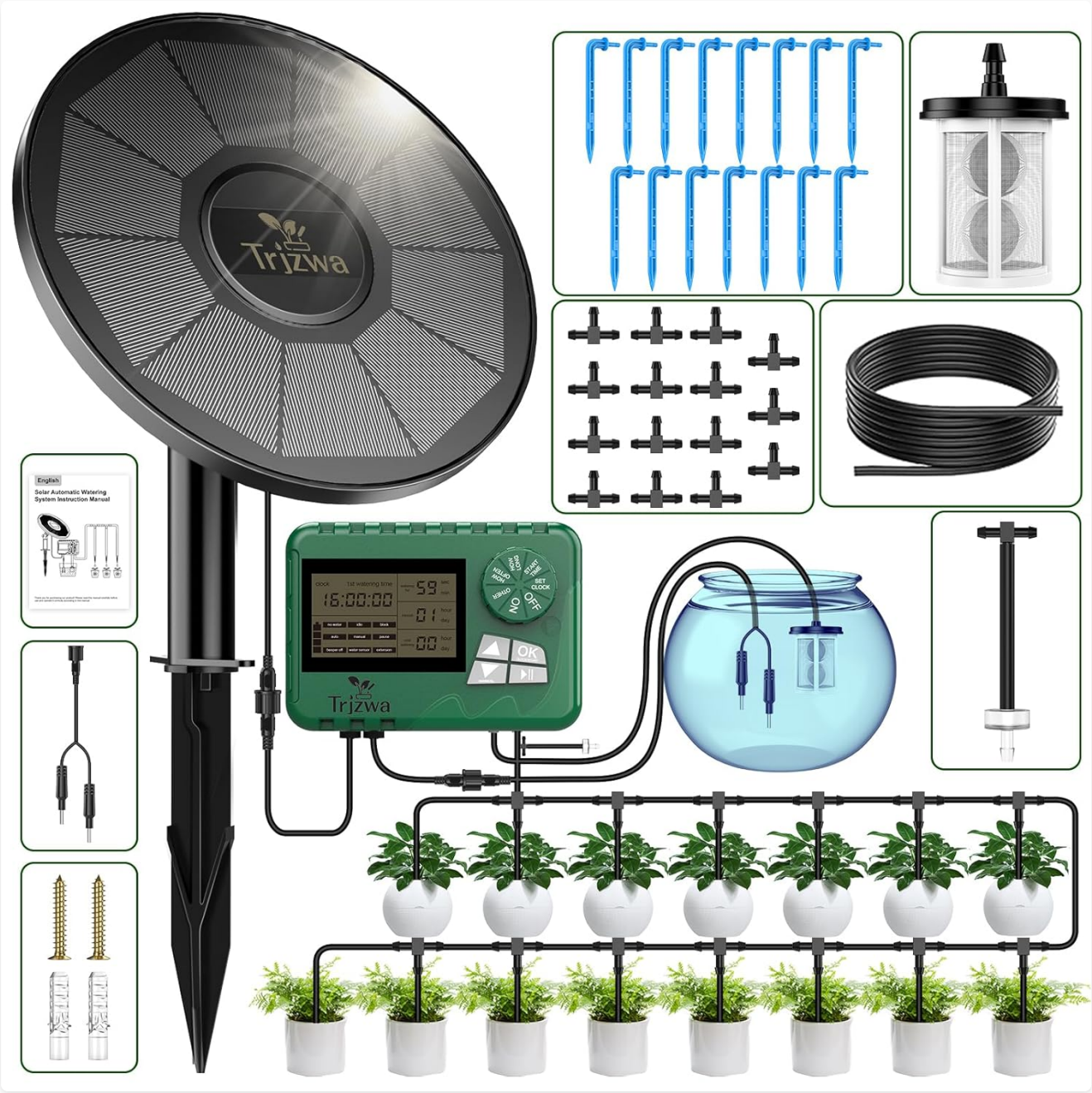


Image: All components of the TRJZWA Solar Irrigation System, including the solar panel, control unit, water hose, drippers, tees, filter, anti-siphon, water level sensor, and mounting hardware.

- 1 x Solar Panel
- 1 x Irrigation Water Timer (Control Unit)
- 1 x Ground Stake
- 15 meters of Water Hose
- 15 x Irrigation Drippers
- 15 x Tee-Head Connectors
- 1 x Anti-Siphon Device
- 1 x Water Level Sensor
- 1 x Filter
- 2 x Screw Kits (for wall mounting)
- 1 x Instruction Manual



Image: A close-up showing the various accessories such as water pipe, drippers, tee-heads, anti-siphon, filter, screws, instruction manual, and water level sensor, alongside a diagram of the control unit's buttons and their functions.

3. Setup and Installation

The TRJZWA Solar Irrigation System offers flexible installation options for both indoor and outdoor use. It can be mounted on a wall or inserted into the ground using the provided stake.

Installation Steps:

1. **Prepare the Water Pipe:** Measure and divide the 15-meter water pipe into desired lengths for each plant. Cut the pipe using scissors or a sharp knife.
2. **Connect Solar Panel:** Connect the cable from the solar panel to the designated port on the irrigation water timer.
3. **Connect Water Level Sensor:** Connect the water level detection line to the appropriate port on the control unit.
4. **Connect Water Inlet:** Connect one end of the main water pipe to the 'IN' port of the control unit.

5. **Connect Water Outlet:** Connect the other end of the main water pipe to the 'OUT' port of the control unit.
6. **Install Filter:** Connect the filter to the water inlet pipe, ensuring it is submerged in your water reservoir.
7. **Install Anti-Siphon:** Connect the anti-siphon device to the outlet pipe to prevent backflow.
8. **Connect Tee-Heads:** Use the tee-head connectors to branch off the main water pipe to individual plants.
9. **Attach Drippers:** Insert the irrigation drippers into the ends of the smaller pipe sections, placing one dripper near the base of each plant.
10. **Position Water Level Sensor:** Place the filter and water level detection line into your water source (e.g., bucket, reservoir).



Image: A visual guide illustrating 10 steps for installing the TRJZWA Solar Irrigation System, from cutting the hose to placing the water level sensor.

Mounting Options:

- **Ground Installation:** Use the provided ground stake to secure the solar panel and control unit in the soil.
- **Wall Installation:** Use the screw kits to mount the solar panel and control unit to a wall or fence.



Image: Depicts two common installation methods for the solar irrigation system: mounted on an exterior wall and staked into the ground among potted plants.

4. Operating Instructions

The intelligent control unit allows for precise customization of watering schedules.



Other accessories include:

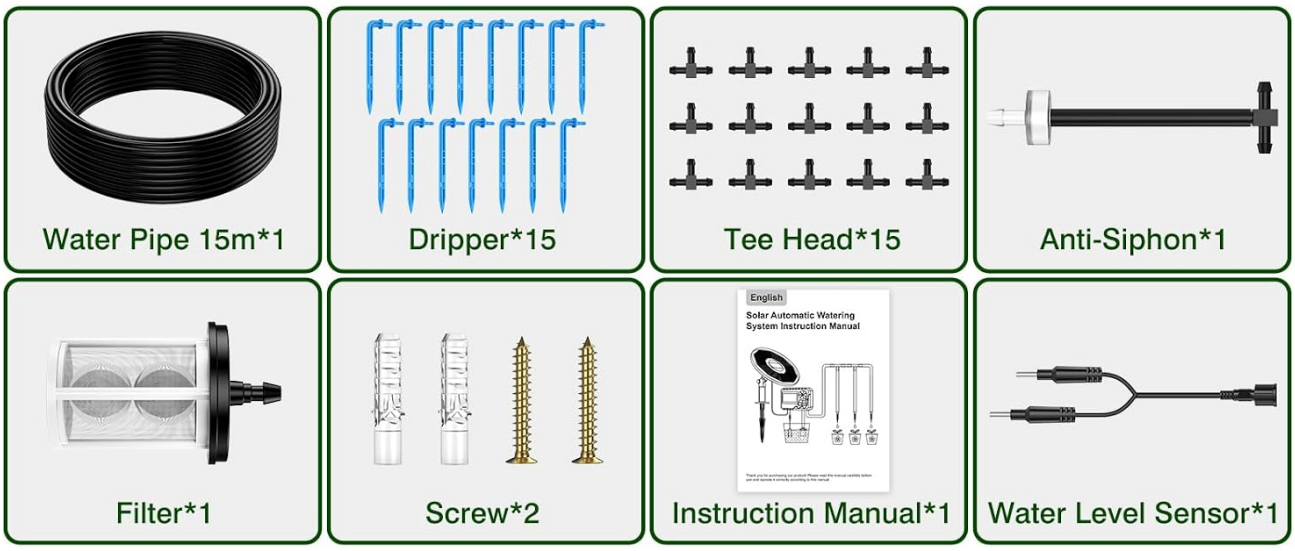


Image: A close-up of the TRJZWA irrigation system's control panel, showing the LED display, adjustment knobs, and buttons labeled for 'OFF', 'ON', 'SET CLOCK', 'START TIME', 'HOW LONG', 'HOW OFTEN', and 'OTHER' settings.

Control Unit Functions:

- **OFF:** Shuts down the system.
- **ON:** Powers on the system.
- **SET CLOCK:** Adjusts the current time.
- **START TIME:** Sets the time for the first watering cycle.
- **HOW LONG:** Adjusts the duration of each watering cycle. Can be set from 1 second to 60 minutes.
- **HOW OFTEN:** Adjusts the interval between watering cycles. Can be set from 1 hour to 7 days.
- **OTHER:** Accesses additional settings.

Setting Watering Schedule:

1. Turn the knob to 'ON' to power on the device.
2. Use the 'SET CLOCK' function to set the current time.

3. Navigate to 'START TIME' to define when the first watering should occur.
4. Adjust 'HOW LONG' to set the watering duration (e.g., 30 seconds, 5 minutes). The water flow rate is approximately 400 ml per minute.
5. Adjust 'HOW OFTEN' to set the frequency (e.g., every 12 hours, every 2 days).
6. Confirm settings using the 'OK' button.

Intelligent Features:

- **Rain Delay:** The system can manually skip watering cycles on rainy days to prevent overwatering.
- **Manual & Auto Mode:** Switch between manual and automatic watering modes as needed.
- **Water Level Detection:** The system monitors the water level in your reservoir.



Image: Illustrates the time adjustment modes for the irrigation system, showing 'How Long' settings from 1s-59s or 1min-59min, and 'How Often' settings from 0hour-23hour or 0day-7day.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your irrigation system.

- **Filter Cleaning:** Periodically check and clean the water filter to prevent clogging and ensure consistent water flow.
- **Dripper Inspection:** Inspect drippers for any blockages or damage. Clean or replace as necessary.
- **Hose Check:** Ensure all hose connections are secure and free from leaks. Check the hose for kinks or damage.
- **Solar Panel Cleaning:** Keep the solar panel clean from dust and debris to maximize sunlight absorption and charging efficiency.
- **Water Source Monitoring:** Regularly check your water reservoir to ensure it has sufficient water, especially during dry periods.



Image: The irrigation system delivering water directly to plant roots, highlighting its water-saving and environmentally friendly design. A filter is visible in the water reservoir.

6. Troubleshooting

If you encounter issues with your TRJZWA Solar Irrigation System, refer to the following common problems and solutions:

- **System Not Watering:**
  - Check water level: Ensure the water reservoir has enough water. The system will alarm if the water level is too low.
  - Check for clogs: Inspect the filter and drippers for any blockages.
  - Pump idling: If the pump is running but no water is flowing, check for airlocks or blockages in the hose.
  - Battery level: Ensure the solar panel is receiving adequate sunlight or the internal battery is charged.
- **Buzzer Alarm / Indicator Light Flashing:**

- This indicates a problem such as low water level, a leaking probe, pump idling, or a clogged system. Address the specific issue identified.

- **Inconsistent Watering:**
  - Verify watering duration and interval settings on the control unit.
  - Ensure all drippers are properly installed and not blocked.

- **Solar Panel Not Charging:**
  - Ensure the solar panel is positioned in direct sunlight and is clean from dirt or obstructions.
  - Check the connection cable between the solar panel and the control unit.



Image: Illustrates the water level alarm state when the reservoir is low and the system's normal operation once water has been replenished.

7. Specifications

Feature	Detail
Model Name	TRJZWA BSV-IC305
Power Source	Solar Powered and Battery Powered
Hose Length	15 Meters
Watering Duration	Adjustable from 1 second to 60 minutes
Watering Interval	Adjustable from 1 hour to 7 days
Water Flow Rate	Up to 400 ml per minute
Supported Plants	Up to 15 potted plants
Package Dimensions	11.42 x 8.31 x 2.44 inches
Item Weight	2.25 Pounds

8. Warranty and Support

Warranty information for the TRJZWA Solar Irrigation System is not available in the provided product data. Please refer to the product packaging, the manufacturer's official website, or contact the seller directly for details regarding warranty coverage and customer support.

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