Landrip DT04

Landrip Automatic Plant Watering System (Model DT04) - Instruction Manual

1. Overview

The Landrip Automatic Plant Watering System is designed to provide quantitative and timed watering for up to 15 potted plants in various indoor environments. This drip irrigation kit ensures your plants receive consistent care, making it ideal for home, office, balcony, or greenhouse use, especially when you are away.

It features an intuitive LCD screen and control knobs for easy programming of watering duration and frequency. The system is engineered for water conservation, using up to 70% less water compared to traditional methods by delivering moisture directly to the plant roots.

Program settings are automatically saved in internal memory and retained even if power is interrupted, ensuring reliable operation.



Image 1.1: The Landrip Automatic Plant Watering System providing care for plants, allowing users to enjoy their time away.

2. Package Contents

Please verify that all the following components are included in your package:

- 1x Main Control Unit with LCD Display
- 1x 10-meter (32.8 feet) Distribution Hose (1/4 inch outer diameter)
- 15x Drippers
- 5x Barb Cross Fittings
- 5x Barb Tee Fittings
- 1x Filter
- 1x USB Cable
- 1x Detachable Hook
- 1x End Cap



Image 2.1: Contents of the Landrip Automatic Plant Watering System package.

3. Product Features

- **Digital Timer Display:** Clear LCD screen for easy viewing of time and settings.
- **Program Memory:** Settings are automatically saved and retained even after power loss.
- **Two Power Modes:** Operates with 4x AA batteries (not included) or via USB cable (included).
- **Customizable Watering:** Adjust watering duration from 1-59 seconds or 1-30 minutes, and frequency from 1-23 hours or 1-30 days.
- **Water Saving:** Drip irrigation targets roots directly, reducing water consumption by up to 70%.
- **Easy Installation:** Simple setup process with included components.
- **Manual Irrigation:** Option for on-demand watering.



Image 3.1: Key features of the Landrip Automatic Plant Watering System.

4. Setup Guide

4.1 Component Assembly

1. **Prepare Tubing:** Cut the 10-meter distribution hose into appropriate lengths for each plant, considering the layout.
2. **Connect Drippers:** Insert a dripper into one end of each cut hose segment.
3. **Assemble Fittings:** Use the Barb Tee and Cross Fittings to create the desired distribution network for your plants. Ensure all connections are secure.
4. **Install Filter:** Attach the filter to the inlet hose that will draw water from your reservoir.
5. **Connect to Main Unit:** Connect the assembled hose network to the "OUT" port of the main control unit. Connect the inlet hose (with filter) to the "IN" port.

4.2 Placement and Power

6. **Water Reservoir:** Place a water reservoir (e.g., a bucket or container) near your plants.
7. **Main Unit Positioning:** Position the main control unit. It can be placed on a flat surface, wall-mounted using the detachable hook, or hung.

8. **Power Connection:** Insert 4x AA batteries into the battery compartment (ensure correct polarity) or connect the USB cable to a 5V 1A USB power adapter (not included) and plug it into a power outlet.

4.3 Important Installation Guidelines

- **Pump Position:** The main control unit (which contains the pump) **must be positioned higher than the water reservoir** to prevent backflow and ensure proper operation.
- **Plant Height:** The plants being watered must be higher than the water outlet pipe from the main unit, but no higher than 3 meters from the water source. This prevents siphoning and ensures efficient water delivery.



Image 4.1: Correct installation guidelines for the Landrip Automatic Plant Watering System.



Image 4.2: Example setup for watering 15 plants.

5. Operating Instructions

5.1 Setting Current Time

1. Turn the dial to the "TIME" position.
2. Use the arrow buttons to adjust the hour and minute.
3. Press "OK" to confirm.

5.2 Programming Watering Duration (HOW LONG)

4. Turn the dial to the "HOW LONG" position.
5. Use the arrow buttons to set the desired watering duration (1-59 seconds or 1-30 minutes).
6. Press "OK" to confirm.

5.3 Programming Watering Frequency (HOW OFTEN)

7. Turn the dial to the "HOW OFTEN" position.
8. Use the arrow buttons to set the desired watering frequency (1-23 hours or 1-30 days).
9. Press "OK" to confirm.

5.4 Setting Start Time (START TIME)

10. Turn the dial to the "START TIME" position.
11. Use the arrow buttons to set the desired time for the first watering cycle to begin.
12. Press "OK" to confirm.

5.5 Automatic Mode (AUTO)

13. After setting the time, duration, frequency, and start time, turn the dial to the "AUTO" position. The system will now operate according to your programmed schedule.

5.6 Manual Watering

- To initiate manual watering, press the "M" button. The system will water for the duration set in "HOW LONG". Press "M" again to stop manual watering.



Image 5.1: Control unit with LCD display and programming dial.

6. Maintenance

6.1 Cleaning the Filter

Regularly check and clean the water filter to prevent blockages and ensure consistent water flow.

Disconnect the inlet hose, remove the filter, rinse it under running water, and reassemble.

6.2 Checking for Blockages

Periodically inspect the drippers and tubing for any blockages caused by debris or mineral buildup. Clean or replace affected components as necessary.

6.3 Winter Storage

If storing the system for an extended period, especially in cold conditions, drain all water from the pump and tubing to prevent freezing damage. Store the unit in a dry, temperate location.

7. Troubleshooting

- **No Water Flow:**
  - Check if the water reservoir has sufficient water.
  - Ensure the filter is clean and not blocked.
  - Verify all hose connections are secure and not kinked.
  - Confirm the main unit is powered (batteries or USB).
  - Ensure the pump is positioned higher than the water reservoir.
- **Leaks:**
  - Tighten all hose connections and fittings.
  - Inspect tubing and drippers for cracks or damage. Replace any faulty components.
- **Incorrect Watering Schedule:**
  - Review your programmed settings for watering duration, frequency, and start time.
  - Ensure the dial is set to "AUTO" mode for automatic operation.
- **System Not Turning On:**
  - Check battery orientation and ensure batteries are not depleted.
  - If using USB power, verify the cable and adapter are functioning correctly and connected to a live power source.

8. Specifications

Brand	Landrip
Model / Part Number	DT04
Style	Drip Irrigation
Number of Items	1 (Kit)
Set Name	Landrip Drip Irrigation Kit for 15 Plants
Included Components	Automatic pot irrigator (main unit), tubing, drippers, fittings, filter, USB cable, hook, end cap
Power Source	4x AA Batteries (not included) or USB 5V 1A

Watering Duration	1-59 seconds / 1-30 minutes
Watering Frequency	1-23 hours / 1-30 days

9. Safety Information

- This irrigation system is designed for **indoor use only**. It is not waterproof and should not be exposed to outdoor elements or rain.
- Always ensure the main control unit (pump) is positioned **higher than the water reservoir** to prevent siphoning and potential water damage.
- Keep the system out of reach of children and pets.
- Use only the specified power sources (4x AA batteries or 5V 1A USB adapter).
- Do not attempt to disassemble or repair the main unit yourself. Contact customer support if issues arise.

10. Warranty and Support

Landrip products are manufactured to high-quality standards. For warranty information, technical support, or any questions regarding your product, please refer to the contact information provided with your purchase or visit the official Landrip website. Please retain your proof of purchase for warranty claims.