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Model: Intelligent Automatic Watering Device

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1. INTRODUCTION

The ERICAT Intelligent Automatic Watering Device is designed to simplify plant care by providing automated, timed irrigation. This system helps conserve water resources, improves irrigation efficiency, and reduces manual labor, ensuring your plants receive consistent watering even when you are away. It is ideal for various applications including lawns, gardens, flower pots, and hanging baskets.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your automatic watering system to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

2.1. Components Included

Before beginning installation, please ensure all components are present:

- Intelligent Watering Device Host
- USB Cable
- Water Pipe (15 meters)
- Adapter
- Instruction Manual

- Tee Connectors (15 or 20, depending on model)
- Drip Arrows (15 or 20, depending on model)
- Filters (2)
- Screwdriver



Figure 2.1: All accessories included with the watering system, showing the main device, tubing, connectors, drip arrows, power adapter, USB cable, and screwdriver.

2.2. Key Features

- **Automatic Watering:** Solves daily plant care needs and ensures plants are watered on time, promoting healthier growth.
- **Efficient Water-Saving Design:** Combines precise timing and pump action to deliver the correct amount of water to up to 20 potted plants, reducing water waste.
- **Dual Pump System:** Features intelligent independent dual pumps that can operate separately without interference, allowing for different watering schedules for various plant groups.
- **Easy Programming with LCD Display:** A large LCD screen provides clear real-time clock, interval, and water amount information. Intelligent program memory retains settings even when the device is powered off.
- **Versatile Application:** Suitable for water areas, lawns, gardens, flower pots, and hanging baskets,

especially useful for urban terraces and balconies without direct faucet access.



Figure 2.2: The main watering device connected for drip irrigation, showing the LED display and a plant being watered.

3. SETUP INSTRUCTIONS

Follow these steps to set up your ERICAT Intelligent Automatic Watering Device:

1. **Prepare the Water Source:** Place your water reservoir (e.g., a bucket or tank) on the ground. It is generally recommended that the water source be placed lower than the device, and the drip arrows should be higher than the water level in the reservoir to ensure proper siphoning and water flow.
2. **Connect the Water Pipe:** Cut the provided water pipe to the desired lengths to reach your plants from the device. Connect one end of the main pipe to the water inlet on the device.
3. **Install Filters:** Insert the filters into the ends of the pipes that will be submerged in the water source to prevent debris from entering the system.
4. **Distribute Drip Arrows:** Use the Tee connectors to branch off the main water pipe to individual plants. Attach a drip arrow to the end of each branch and insert it into the soil of your potted plants. Ensure the drip arrows are securely placed in the soil near the plant roots.
5. **Power Connection:** Connect the USB cable to the device and then to the provided adapter. Plug the

adapter into a standard electrical outlet. The device can also be powered by other 5V USB sources or batteries (not included) for flexible placement.

6. **Initial Test:** After connecting everything, perform a manual test to check for any leaks and ensure water flows correctly to all drip arrows.



Figure 3.1: A visual representation of the watering system's connection diagram, illustrating how the device connects to a water source and distributes water to multiple plants via tubing and drip arrows.

4. OPERATING INSTRUCTIONS

The device features an intuitive LCD display and control buttons for easy programming.

4.1. Setting Watering Time and Interval

1. **Power On:** Press the 'ON' button to turn on the device. The LCD screen will illuminate.
2. **Access Settings:** Press the 'SET' button to enter programming mode. You will typically see options to set watering duration and interval.
3. **Set Watering Duration:** Use the 'UP' and 'DOWN' arrow buttons to adjust the watering time (duration) for each cycle. This can usually be set from 0 to 999 seconds. Press 'SET' again to confirm and move

to the next setting.

4. **Set Interval Time:** Use the 'UP' and 'DOWN' arrow buttons to adjust the interval between watering cycles. This can usually be set from 0 to 999 hours. Press 'SET' again to confirm.
5. **Dual Pump Control:** If your model has dual pumps (Pump A and Pump B), you can set independent watering times and intervals for each pump by selecting the respective pump on the display (if applicable) and following the same steps.
6. **Save Settings:** The device typically saves settings automatically after a few seconds of inactivity in programming mode, or after cycling through all settings. The intelligent program memory ensures settings are retained even after power loss.



Figure 4.1: The device's control panel and LCD display, indicating where watering time and interval time settings are shown.

4.2. Manual Watering

Some models may offer a manual watering option. Refer to the on-screen prompts or specific button functions for initiating a manual watering cycle outside of the programmed schedule.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your watering system:

- **Clean Filters:** Periodically check and clean the filters in the water source to prevent clogging and ensure uninterrupted water flow.
- **Inspect Tubing:** Regularly inspect the water pipes and drip arrows for any kinks, blockages, or damage. Ensure all connections are secure.
- **Water Source:** Keep the water reservoir clean and free of algae or debris that could contaminate the system. Refill the water source as needed.
- **Winterization (if applicable):** If using the system outdoors in freezing temperatures, drain all water from the pipes and store the device indoors to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your watering system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow	Empty water reservoir, clogged filter, kinked tubing, pump malfunction.	Refill water reservoir, clean filter, straighten tubing, check power connection.
Inconsistent watering	Air in the system, uneven drip arrow placement, low water level.	Bleed air from lines, ensure drip arrows are at similar heights, maintain adequate water level.
Device not powering on	Power adapter not connected, faulty USB cable, power outage.	Check power connections, try a different USB cable or power source.
Settings not saving	Incorrect programming sequence, temporary glitch.	Ensure you complete the setting process for each parameter. Restart the device and try again.

7. SPECIFICATIONS

Detailed technical specifications for the ERICAT Intelligent Automatic Watering Device:

Feature	Detail
Rated Voltage	5V
Rated Current	720mA
Power	3.6W
Adapter	DC5A 1A DC002 3.5/1.3
Flow Rate	0.3-0.8 L/min
Working Temperature	0-50°C (32-122°F)
Watering Time Range	0-999 Seconds (Optional)
Interval Time Range	0-999 Hours (Optional)
Product Dimensions	9.7 cm * 8.5 cm * 8.5 cm (3.82 in * 3.35 in * 3.35 in)
Brand	ERICAT
Special Feature	Automatic Watering, Dual Pump



Figure 7.1: The physical dimensions of the watering device, measuring 97mm in length, 85mm in width, and 85mm in height.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the product packaging or contact ERICAT customer service directly. Keep your purchase receipt as proof of purchase.