

HCT-311

Generic HCT-311 Digital Hose Irrigation Water Timer User Manual

Model: HCT-311

1. INTRODUCTION

The Generic HCT-311 Digital Hose Irrigation Water Timer is designed to automate garden watering, providing flexible scheduling options for lawns, beds, and potted plants. This device features an easy-to-read LCD display, manual watering capabilities, rain delay, and a child lock function. It is built for outdoor use with a rugged, leak-resistant construction and standard 3/4" garden tap compatibility.



Image 1.1: HCT-311 Digital Hose Irrigation Water Timer in use, highlighting key features.

2. PRODUCT OVERVIEW

Familiarize yourself with the components and display elements of your HCT-311 water timer.



Image 2.1: HCT-311 LCD Display and Control Buttons.

Key Display Elements:

- **Current Time:** Displays the current time in a 24-hour format.
- **Start Time:** Indicates the programmed start time for watering.
- **How Long:** Shows the watering duration (1 second to 300 minutes).
- **How Often:** Displays the watering frequency (1-23 hours or 1-15 days).
- **Next Irrigation:** Automatically prompts the time for the next watering cycle.
- **Battery Power Indicator:** Blinks when power is low.
- **Watering Indications:** A water-drop icon blinks during irrigation.

Control Buttons:

- **ESC/OFF (Rain Delay/Child Lock):** Used to exit current settings, turn off the timer, activate Rain Delay, or activate Child Lock.
- **MANUAL:** Activates manual watering mode.
- **SETUP/OK:** Used to enter setup mode and confirm settings.
- **+/- Buttons:** Used to adjust time and system settings.

3. BATTERY INSTALLATION

The HCT-311 timer requires 2x AA alkaline batteries (not included) for operation. Ensure batteries are installed correctly for proper function.

1. Locate the battery compartment on the back of the timer.
2. Open the battery compartment cover.
3. Insert two new AA alkaline batteries, observing the correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment cover.

The timer's screen will automatically turn off without operation within 30 seconds to conserve power, contributing to a battery life of over 6 months.

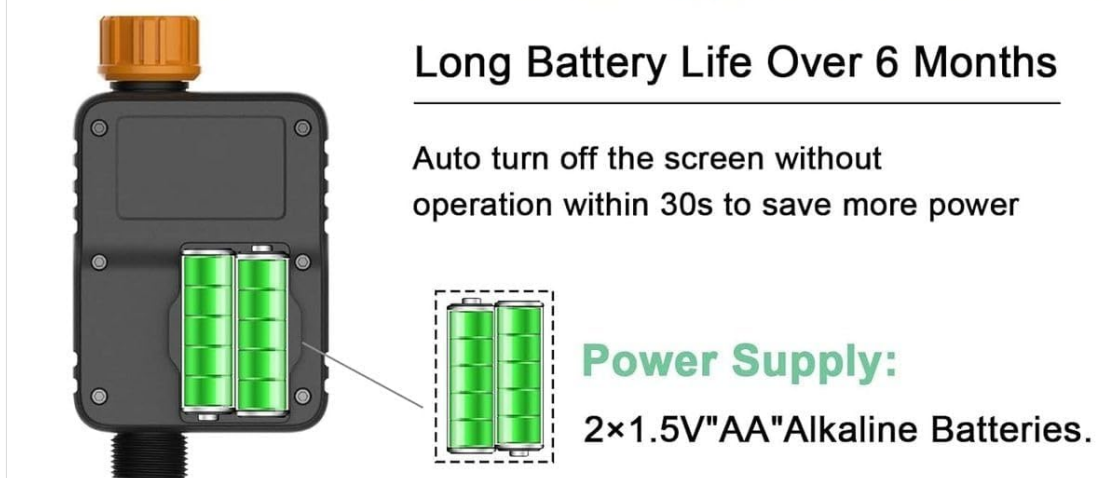


Image 3.1: Battery installation and power supply details.

4. INSTALLATION

The HCT-311 timer is designed for easy connection to standard outdoor taps and garden hoses.

1. Ensure the tap is turned off before installation.
2. Screw the timer's 3/4" female inlet onto your outdoor garden tap. Hand-tighten only to prevent damage.
3. Connect your garden hose to the timer's 3/4" male outlet.
4. Turn on the tap. The timer is now ready for use.

Tip: For best longevity, avoid prolonged direct sun/heat; mount in shade where possible.

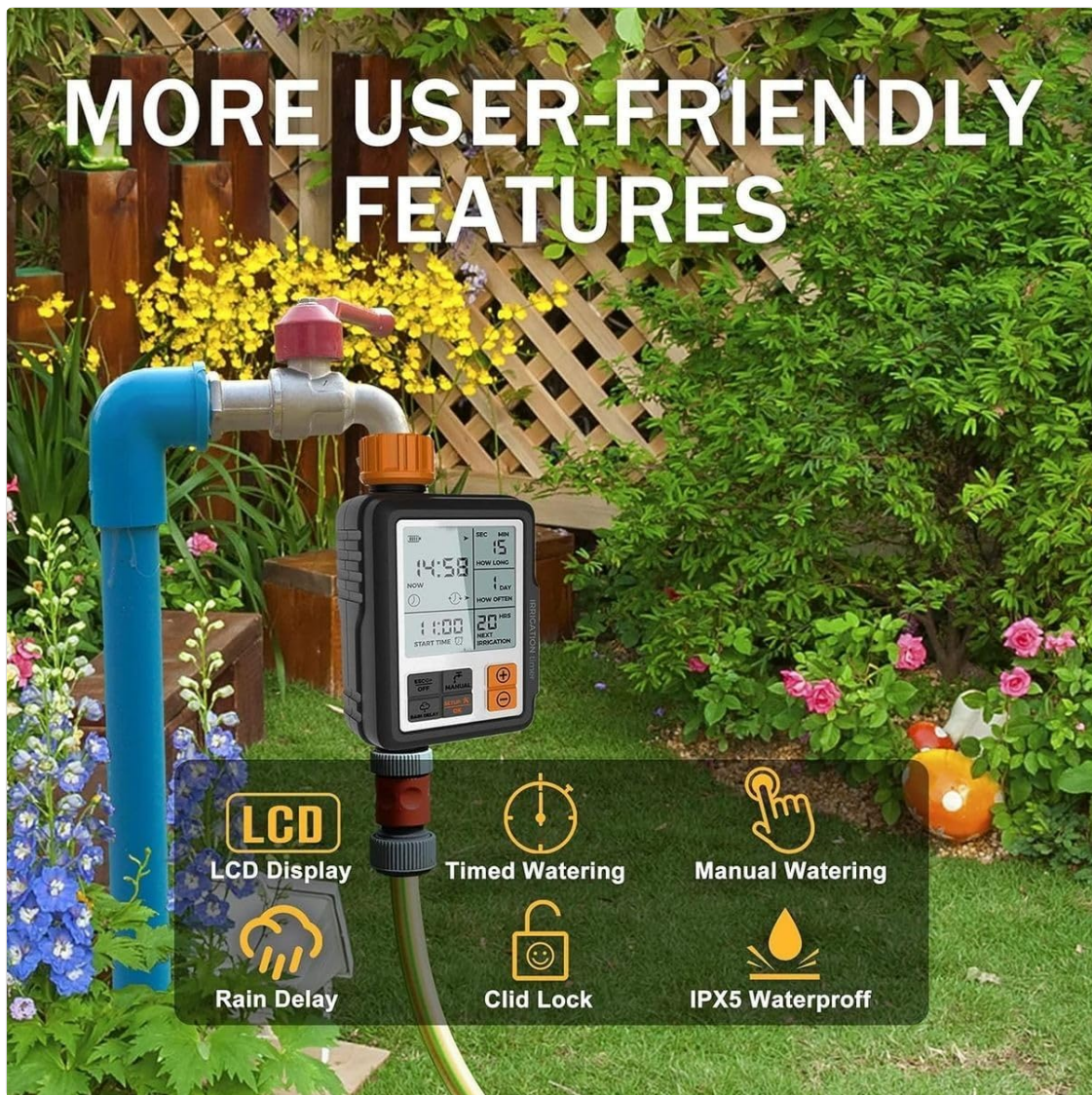


Image 4.1: Timer connected to a tap and hose.

5. INITIAL SETUP: SETTING CURRENT TIME

Before programming watering schedules, set the current time on your timer.

1. Press the **SETUP/OK** button to enter setup mode. The 'Current Time' display will begin to flash.
2. Use the **+/-** buttons to adjust the hour.
3. Press **SETUP/OK** to confirm the hour and move to minutes.
4. Use the **+/-** buttons to adjust the minutes.
5. Press **SETUP/OK** to confirm the minutes and save the current time. The display will stop flashing.

6. PROGRAMMING WATERING SCHEDULE

The HCT-311 allows for flexible automatic scheduling. You can set the watering duration, frequency, and a specific start time.



Image 6.1: Flexible Irrigation Programming parameters.

Setting Start Time:

1. From the main screen, press **SETUP/OK** until 'Start Time' flashes.
2. Use the +/- buttons to set your desired watering start hour (24-hour clock).
3. Press **SETUP/OK** to confirm the hour and move to minutes.
4. Use the +/- buttons to set the minutes.
5. Press **SETUP/OK** to confirm and save the start time.

Setting Watering Duration ('How Long'):

1. From the main screen, press **SETUP/OK** until 'How Long' flashes.
2. Use the +/- buttons to set the watering duration from 1 second to 300 minutes.
3. Press **SETUP/OK** to confirm and save the duration.

Setting Watering Frequency ('How Often'):

1. From the main screen, press **SETUP/OK** until 'How Often' flashes.
2. Use the +/- buttons to set the watering frequency from every 1-23 hours or every 1-15 days.
3. Press **SETUP/OK** to confirm and save the frequency.

Once all settings are confirmed, the timer will automatically follow the programmed schedule.

7. MANUAL WATERING

The manual watering function allows you to water immediately without altering your saved program. You can set a manual watering duration from 1 second to 240 minutes.



Image 7.1: Activating Manual Watering.

1. From the main screen, **long press the MANUAL button for 3 seconds** to activate manual watering. The display will show 'MANUAL' and a default duration.
2. Use the +/- buttons to adjust the desired manual watering duration (1 second to 240 minutes).
3. Press **SETUP/OK** to start manual watering. The timer will begin watering for the set duration.
4. To stop manual watering prematurely, **long press the MANUAL button for 3 seconds** again, or press **ESC/OFF**.

8. RAIN DELAY FUNCTION

The Rain Delay function allows you to temporarily pause your watering schedule to prevent over-watering after rainfall. This will skip the next scheduled watering cycle.

1. From the main screen, press the **ESC/OFF** button once. The 'Rain Delay' icon will appear, and the delay duration will flash.

2. Use the +/- buttons to select the desired delay period (e.g., 24 hours, 48 hours, etc.).
3. Press **SETUP/OK** to confirm the rain delay. The timer will pause for the selected period and resume the schedule afterward.
4. To cancel Rain Delay, press **ESC/OFF** again until the 'Rain Delay' icon disappears.

9. CHILD LOCK FUNCTION

The Child Lock function prevents accidental changes to your programmed settings by locking the control buttons.

1. From the main screen, **long press the ESC/OFF button for 3 seconds**. A lock icon will appear on the display, indicating that the buttons are locked.
2. To unlock the buttons, **long press the ESC/OFF button for 3 seconds** again. The lock icon will disappear.

10. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your HCT-311 water timer.

- **Cleaning:** Periodically clean the timer's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Filter Maintenance:** The timer includes an internal fine filter to prevent blockages. Regularly check and clean this filter to ensure proper water flow.
- **Battery Replacement:** Replace batteries when the low battery indicator blinks on the LCD. Always use new AA alkaline batteries.
- **Winter Storage:** Before freezing temperatures, disconnect the timer from the tap and hose. Remove batteries and store the timer indoors in a dry, frost-free location.
- **Environmental Conditions:** While rated IPX5 water-resistant, avoid prolonged direct exposure to intense sunlight or extreme heat. Mounting in a shaded area is recommended.

11. TROUBLESHOOTING

If you encounter issues with your HCT-311 water timer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Timer does not turn on or LCD is blank.	Dead or incorrectly installed batteries.	Replace with new AA alkaline batteries, ensuring correct polarity.

Problem	Possible Cause	Solution
Water does not flow at scheduled time.	<ul style="list-style-type: none"> • Tap is off. • Low battery. • Incorrect programming. • Rain Delay is active. • Water pressure is too low. • Filter is clogged. 	<ul style="list-style-type: none"> • Ensure tap is fully open. • Replace batteries. • Review and correct watering schedule. • Check if Rain Delay is active and cancel if needed. • Ensure water pressure is within 0.05–0.8 MPa (7–116 psi). • Clean the internal filter.
Timer is leaking.	<ul style="list-style-type: none"> • Loose connection. • Damaged O-ring/seal. 	<ul style="list-style-type: none"> • Ensure connections to tap and hose are hand-tight. • Check O-ring inside the inlet for damage and replace if necessary.
Buttons are unresponsive.	Child Lock is active.	Long press the ESC/OFF button for 3 seconds to deactivate Child Lock.

12. SPECIFICATIONS

- **Model:** HCT-311
- **Dimensions:** 82 × 56 × 160 mm
- **Waterproof Rating:** IPX5
- **Working Pressure:** 0.05–0.8 MPa (7–116 psi)
- **Operating Temperature:** 1–45 °C
- **Tap Connection:** 3/4" female thread
- **Outlet Connection:** 3/4" male thread
- **Power:** 2× AA alkaline batteries (not included)
- **Material:** Reinforced Nylon, Plastic
- **Color:** Black and Orange

13. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your proof of purchase for any warranty claims.

