

Aifro WaterEco

User Manual

Symbols:



CAUTION: Symbol is intended to alert the user to important instructions or conditions that could seriously affect irrigation effectiveness or device operation.



NOTE: Symbol is intended to alert the user to important operating functionality, installation or maintenance instructions.



Repeat: Symbol indicates that a repetition of previous steps or may be required in order to continue or complete the device programming process.



WARNING: Symbol alerts the user to the presence of electricity or electromagnetic energy which may constitute a risk of electric shock, radiation exposure or other hazard.

Safety Information



WARNING: Date and time are retained by a lithium battery which is to be disposed of in accordance with local regulations.



WARNING: You must use special precautions when zone wires (also known as station or solenoid wires) are located adjacent to or share a conduit with other wires, such as wires used for landscape lighting, other "low voltage" systems or other "high voltage" power. Be sure to separate and insulate all conductors carefully taking care not to damage wire insulation during installation. An electrical "short"(contact) between the zone wires and another source of power can damage the device and create a fire hazard.



NOTE: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



Disposal of Electronic waste

In compliance with European Directive 2002/96/CE and EURONORM EN50419:2005, this device must not be thrown away with household garbage. This device must be the object of an appropriate, selective removal procedure in order to recuperate it.

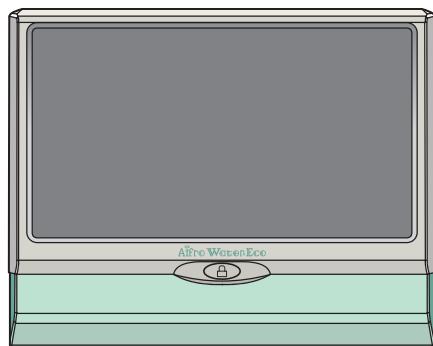
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Check Box Contents

- a.** Aifro WaterEco
- b.** Quick Start
- c.** Power Adapter
- d.** Temperature Sensor
- e.** Mounting Screws

a.



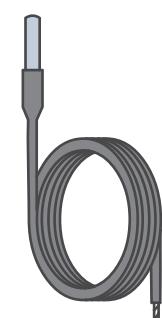
b.



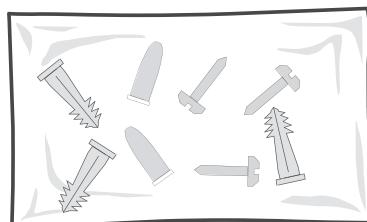
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d.



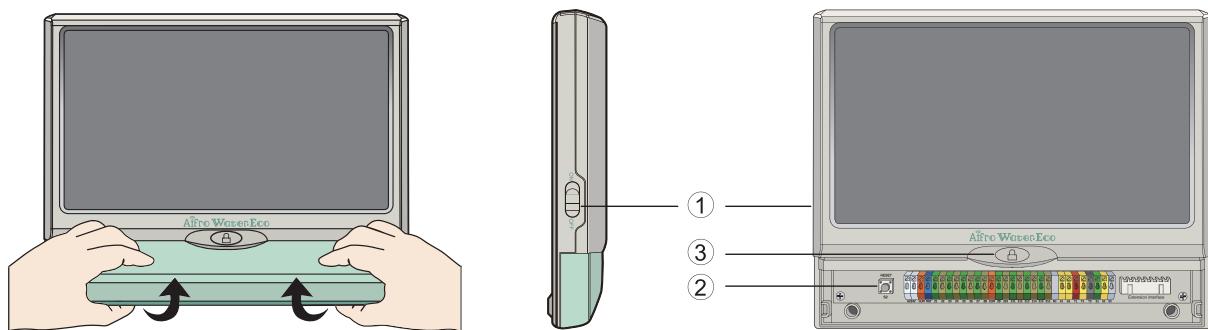
e.



Introduction

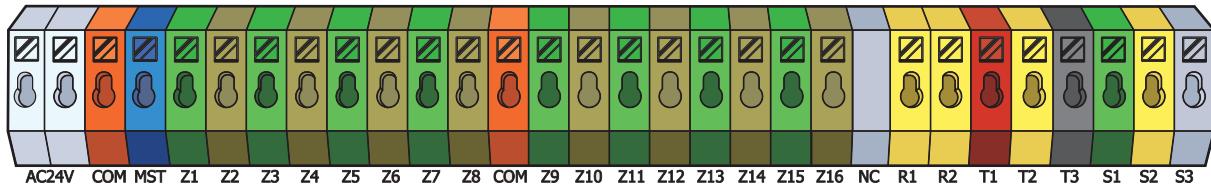
Aifro WaterEco Features

Aifro WaterEco is a smart garden sprinkler system with a 7-inch super big touch screen. It will be automatically connected to the remote server after system booting, so the users can manage remotely anywhere around the world. The iOS/Android app can be accessed through Aifro Cloud within 5 seconds to control watering anywhere around the world. It can intelligently adjust the duration of each watering according to the snatched weather data from the Internet. Through rain sensors which can induce whether it will rain and rainfall, Aifro WaterEco will decide whether to stop watering. Besides, it has other functions such as winter dormancy. Aifro WaterEco is a scientific and effective green household water saving system, which can effectively guarantee safe and human-based garden management, and improves the overall taste and profile of your garden, even also a reflection of your intelligent and avant-grade lifestyle.



1. ON/OFF: Push it up/Push it down to turn on/turn off the power. It is located on the left side of the screen.
2. Reset: Hold the "Reset" button for about 5 seconds. Loosen when hearing three beeps to restore Aifro WaterEco to the factory settings.
3. Lock/Unlock: Press the button to turn off/turn on the screen. When Aifro WaterEco is not operated within several seconds, the screen will be off to save power. If you want to resume the operation, please press the button and input the password. When you finish using Aifro WaterEco, you can also press the button to turn off the screen to save power.

Introduction



Installation

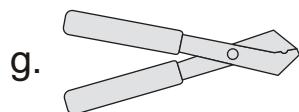
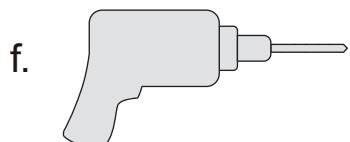
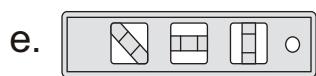
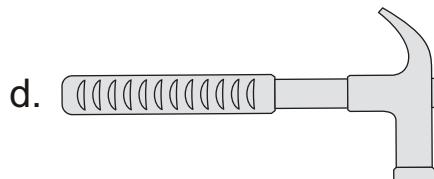
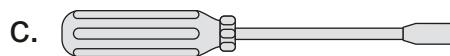
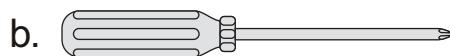
When installing Aifro WaterEco for the first time, it is recommended that you complete the following steps in order.

1. Check box contents
2. Gather installation tools (See below)
3. Select a location
4. Mount Aifro WaterEco
5. Connect the power adapter
6. Wiring connection

Gather Installation Tools

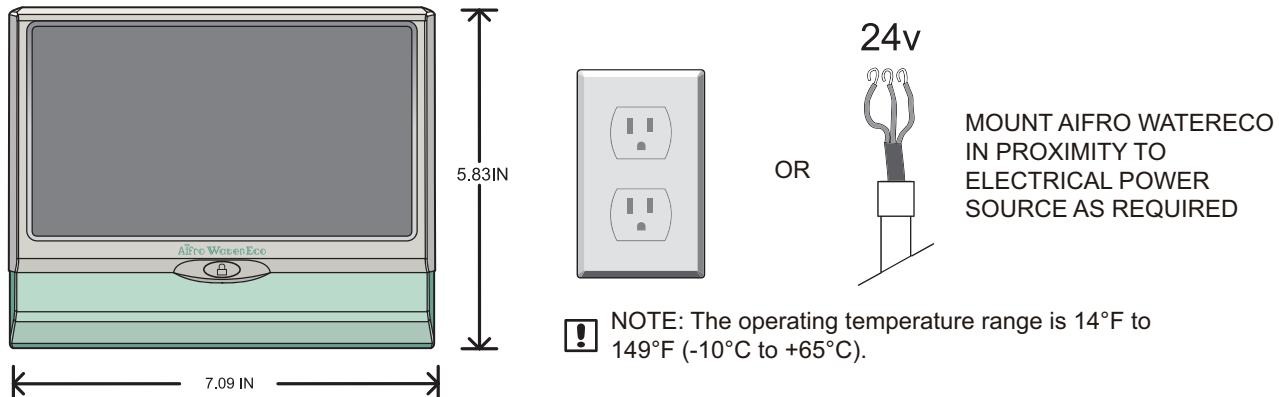
Before beginning the installation, gather the following tools and materials:

- | | |
|---|---|
| a. Marking pencil | f. Drill and drill bit
(for #6 screws) |
| b. Phillips screwdriver
(#1, #2, #3 tip) | g. Wire Stripper |
| c. Flathead screwdriver | h. Mounting Screws
(included) |
| d. Hammer | i. Wall Anchors
(if needed) |
| e. Level | |



Installation

Select a Location



NOTE: Please make sure Aifro WaterEco is not exposed to rain and direct sunlight.

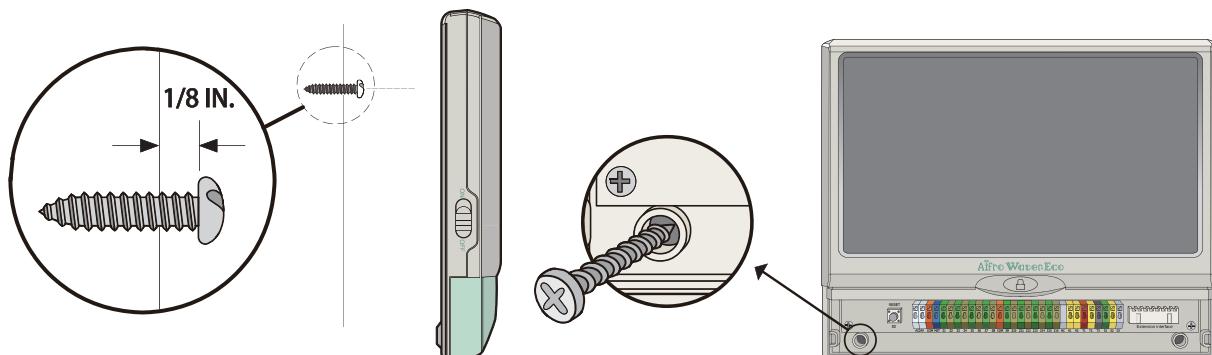
Mount Aifro WaterEco

Method of hanging on the brick wall:

1. Measure the position, punch holes with a 6mm drill, insert the expansion plug, planish with the hammer and fix the attached screws with the cross-shaped screwdriver.
2. Align the back of Aifro WaterEco on the screws and hang it on the wall, record the hole location on the lower-left and lower-right corner with the pencil. Remove Aifro WaterEco, drill holes on the recorded locations, insert the expansion plug and planish.
3. Hang Aifro WaterEco again, fix the screws into the lower-left and lower-right corner with the cross-shaped screwdriver.

Method of hanging on the wooden wall:

1. Measure the position, planish with the hammer and fix the attached screws with the cross-shaped screwdriver.
2. Align the back of Aifro WaterEco on the screws and hang it on the wall, record the hole location on the lower-left and lower-right corner with the pencil.
3. Hang Aifro WaterEco again, fix the screws into the lower-left and lower-right corner with the cross-shaped screwdriver.



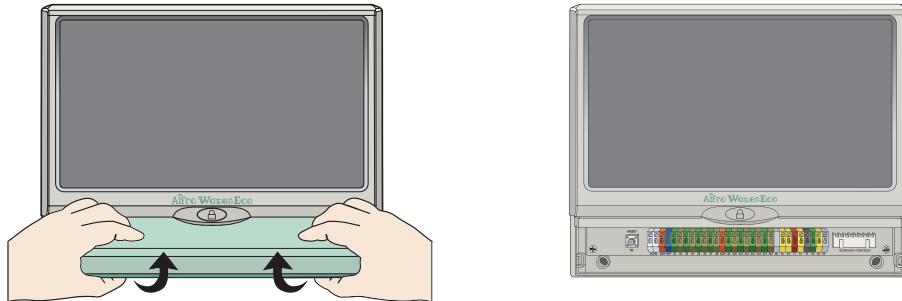
Installation

Connect the Power Adapter

⚠️ WARNING: DO NOT plug in the power adapter or connect external power until you have completed and checked all wiring connections.

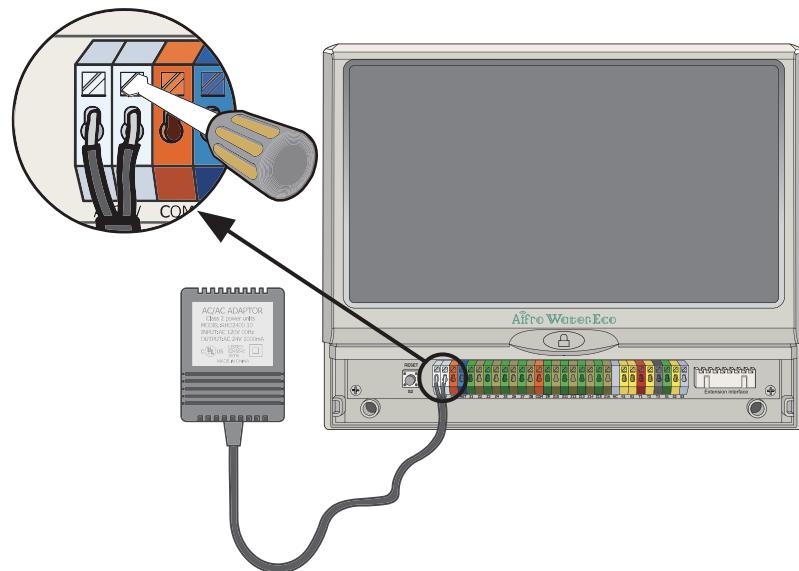
⚠️ WARNING: All electrical connections and wiring runs must comply with local building codes. Some building codes require that only a licensed or certified electrician can make the power connections. Please check with your local building code for guidance. Only professional personnel shall install the device.

(1) Open the green waterproof cover under the screen.



(2) Connect the 24V AC power adapter to the terminals.

NOTE: A 24V AC power adapter is necessary. An adapter of other models may damage Aifro WaterEco.



Installation

Wiring Connection

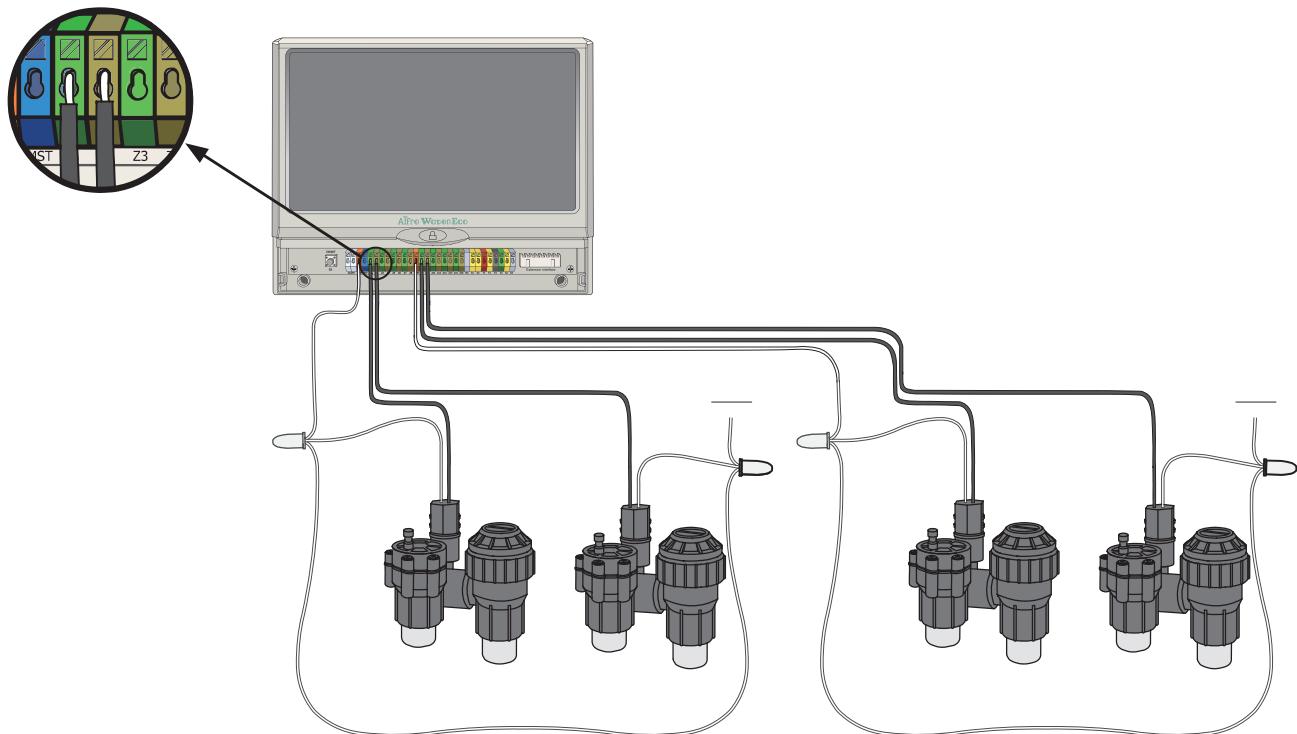
Connect the zone wires for each station and for a (optional) Master Zone or Rain Sensor.

Connect Zones



CAUTION: Do not route the zone wires through the same opening as the power wiring.

Connect one end of the zone wires to the terminals of Z1 to Z16 and then connect the other end to the "COM" terminal.

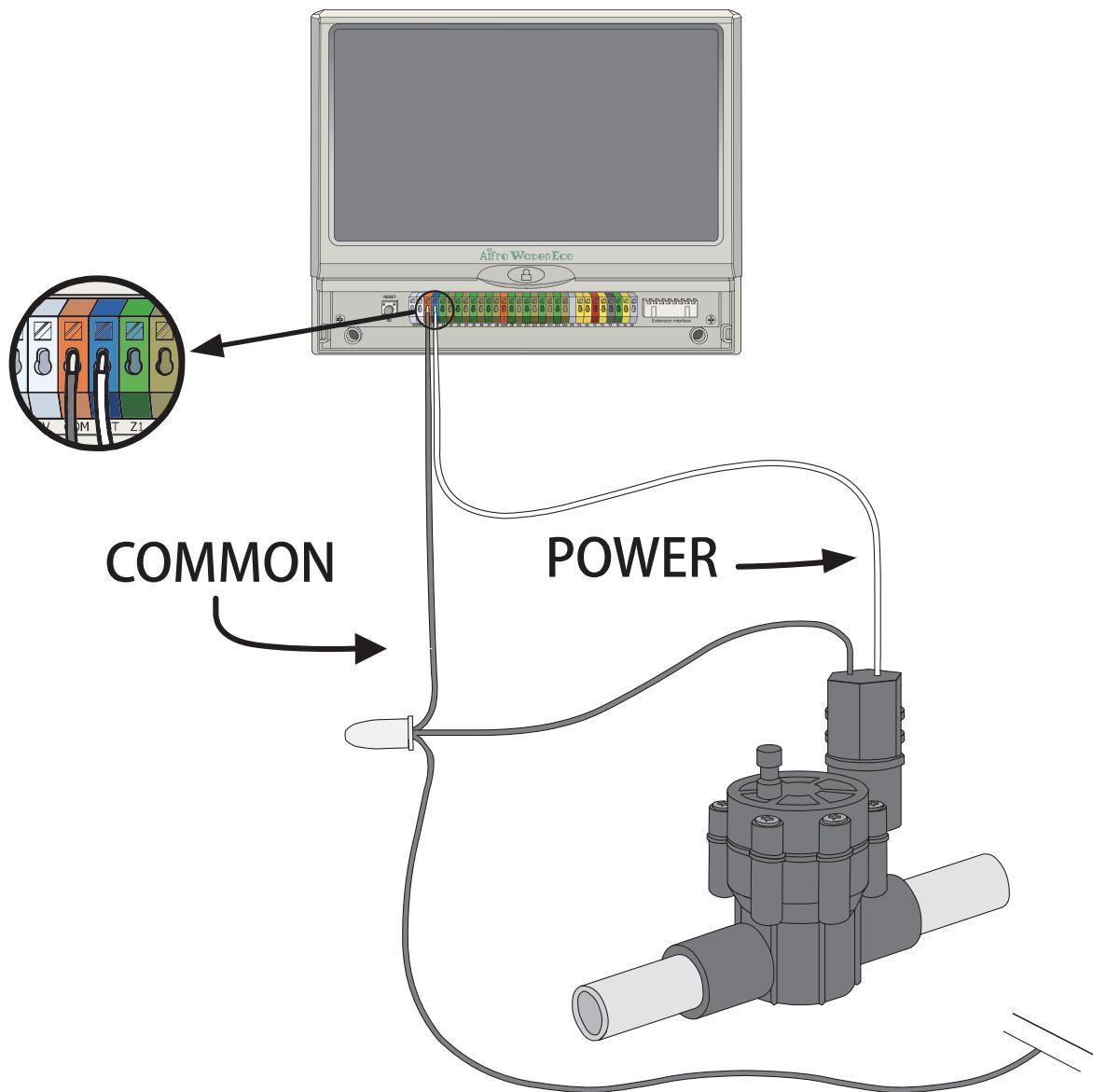


Installation

Connect the Master Zone

Connect an optional Master Zone to Aifro WaterEco

Connect one end of the zone wire to the "MST" terminal and then connect the other end to the "COM" terminal.

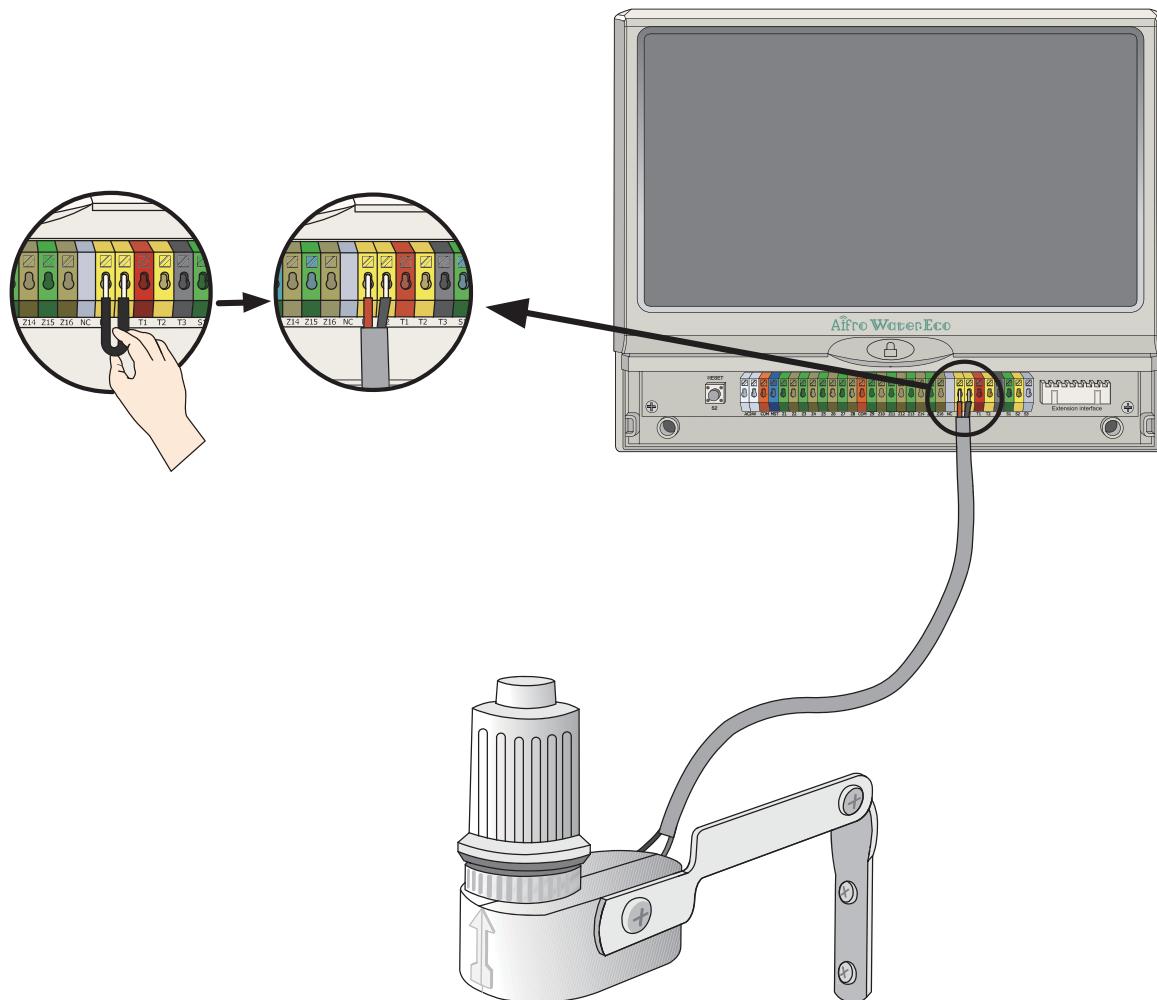


Installation

Connect an Optional Rain Sensor (Wired or Wireless)

Connect an optional rain sensor to Aifro WaterEco

NOTE: Aifro WaterEco is not compatible with a Normally Open rain sensor. It is designed for use with a Normally Closed rain sensor.

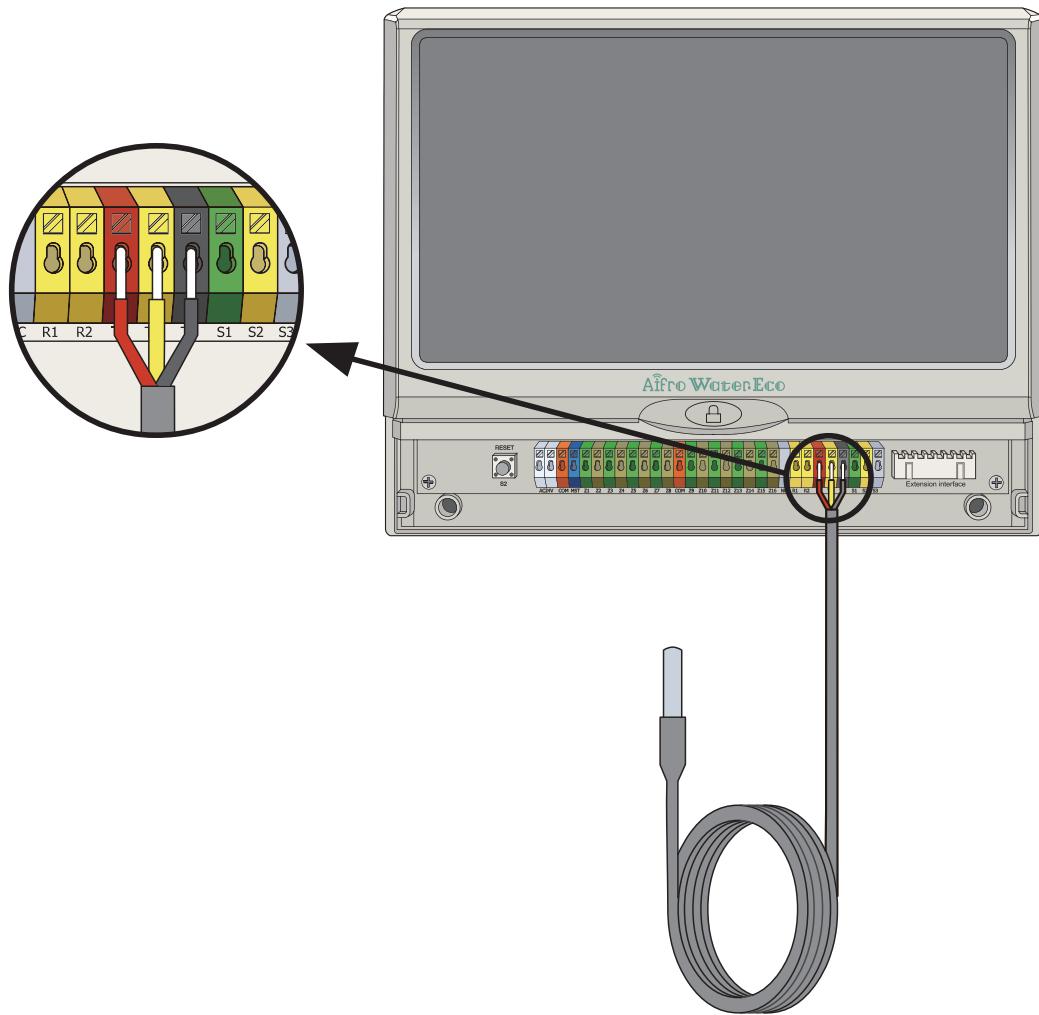


Installation

Connect the Temperature Sensor

Connect the temperature sensor to the terminals of T1 (red), T2 (yellow) and T3 (black) by color.

NOTE: Please connect wires strictly by color. Mismatched connection may damage the sensor.



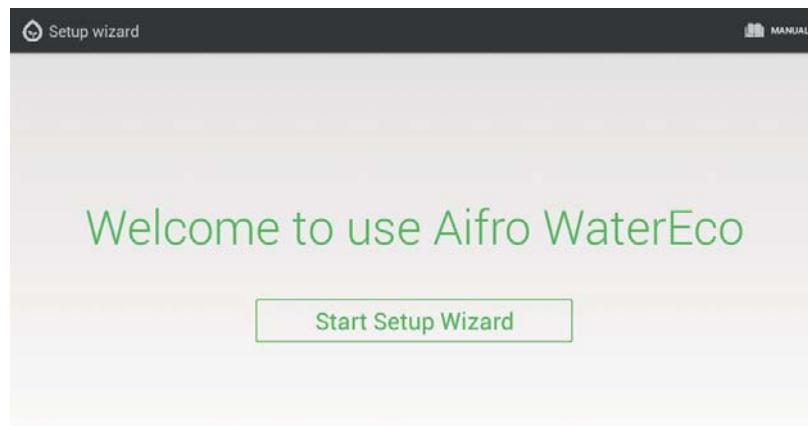
Reserved terminals of S1, S2, S3

Currently, the terminals of S1, S2 and S3 are not active. Please do not connect wires onto them.

Operation

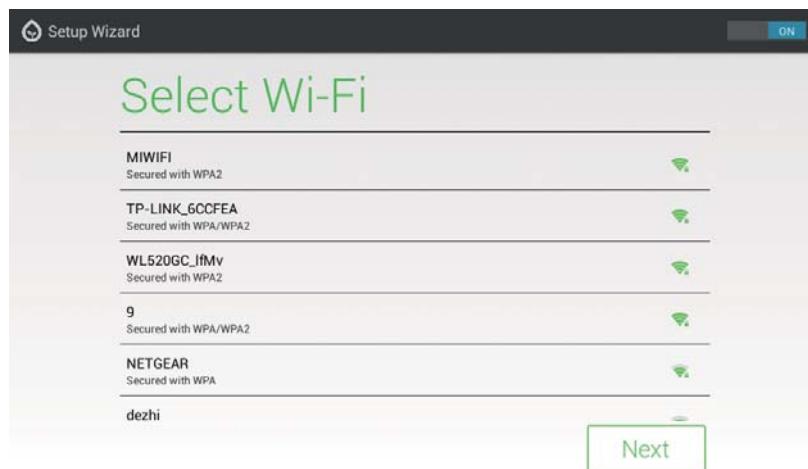
Setup Wizard

When using Aifro WaterEco for the first time, you need to make some settings.



After tapping the "Start Setup Wizard" button, select a proper Wi-Fi, input the correct password and tap the "Connect" button.

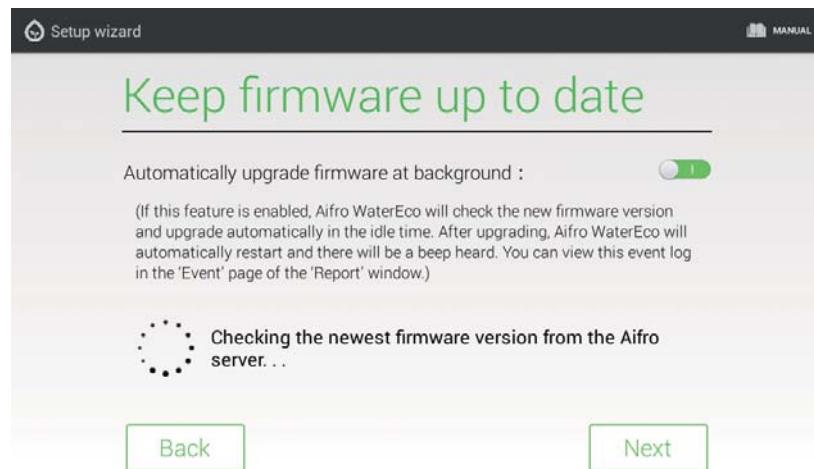
Note: You can also tap the "Next" button directly to skip this step.



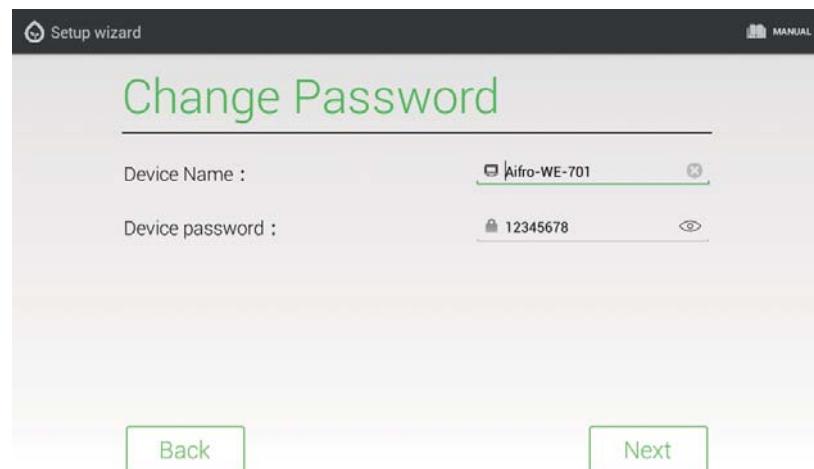
Check if your firmware is the latest version. If yes, you can tap the "Next" button to continue the setup. If there is a new version, you can select to upgrade the firmware directly. During the upgrading process, you can not tap the "Next" button to continue the setup.

Operation

Note: You can also check the option "Automatically upgrade firmware at background" to upgrade the firmware automatically at background in the idle time when there is a new version.

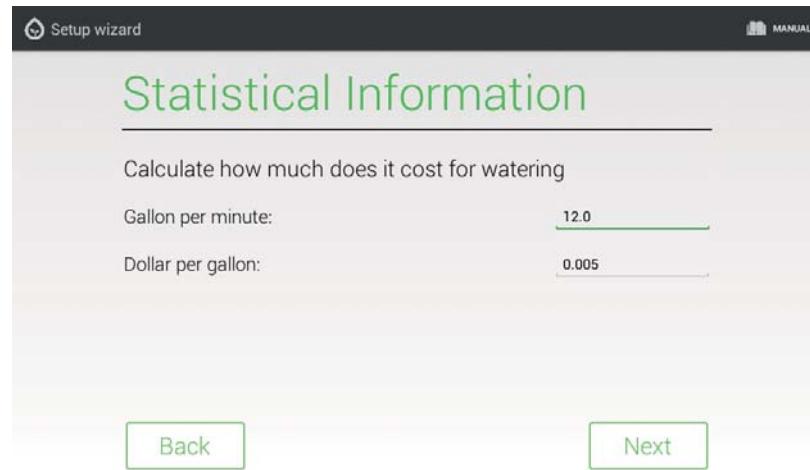


After the connection, you can change your password for managing Aifro WaterEco and modify the device name. The default device password is 12345678.

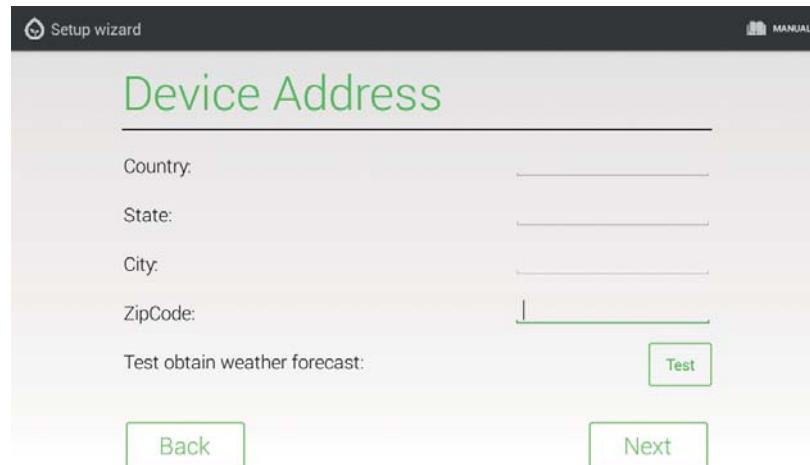


Set the statistical information. You can define the number of gallon per minute and dollar cost per gallon.

Operation

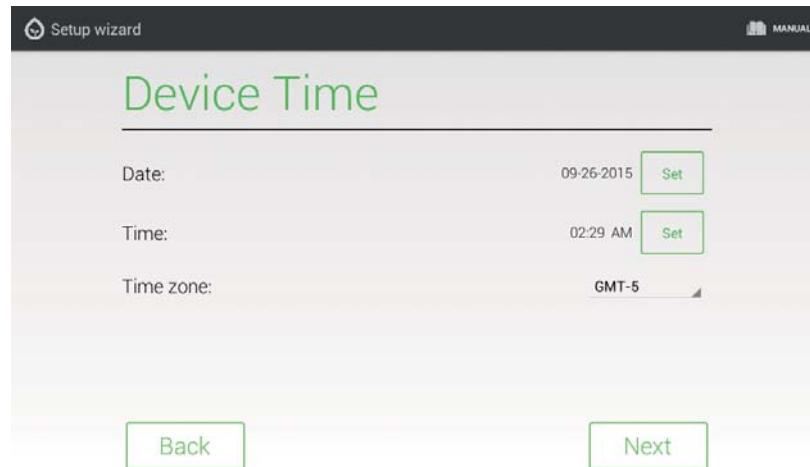


Input the information about country, state, city and zip code to obtain accurate weather forecast.

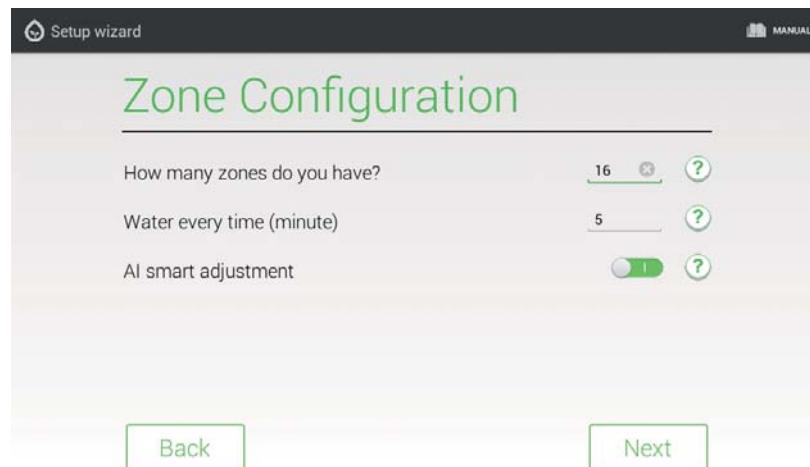


Set the date, time and time zone.

Operation

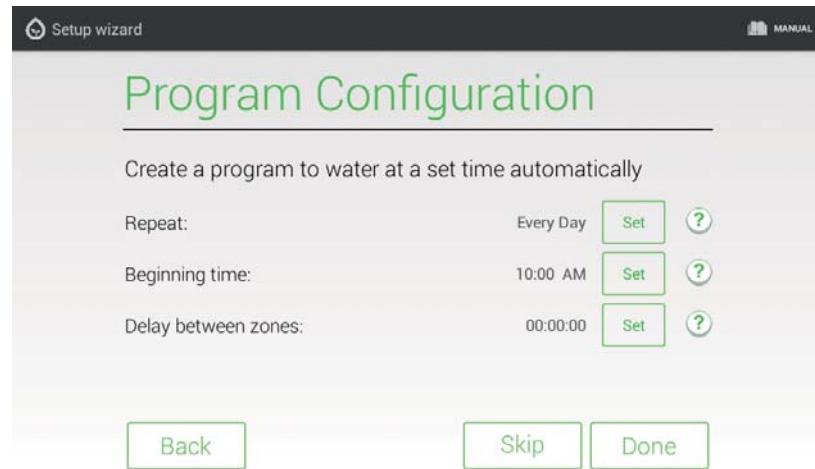


Set the zone configuration. You can select to define how many zones you have, duration of watering and whether to enable AI smart adjustment. You can tap the "?" button to get detailed information.



Set the program configuration. You can select to define the repeat frequency, beginning time and delay between zones. You can tap the "?" button to get detailed information.

Operation



After finishing the above settings, please tap the "Done" button to finish the setup wizard. Then it will jump to the main interface. Enjoy intelligent and automatic watering now!

Operation

Several Watering Methods

There are four watering methods:

Manually water one zone

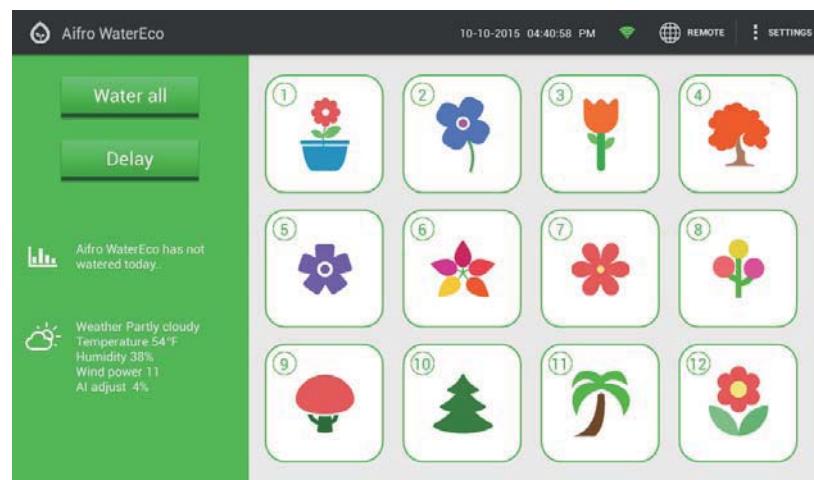
Manually water all zones

Manually water multiple zones

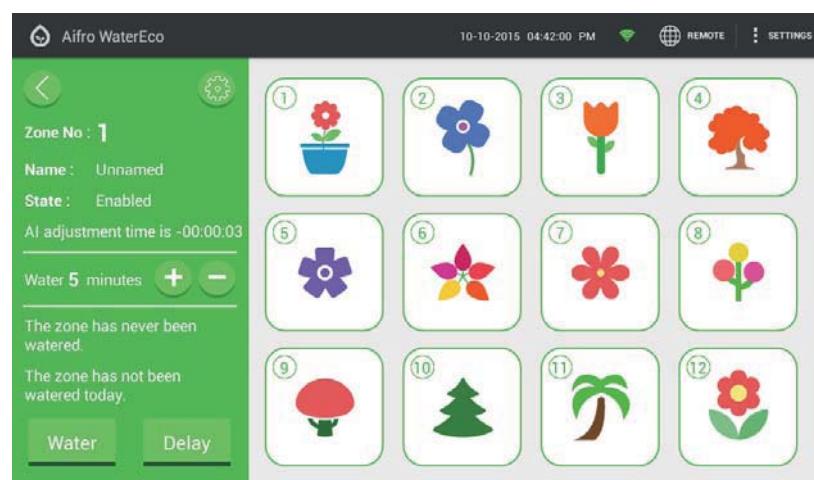
Create a program to water at a set time

Manually water one zone

1. Open Aifro WaterEco to enter the main interface.



2. Tap any zone you want to water.



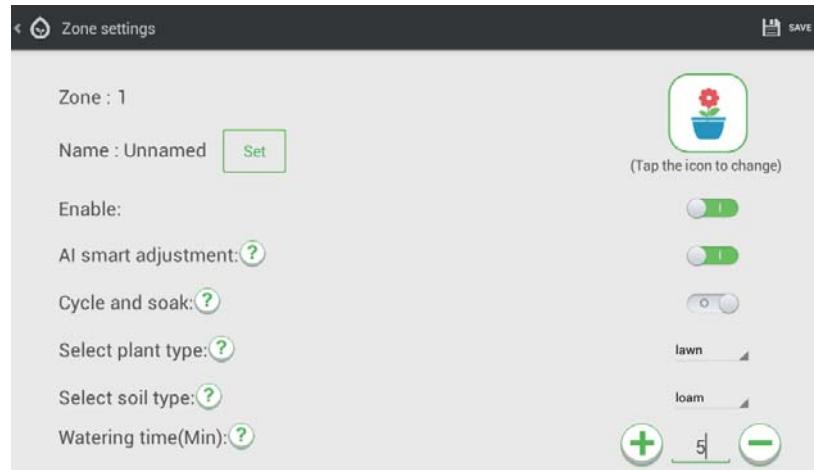
Operation

- Set the duration of watering by tapping the plus/minus sign and tap the "Water" button.
Then tap "OK" to start watering.

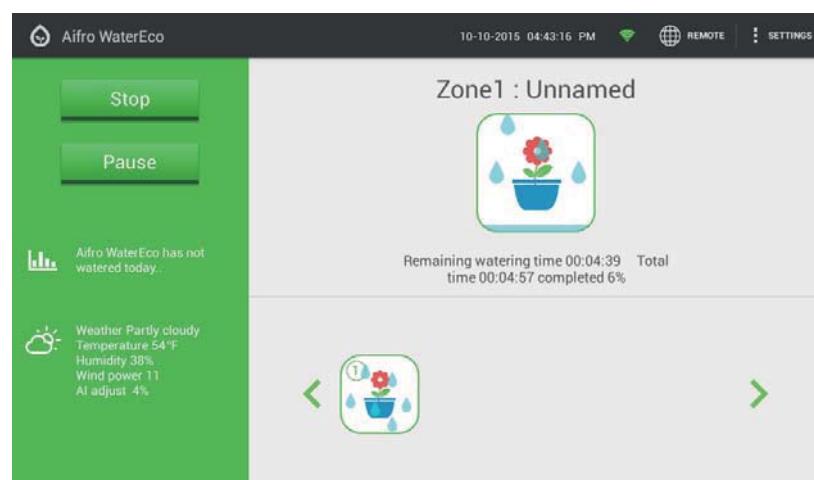
Note:



- You can tap to set the zone name, change the zone icon, enable/disable AI smart adjustment, enable/disable "Cycle and Soak", select the plant type, select the soil type and set the regular duration of watering.
- If you don't want to water at once, tap the "Delay" button and set the delay time, such as 5 minutes later, 10 minutes later, 1 hour later, etc.



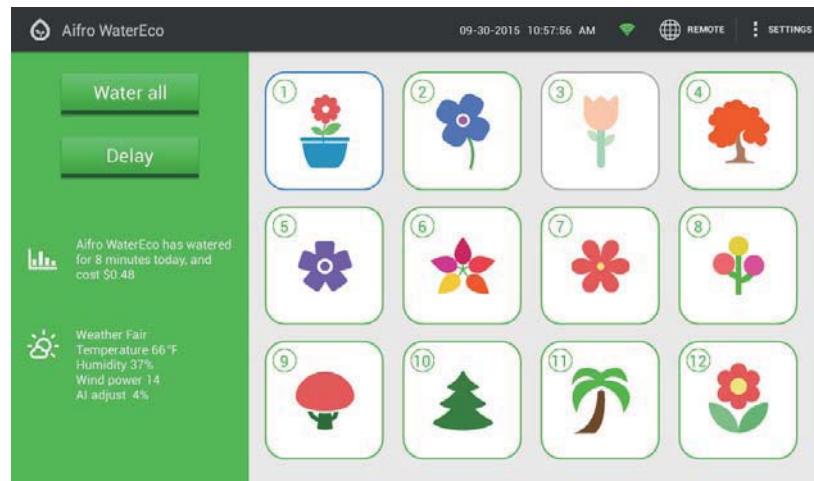
- The watering starts.



Operation

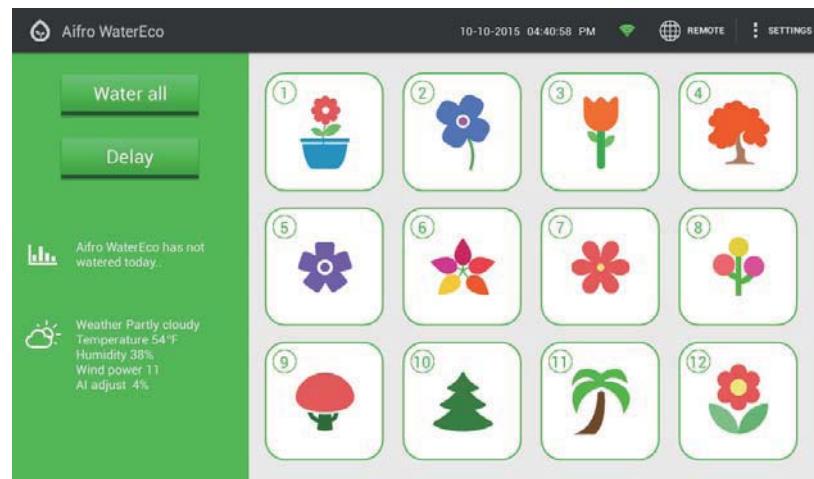
During the watering process, you can tap the "Stop" or "Pause" button to stop or suspend the watering anytime.

5. The watering is finished. It will go back to the main interface and the frame color of the watered zone will turn blue.



Manually water all zones

1. Open Aifro WaterEco to enter the main interface.



2. Tap the "Water all" button and tap "OK" to start watering all zones.

Note:

1. Zones will be watered one by one, not watered simultaneously. The default duration of watering of every zone is 5 minutes, and you can adjust the value by tapping the zone before watering.
2. If you don't want to water at once, tap the "Delay" button and set the delay time, such as 5 minutes later, 10 minutes later, 1 hour later, etc.



During the watering process, you can tap the "Stop" or "Pause" button to stop or suspend the watering anytime.

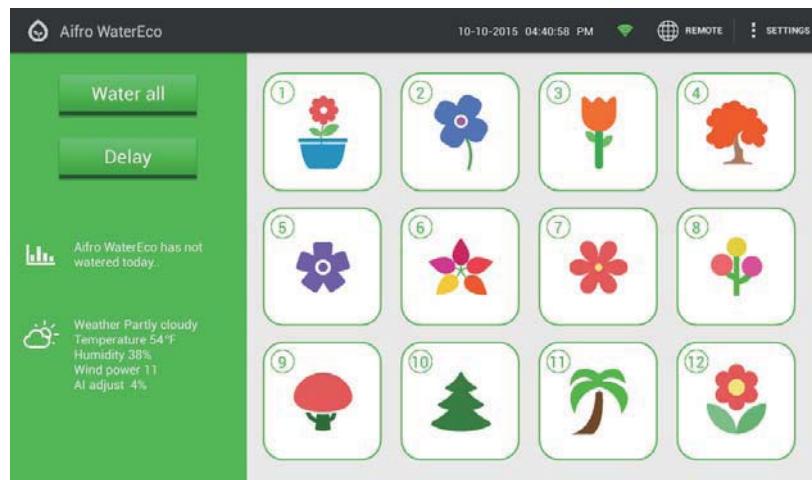
3. The watering is finished. It will go back to the main interface and the frame color of all zones will turn blue.



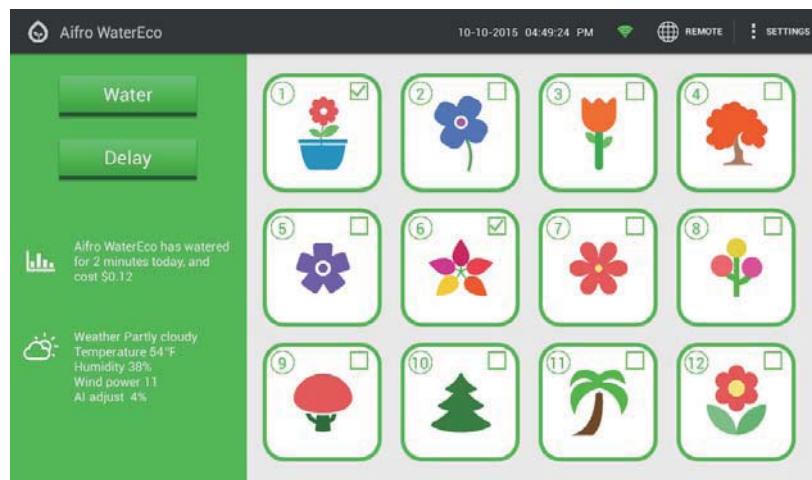
Operation

Manually water multiple zones

1. Open Aifro WaterEco to enter the main interface.



2. Hold any zone for a few seconds, and then you can select multiple zones to water.

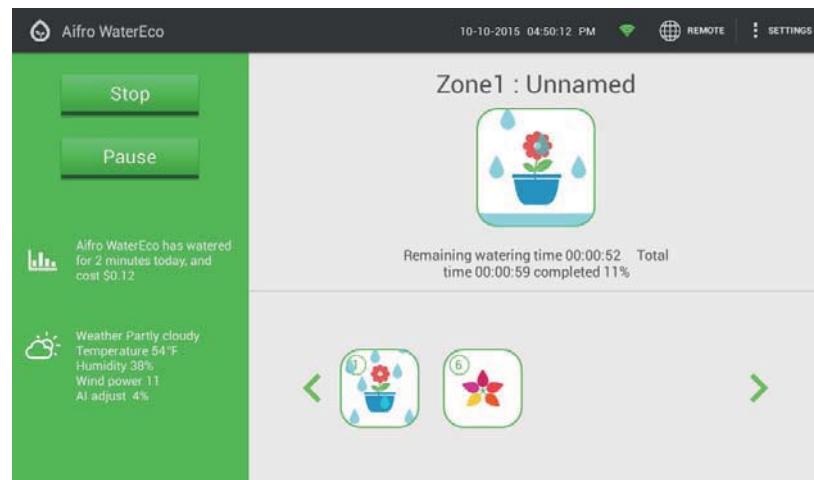


Operation

3. Tap the "Water" button, and tap "OK" to start watering the selected zones.

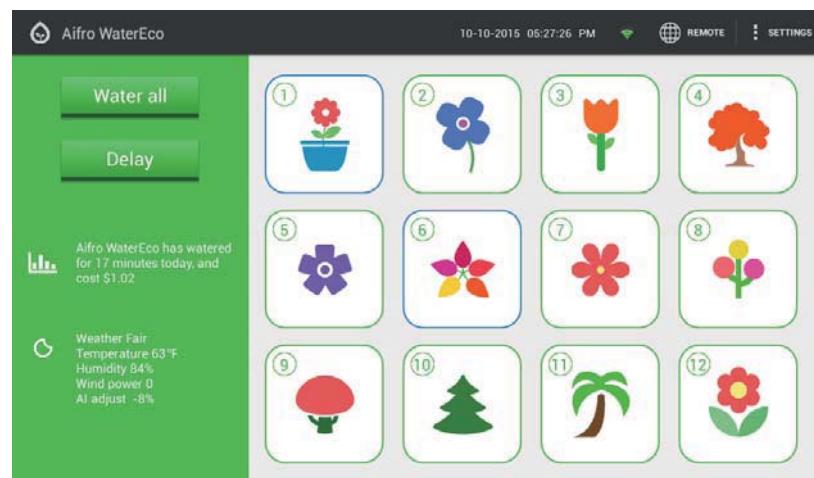
Note:

1. Zones will be watered one by one, not watered simultaneously. The default duration of watering of every zone is 5 minutes, and you can adjust the value by tapping the zone before watering.
2. If you don't want to water at once, tap the "Delay" button and set the delay time, such as 5 minutes later, 10 minutes later, 1 hour later, etc.



During the watering process, you can tap the "Stop" or "Pause" button to stop or suspend the watering anytime.

4. The watering is finished. It will go back to the main interface and the frame color of the watered zones will turn blue.



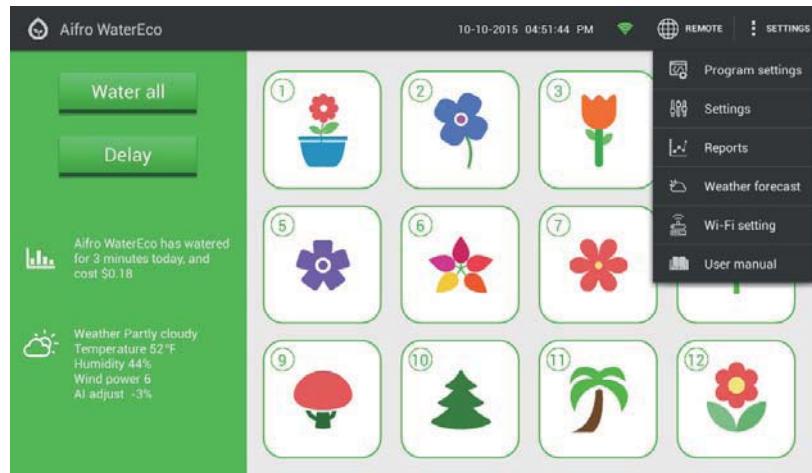
Operation

Create a program to water at a set time

1. Open Aifro WaterEco to enter the main interface.

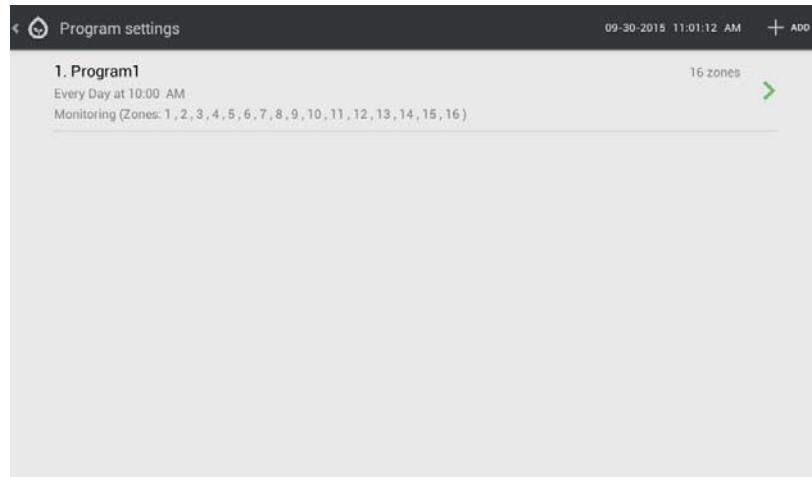


2. Tap the three-dot sign on the top right side and select "Program settings".



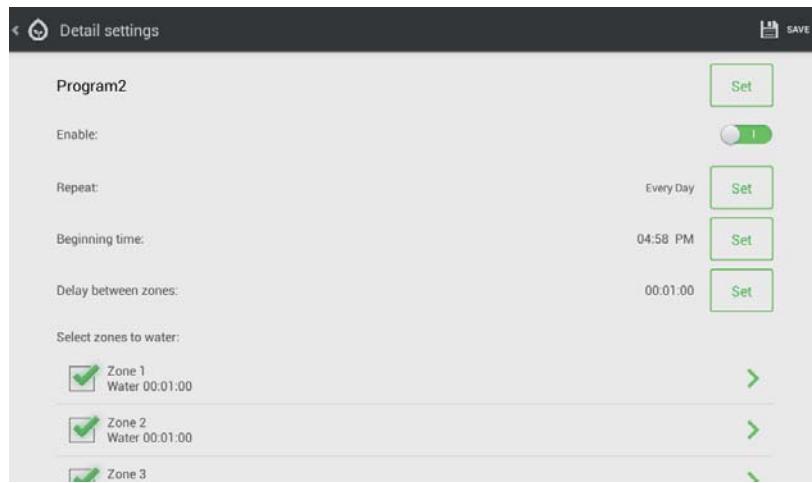
Operation

3. Tap the "Add" button on the top right side to create a program.



4. Enable the program, set the repeat frequency, beginning time, delay interval between zones, select several zones you want to water and then tap the "Save" button on the top right side.

Note: You can also tap the zone and set the zone name, change the zone icon, enable/disable AI smart adjustment, enable/disable "Cycle and Soak", select the plant type, select the soil type and set the regular duration of watering.



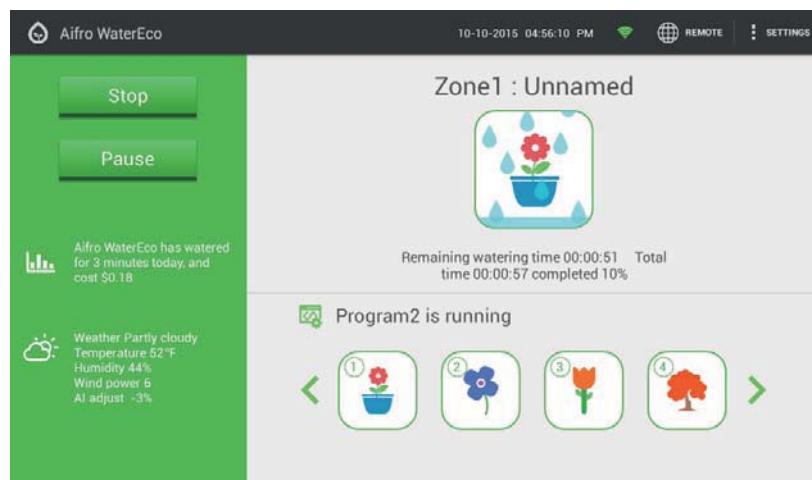
Operation

You can add more programs in the same way and then the programs will be monitored.

Note: If you want to delete programs, please tap the program area, and select "Delete" to delete the program.



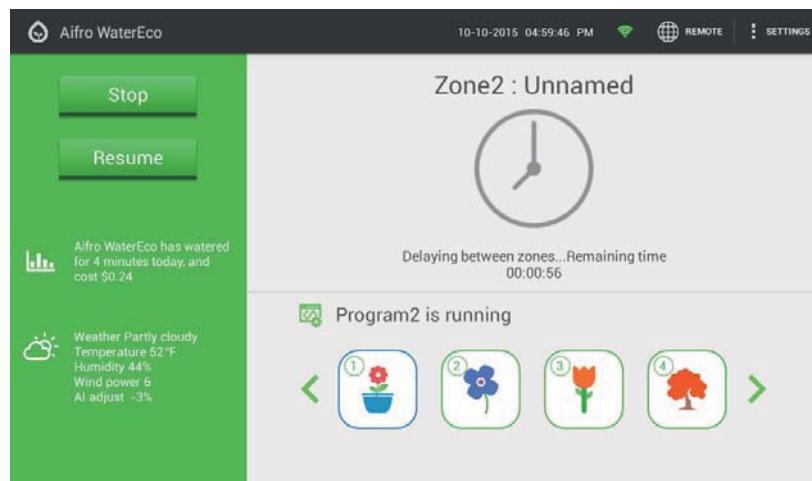
5. When the set time arrives, zones will be watered automatically.



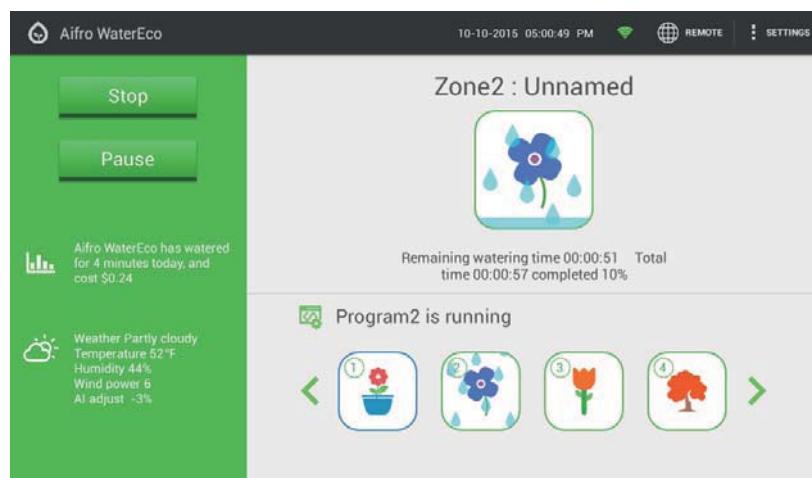
Operation

During the watering process, you can tap the "Stop" or "Pause" button to stop or suspend the watering anytime.

6. When the watering for the first zone is finished, there will be a delay interval as you set. If you did not set the value of "Delay between zones", zones will be watered consecutively without delay.

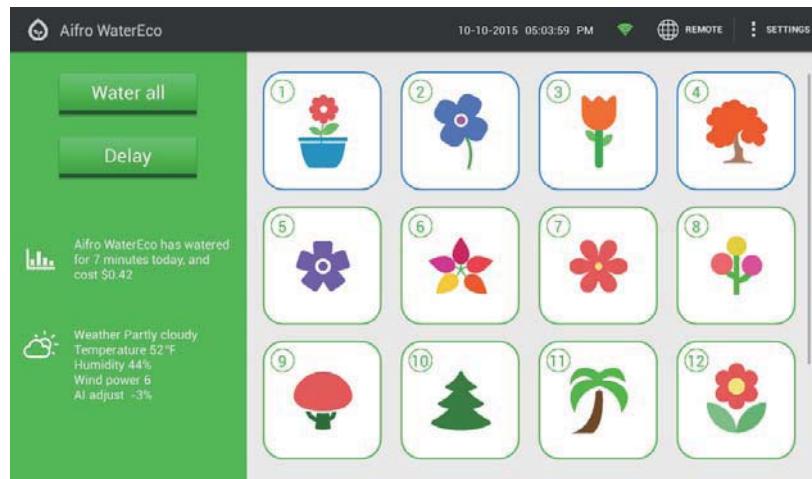


7. After the delay interval, subsequent zones will be watered in the same way.



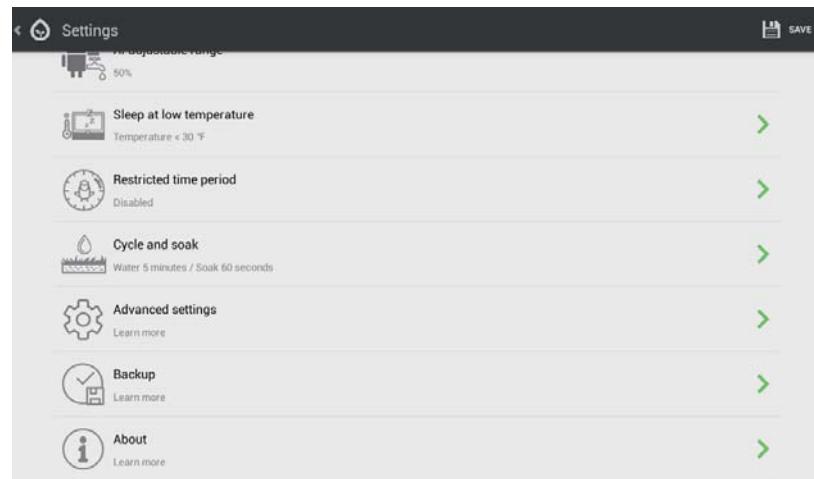
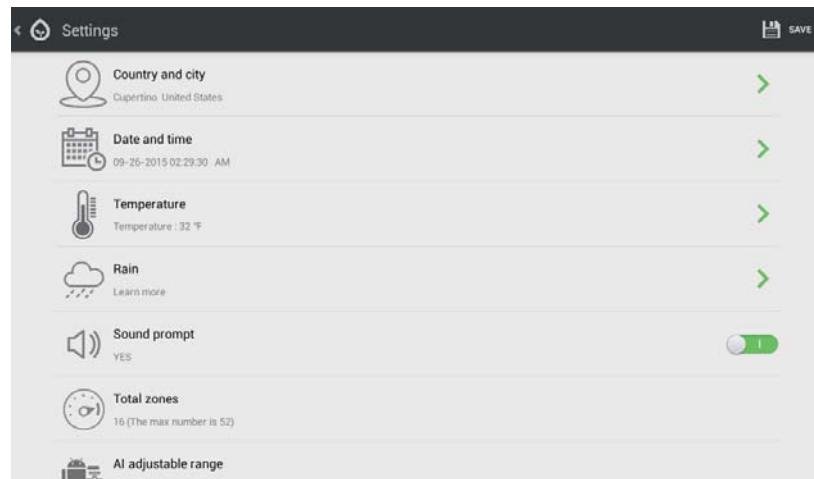
Operation

8. After all zones are finished, it will get back to the main interface, and the frame color of the watered zones will turn blue.



Operation

Advanced Options



Operation

Country and city: Input the information about country, state, city and zip code to obtain accurate weather forecast.

Date and time: Set the year, month, date, time and time zone. You can also select to automatically synchronize with server.

Temperature: Select to show the temperature in the form of Fahrenheit or Celsius and show the current temperature value.

Rain: Set the task suspension duration after raining.

Sound prompt: Select whether there is a sound prompt.

Total zones: The default state is 16 zones, and supports 52 zones at most. (Expansion cards are needed if you want more than 16 zones)

AI adjustable range: System will adjust the duration of watering in every task by weather forecast. You can set a maximum adjustment value for AI watering. The default state is 50%. It can be set from 0% to 100%. 0% means no AI control, while 100% means full AI control.

Sleep at low temperature: Select whether to enable Aifro WaterEco to sleep at low temperature. Set a minimum value for temperature. When the temperature drops below the set value, Aifro WaterEco will suspend all watering tasks, which will save you plenty of water in winter.

Restricted time period: Select whether to enable restricted time period and define the starting time and ending time when watering is disabled every day.

Cycle and soak: Define the duration of cycle and soak.

Advanced settings: Shows the device password, device name and firmware version. You can also tap the "Factory Reset" button to restore the factory settings.

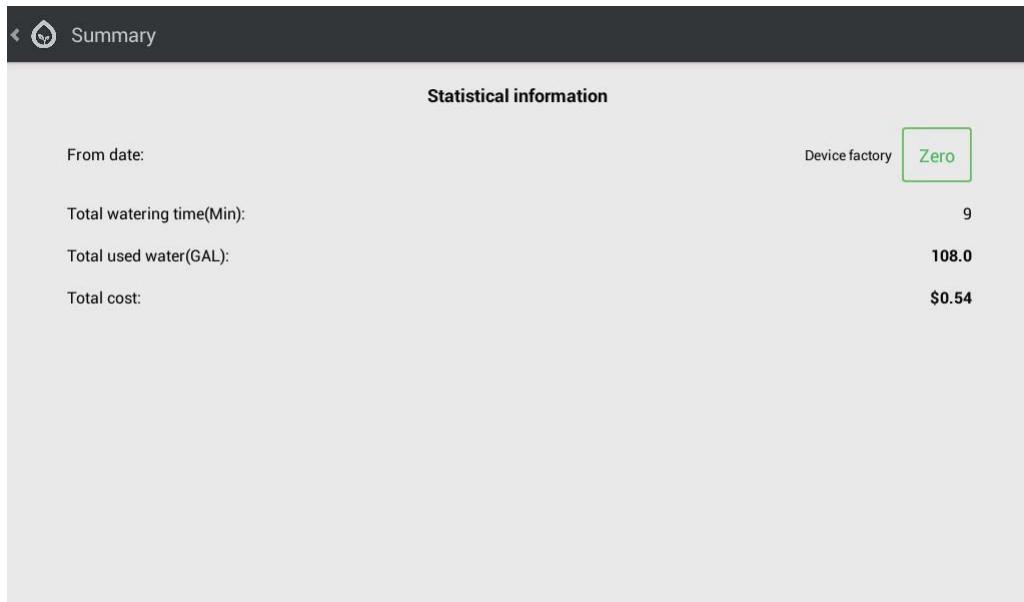
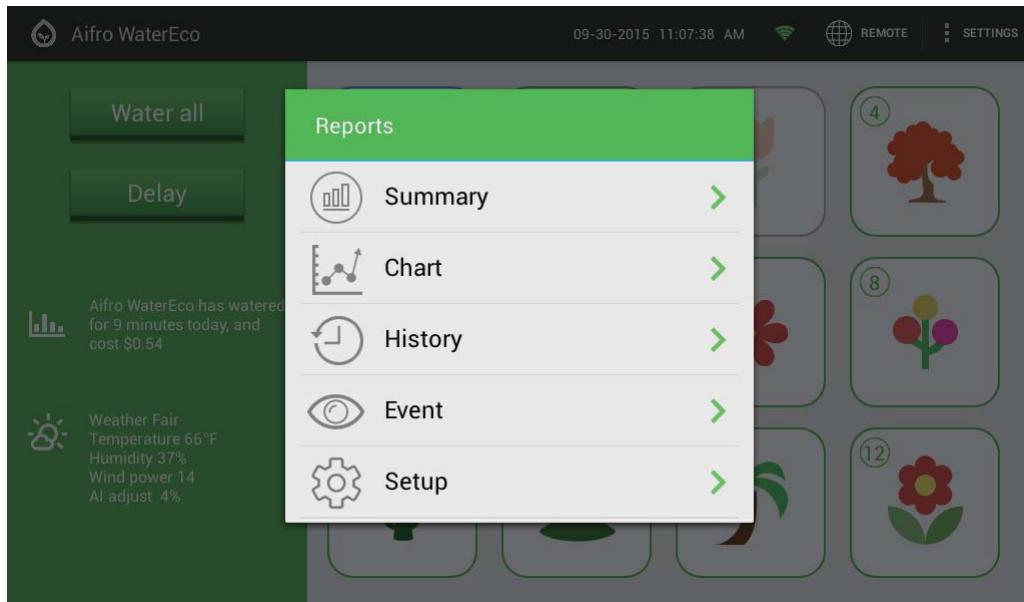
Backup: Back up your settings to Aifro Cloud and restore your settings from Aifro Cloud.

About: Shows the device ID, device version, website and copyright.

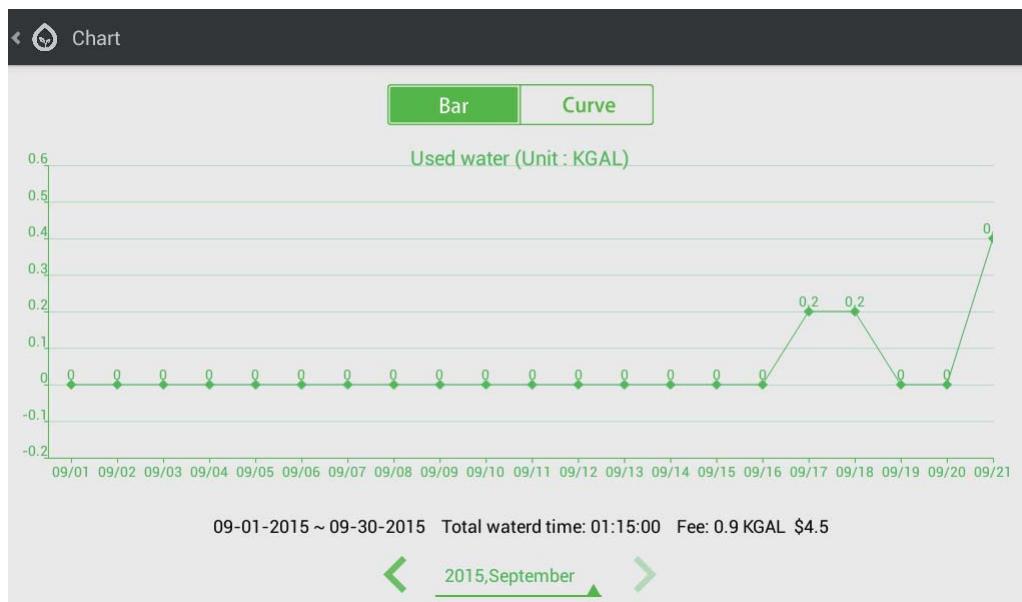
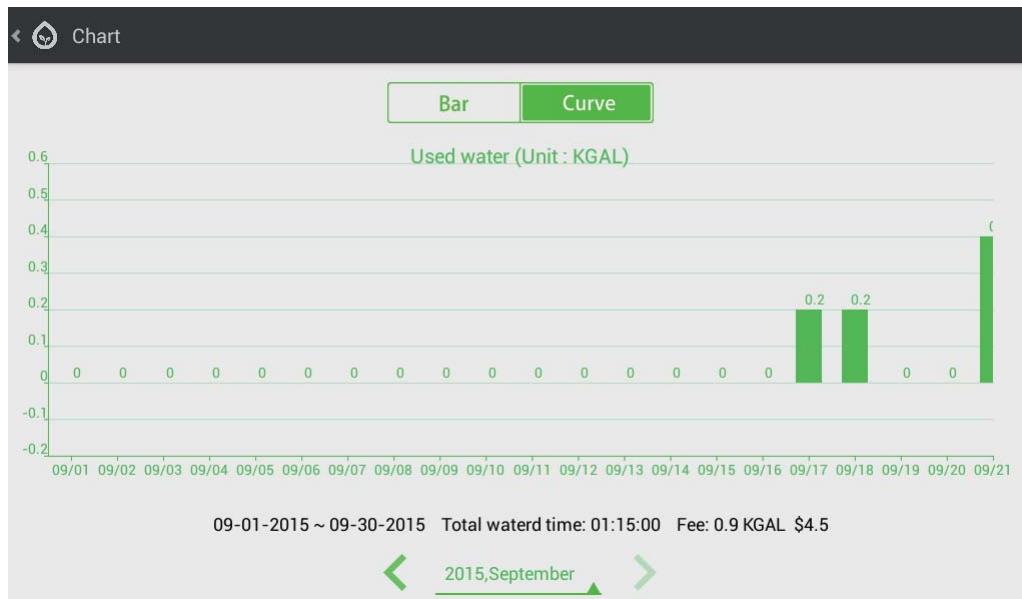
Reports

Check the watering reports in four forms: Summary, Chart, History and Event. Check the water used per minute and dollar cost per gallon.

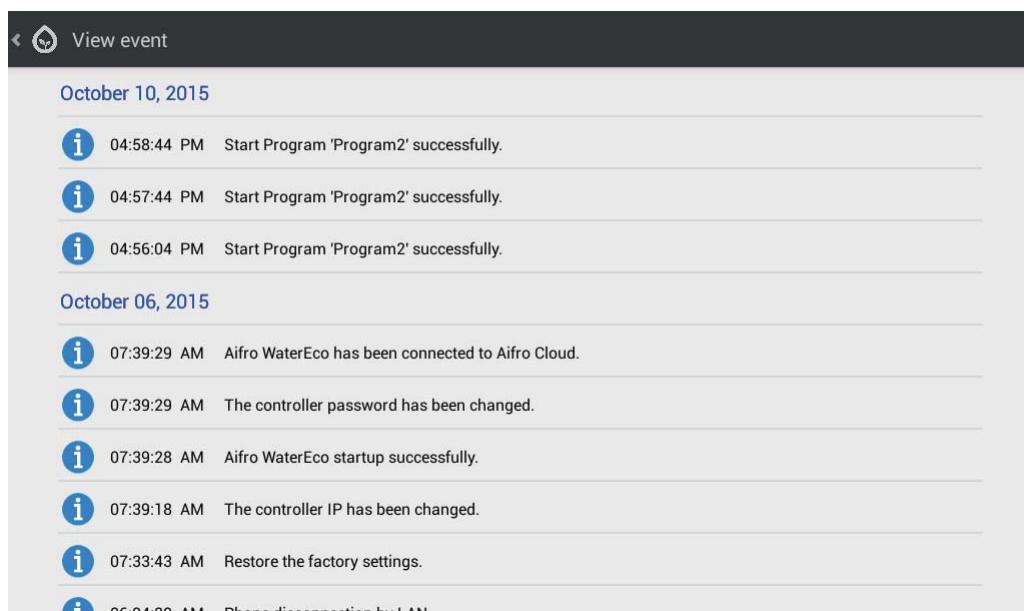
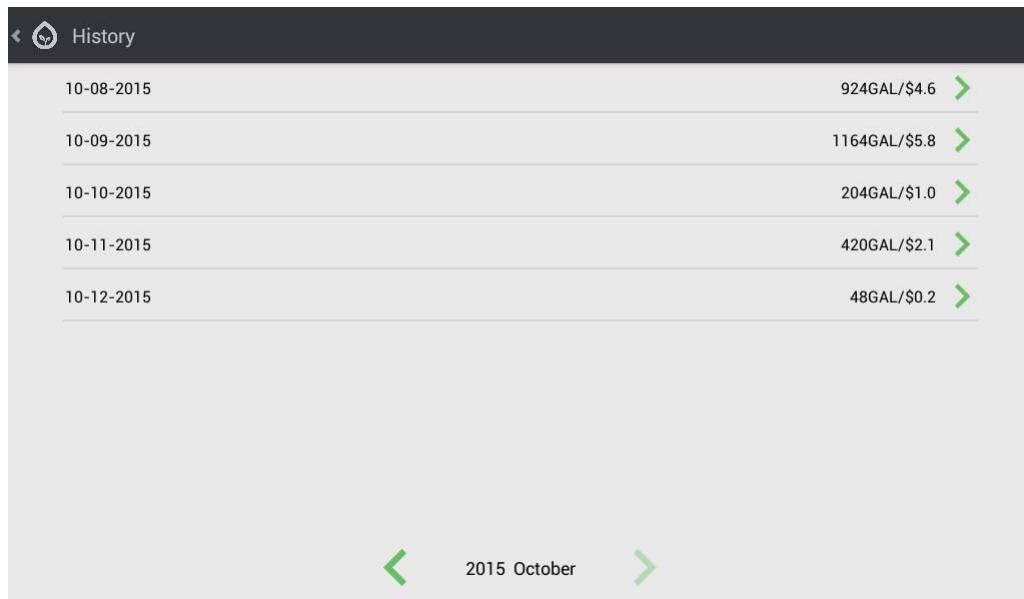
Operation



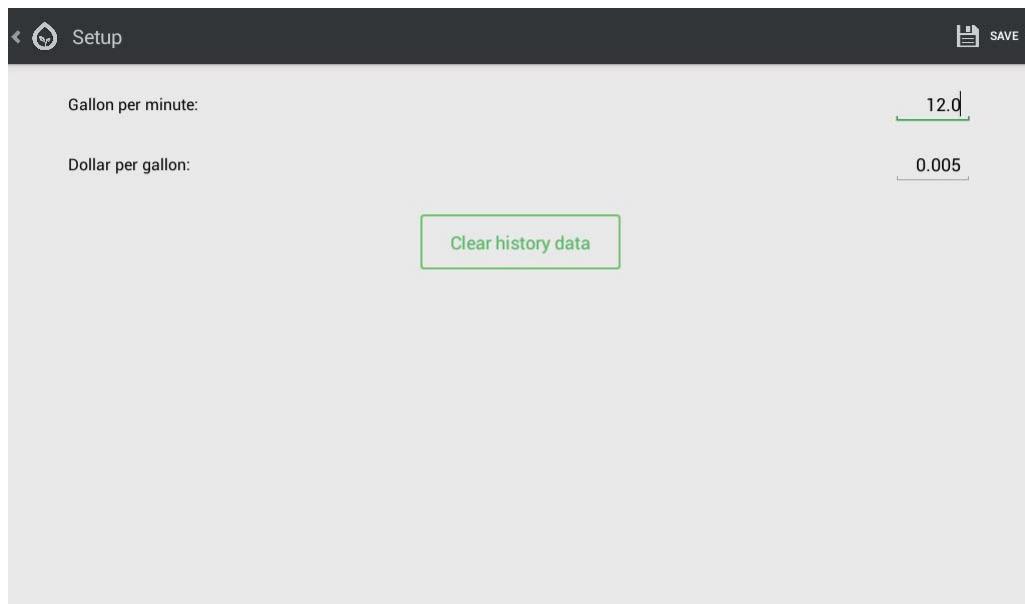
Operation



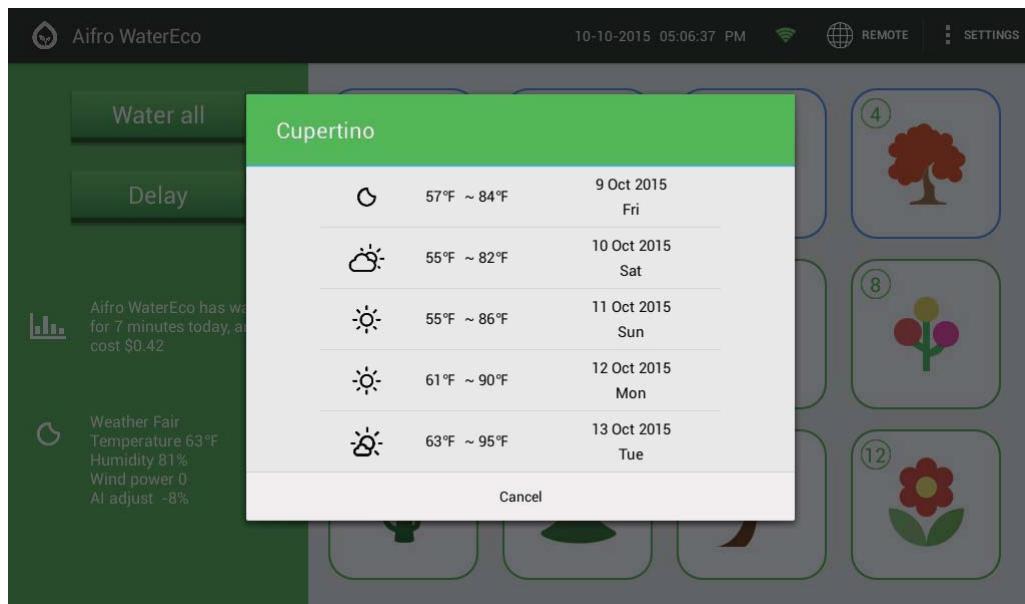
Operation



Operation



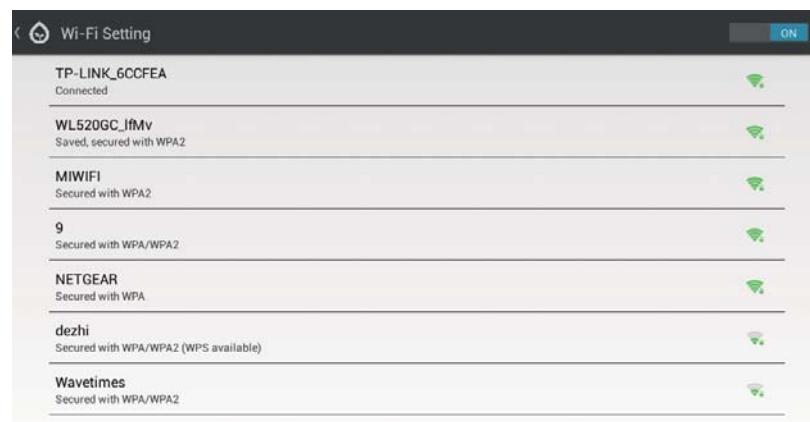
Weather Forecast



This interface shows the information about weather forecast in the next 5 days.

Operation

Wi-Fi Setting



Select a Wi-Fi or router, input the correct password and tap the "Connect" button.

Restore the factory settings

If you forgot your device password, the only method is to restore the factory settings to reset your password. Hold the "Reset" button for about 5 seconds and Aifro WaterEco will be reset.

After Aifro WaterEco is reset, you can login with the default password "12345678" and modify the password on the "Settings" - "Advanced settings" interface.

Note:

1. If you have never changed the device password, please login with the default password 12345678.
2. If you restore the factory settings, then all settings you have made before will be invalid.

Specifications

Hardware Features

- Weather aware
- Wi-Fi, web based
- 16 zones + 1 master zone, 52 zones at most (expansion cards needed)
- Location based weather data
- 7" glass capacitive touch screen
- iOS and Android apps
- Automatic or Manual Rain Delay
- Freeze Control
- Cycle and Soak
- Editable plant type
- Editable soil type
- Indoor use (A protection enclosure is needed for outdoor use)

Programming Features

- 8 programs at most
- Programmable zone delay
- Active/Inactive programs
- Daily, every X days, specific week days

Mechanical Specifications

- Dimensions: 18cm * 14.8cm (7.09 x 5.83 in)
- Weight: 440g (net weight), 1330g (gross weight)
- Package contains: Aifro WaterEco, temperature sensor, quick start, mounting screws, 24V power adapter

Specifications

Wireless Specifications

Wireless Standards	IEEE 802.11n (draft) IEEE 802.11g IEEE 802.11b
Frequency Band	802.11n: up to 150Mbps (downlink) and 150Mbps (uplink) 802.11g: 54/48/36/24/18/12/9/6 Mbps auto fallback 802.11b: 11/5.5/2/1 Mbps auto fallback
Chipset	Realtek8188CUS
RF Frequency	2412 ~ 2462 MHz (North America) 2412 ~ 2472 MHz (Europe) 2412 ~ 2484 MHz (Japan)
Radio Channel	1 ~ 14 channels (Universal Domain Selection)
Range Coverage	Up to 3 times farther range than 802.11g
Antenna type	Integrated Antenna
Roaming	Full mobility and seamless roaming from cell to cell
RF Output Power	17 ~24 dBm (Typical)
Modulation	11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
Data Security	64/128-bit WEP Encryption WPA, WPA-PSK, WPA2, WPA2-PSK, TKIP/AES
Network	Auto-switch to use 802.11n or 802.11g or 802.11b mode Supports Ad-Hoc, Infrastructure WLAN network Wireless roaming Data rate auto fall-back under noisy environment or longer range distance Site Survey with Profile function
Environment	Operating Temperature: 0 °C to 40 °C Storage Temperature: -20 °C to 75 °C Operating Humidity: 10% ~ 90% (Non Condensing) Storage Humidity: 5% ~ 95% (Non Condensing)
Compliant	FCC (USA) CE Mark (Europe) RoHS Compliant Wi-Fi Compliant

Troubleshooting

Solutions to Common Problems

Problem	Possible Cause	Possible Solution
The display screen is not on after booting.	No power detected.	Check whether a beep from the buzzer is heard. If not, please check whether the power adapter is plugged in properly, wires are connected correctly or the switch is pushed up to the end. If a beep is heard, maybe the screen is damaged. In this case, please return it to us for repair.
Can not connect to Wi-Fi	The USB network card is not properly plugged.	Open the green waterproof cover of Aifro WaterEco and plug the network card again.
The buttons on the screen do not respond when tapped.	Program crash	Press the button on the left side of Aifro WaterEco to turn off the power. Wait 3 seconds and then power on again.
Disordered interface	Failed to upgrade	Hold the "Reset" button for about 5 seconds. Loosen when hearing three beeps to restore Aifro WaterEco to the factory settings.

Frequently Asked Questions

How does Aifro WaterEco differ from the standard irrigation system controller?

Unlike other watering system controllers working only on the software, Aifro WaterEco enables you to perform watering tasks on Aifro WaterEco, iOS/Android devices and PC with almost the same interfaces.

Does Aifro WaterEco communicate via Wi-Fi?

Yes, it communicates via Wi-Fi only. If no Wi-Fi is available, Aifro WaterEco will still work but the mobile app can not be used properly.

How many zones can I connect Aifro WaterEco to?

A single Aifro WaterEco works in yards that have 1 to 16 zones connected on default. Meanwhile, Aifro WaterEco supports 52 zones at most. However, you need to have expansion cards to fulfill this function. (A single expansion card can support 12 zones)

Troubleshooting

Will Aifro WaterEco work with my existing sprinkler timer?

Aifro WaterEco will completely replace your existing sprinkler controller on most existing installations. Please be sure your zones are rated 24V AC, 600 mA or less.

My area requires specific days of watering, i.e.: Monday, Wednesday, and Friday. Can Aifro WaterEco accommodate that type of schedule?

Yes. You can select specific days of the week, water daily, every X days.

What if I have more than 16 zones?

No problem. You can set the value on the "Total zones" item of "Settings". You can set the value to 52 at most. However, Aifro WaterEco has only 16 zones, so you need to install expansion cards to facilitate more zones.

What is the function of "Cycle and Soak"?

"Cycle and Soak" enables you to avoid water waste. Each soil type can absorb a specific amount of water in a time interval. In order to avoid runoffs, you can split the watering interval in multiple cycles, allowing a soak time between cycles. This feature is recommended for compacted, clay soil or for sloped surfaces. However, on any soil or surface, soak time enables water to penetrate deeper, growing healthier roots.

Does Aifro WaterEco consider different soil types and adjust watering amounts based on that?

Yes, it does. You can select the soil type in "Zone Settings". Then, Aifro WaterEco will adjust your watering amount according to weather data.

Does Aifro WaterEco consider different plant types for different zones and adjust watering amounts based on that?

Yes, it does. You can select the plant type for each zone in "Zone Settings". Then, Aifro WaterEco will adjust your watering amount according to weather data.

Is there a built-in backup schedule?

Yes. Anytime Aifro WaterEco goes offline it will continue to use the last updated schedule.

Can I control Aifro WaterEco from my Windows, Mac or Linux desktop personal computer?

Yes, you can control Aifro WaterEco using a webkit based Internet browser on your Windows, Mac or Linux desktop PC. Example of webkit desktop browsers: Internet Explorer/Firefox/Google Chrome/Apple Safari/Opera.

What is the delay interval between zones?

Delay interval – enables you to specify an amount of time between two consecutive zones, to accommodate specific irrigation systems that require time to fill up water tanks or build up water pressure.

Does Aifro WaterEco have an iOS app? More specifically, do you have a native iPhone app, native iPad app, or both?

Yes. We have a native iOS app for both iPhone and iPad. Please download the mobile app from <http://www.aifro.com/download.html>

Troubleshooting

After the initial purchase, are there any ongoing costs? If so, how is that structured?

No, there are no hidden costs, monthly fees or any other expenses involved.

Is Aifro WaterEco capable of firmware updates and can that be done by the user?

Yes. If there is a firmware update available, you can enter "Settings" - "Advanced settings" and then tap the "Upgrade" button to finish the firmware update.

Can Aifro WaterEco be set to not water if it 1) has rained in the last x hours/days, 2) is currently raining, 3) is forecasted to rain in the next x hours/days? What method does Aifro WaterEco use to determine if it has 1) rained in the past, 2) is currently raining, 3) is forecasted to rain in the future?

Aifro WaterEco is a forecast watering controller. The rain events in the last few hours were already considered in the last forecast. The current and future rain amounts would be considered in the most recent weather forecasts. So, the answer is yes.

What if I forgot the device password?

If you forgot the device password, the only method is to restore the factory settings to reset the password. Hold the "Reset" button for about 5 seconds and Aifro WaterEco will be reset.

After Aifro WaterEco is reset, you can login with the default password "12345678" and modify the password on the "Settings" - "Advanced settings" interface.

Note:

1. If you have never changed the device password, please login with the default password 12345678.
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FCC Standard

The Federal Communications Commission (FCC) is an independent agency of the United States government, created by Congressional statute to regulate interstate communications by radio, television, wire, satellite and cable in all 50 states, the District of Columbia U.S. territories. The FCC works towards six goals in the areas of broadband, competition, the spectrum, the media, public safety and homeland security.

FCC regulations are designed to reduce electromagnetic interference, manage and control radio frequency range and protect normal operation of telecommunication networks and electrical products. According to the US Federal Communications laws and regulations, electronic products imported to the United States need to pass the EMC certifications (except for some of the relevant provisions of special products). The most common authentication methods are Certification, DOC and Verification.

After passing the FCC authentication, authorized products should bear a special certification mark.

Aifro WaterEco has passed FCC, UL, CE, RoHS and Wi-Fi 802.11 international authoritative organization certifications.

Company

Contact Us

We strongly recommend that you first find answers to your questions on the Frequently Asked Questions section before trying to contact us.

- Sales & market, anything regarding purchasing products, commercial cooperation or advertisements, please send an Email to: sales@aifro.com
- If you encounter problems when using our hardware or software, please feel free to contact us by Email: support@aifro.com
- If you are experiencing difficulties in using or accessing our website, please contact the webmaster: marketing@aifro.com
- If you are interested in Aifro affiliate program, please send us an Email: marketing@aifro.com

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FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body