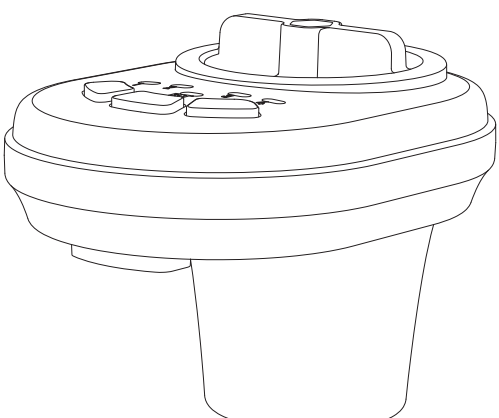
RainPoint® Smart
More Than Water Saving

USER MANUAL

4-ZONE WIRELESS DC SPRINKLER CONTROLLER

Model No. HIC406B

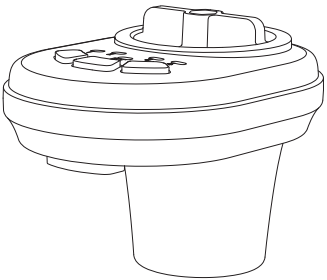


Welcome to the **RAINPOINT** family! Please read the manual before using to learn about the features and functions.

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1. Contents in the box



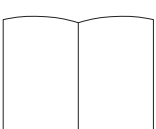
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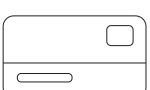
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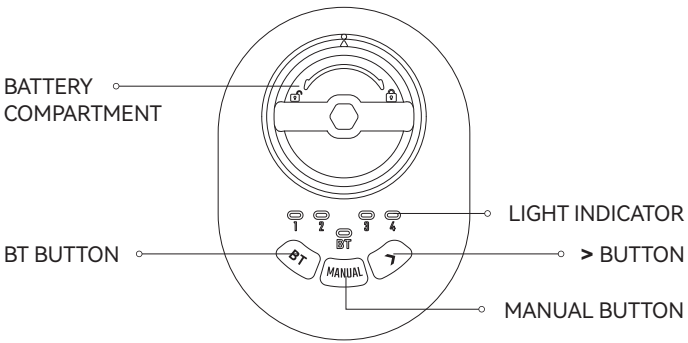


5

1. **HIC406B 4-Zone Wireless DC Sprinkler Controller**
2. **User Manual**
3. **Clamp components**
4. **Quick Guide**
5. **Warranty Card**

2. Introduction

2.1 Product Overview



2.2 Button Introduction

BUTTON	MODE	OPERATION	FUNCTION
"BT" Button	Standby mode	Long press for 2 seconds	Enter Bluetooth connection mode.
"MANUAL" Button	Plan mode	Short press	Turn off the ZONE irrigation in the current plan, cancel the ZONE waiting to be executed, and enter standby mode.
	Manual mode	Short press	Close the current ZONE valve and enter standby mode.
	Select the "ZONE" mode	Short press	The selected ZONE performs irrigation plans.
"**>**" Button	Select the "ZONE" mode	Short press	Switch and select ZONE in the order of 1→2→3→4→1...

BUTTON	MODE	OPERATION	FUNCTION
">" Button	Standby mode	Short press	Enter the ZONE selection mode and select ZONE 1.
	Plan mode	Short press	When there are multiple ZONEs in the plan, short press to end the irrigation of the current ZONE and execute the irrigation of the next ZONE; If it is currently the last ZONE for irrigation, short press to end this plan and enter standby mode.
	Manual mode	Short press	When there are multiple ZONEs in the plan, short press to end the irrigation of the current ZONE and execute the irrigation of the next ZONE; If it is currently the last ZONE for irrigation, short press to end this plan and enter standby mode.

2.3 Specification

ITEM	SPECIFICATION
Waterproof level	IP68
Working temperature range	3℃~50℃ (37℉~122℉)
Storage temperature	4~122℉ (-10~50℃)
Powered by	4*AA alkaline battery (not included)

2.4 Product features

- Maximum control of 3 sub valves and one main valve.
- Can be connected to a rain sensor.
- Clear indicators and buttons for easy operation of the product.
- Manual watering is available on both the product and the APP.
- Each valve can be set with 8 different watering plans.
- Low battery warning.
- Seasonal adjustment function.
- View watering schedules calendar.

3. Connection and Installation

3.1 Connection

Setup Video

Customer Support

Tips: Please scan the QR code or search the link for setup video or customer support to install the device quickly.
Setup Video: www.youtube.com/@rainpoint
Customer Support: www.rainpointonline.com/pages/support

3.1.1 Install App On Your Phone

1. **Download the RainPoint-Smart+ App**
   Search for "**RainPoint-Smart+"** on Google Play/App Store.

GET IT ON Google Play

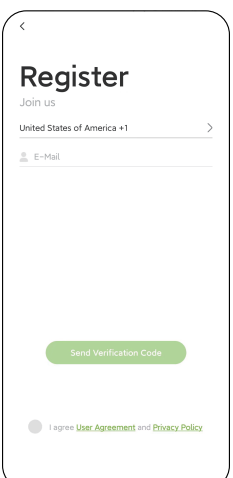
Download on the App Store

Or scan the QR code to download the **RainPoint-Smart+** APP.

iOS

Android

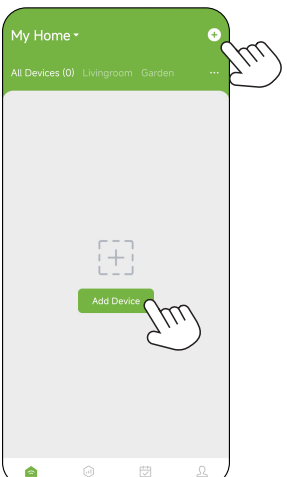
2. **Register your RainPoint-Smart+ account**
   Open your **RainPoint-Smart+** APP, select **Register**. Follow the prompts to register a **RainPoint-Smart+** account with your email or mobile number.



3.1.2 Connect the 4-Zone Wireless DC Sprinkler Controller

The device supports direct pairing with the phone through Bluetooth, simply place the device to be added close to the phone (make sure the Bluetooth is turned on).

a. Open the RainPoint-Smart+ App and tap the icon ⊕ in the upper right corner of the APP homepage or **"Add Device"** to add a device.

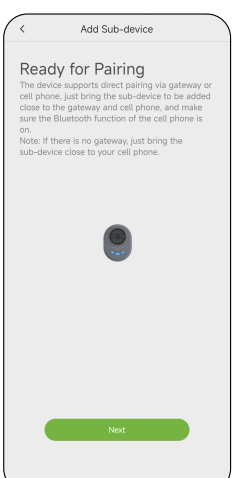


b. Find and select **"HIC406B"** or icon to add the 4-Zone Wireless DC Sprinkler Controller. Or press scan QR code and enter into next step.



Scan to connect

0250406400

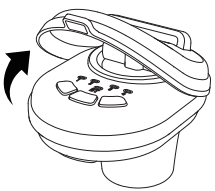


c. Tap **"Next"** to start pairing the sprinkler controller.

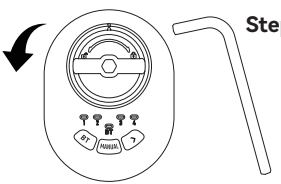
NOTE: Please ensure your phone Bluetooth function is on.

d. Install Batteries to the Controller.

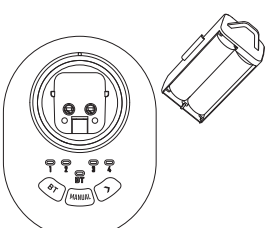
- Open the rubber cover on the surface of the controller.
- Use a hex wrench (not included), or rotate counterclockwisely by hand to open the battery compartment cover.
- Take out the battery compartment and insert 4 new AA (1.5V) alkaline batteries (not included), and put the battery compartment back.
- Close the battery compartment cover clockwisely to ensure it is completely sealed.



Step ①



Step ②



Step ③

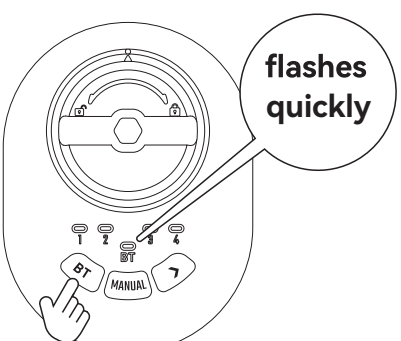


NOTE: Make sure the arrow is aligned with the spot (see picture left) when close the battery compartment cover, indicating it is completely sealed.

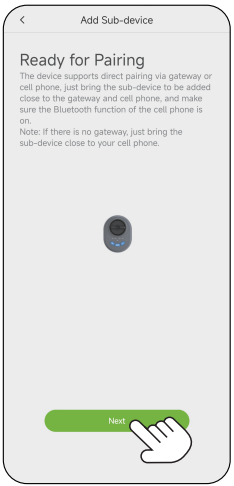
ATTENTION:

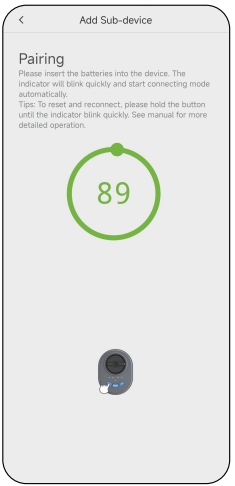
- After changing batteries, the plans you set before will not be stored so you need to set the plans again.
- After installing the battery, please firmly install the battery cover to avoid water leakage.
- When not using the controller for a long time, please remove the battery and dispose of it properly.
- Replace the battery when a low battery indicator appears on the device.
- Do not throw the battery into the fire as it may explode or leak.
- To ensure a longer lifespan, please use 4 new AA alkaline batteries (not included).
- Do not mix new and old alkaline batteries, standard batteries (carbon zinc batteries), or rechargeable batteries.

e. After inserting the batteries into the controller, or press and hold the **"BT"** button for 5 seconds, the indicator light of BT flashes quickly and the device enters into pairing mode:

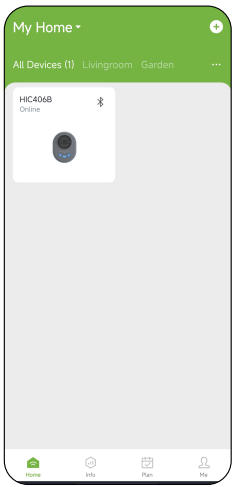


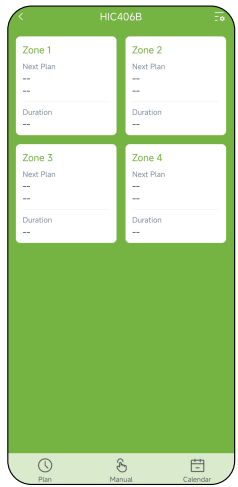
f. Click **"Next"** and it will start pairing the controller automatically.





g. After adding the device successfully, the indicator light of BT will be always on. Tap the device icon on the APP homepage to enter the device homepage.





3.2 Installation

3.2.1 Valve Installation

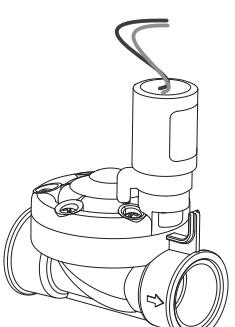
a. You need to confirm whether the solenoid valve you purchased matches the solenoid valve supported by **HIC406B** through the following table:

TYPE	PARAMETER	IS IT SUPPORTED TO USE
AC solenoid valve	—	×
DC pulse solenoid valve	Pulse electromagnetic type	√
AC motor valve	—	×
DC pulse motor valve	Pulse motor type	√

Attention: If you are unsure about the model of the solenoid valve you have purchased, please consult the original manufacturer.

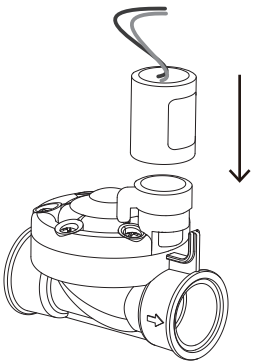
b. Please connect the solenoid valve head to the valve.

- If you have an AC solenoid valve or AC motor valve, you need to remove the AC solenoid head or AC motor head from the valve body and replace it with a DC solenoid head or DC motor head; If you have a DC electromagnetic head or DC motor head, please skip this step:

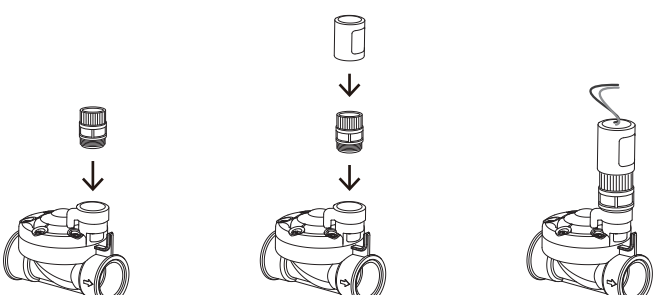


- Determine if the size of the DC electromagnetic head you purchased matches the valve body. If it does, connect it directly. If it does not, use an adapter (to be purchased separately) for connection.

Matching of electromagnetic head and valve size:



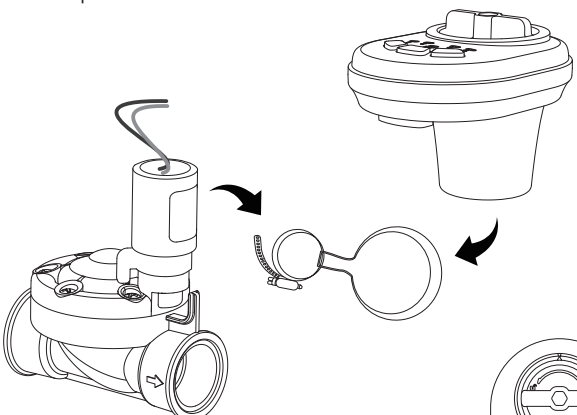
Mismatch between electromagnetic head and valve size (choose medium or large adapter according to actual situation):



Step ① **Step ②** **Step ③**

3.2.2 Controller Installation

Lock the end of the clamp with a screw at the solenoid valve, ensuring that the screw is locked to prevent loosening, and then place the controller on the other end of the clamp.

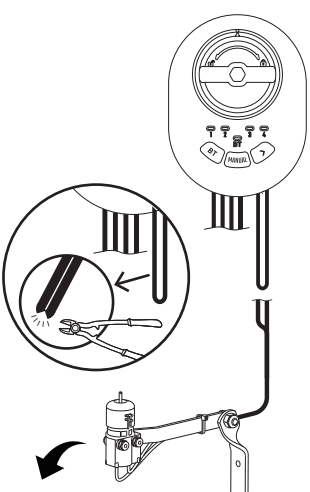


3.2.3 Wire Connection

a. Wired Rain Sensor Connection.

- Cut open the yellow wire with scissors.
- Peel off an appropriate length of insulation material from the wire.
- Connect the rain sensor wire to the yellow wire of the device.

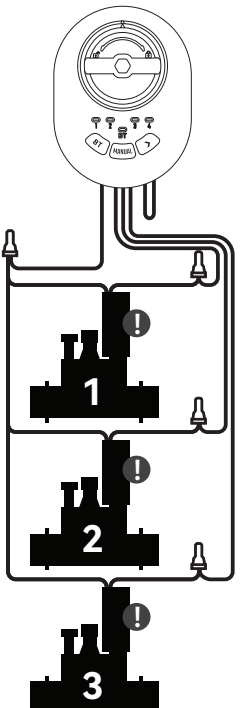
Attention: Do not peel off the yellow sensor wire unless using a wired rain sensor.



Rain Sensor (not included)

b. Valve wire connection.

- Peel off an appropriate length of insulation material from each wire.
- Connect one end of the red wire to the valve body according to the number of the red wire terminal on the controller.
- Connect the black wire to the other end of the valve body.



Attention: The red wire number 4 is the wire connecting the main valve.

4. APP Introduction

4.1 APP Homepage

All Devices

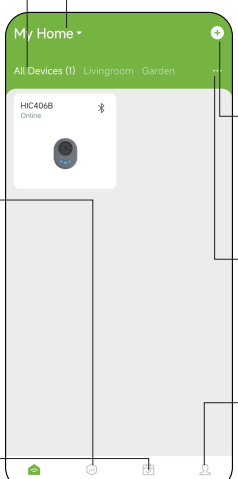
A check list of all the devices you have connected. Tap the icons to enter the operation page of devices you have added to program the operation schedule of the device.

Info

On the "Info" screen, you can check the weather conditions for the next seven days in your area and the next plan time of the devices you have connected.

Plan

On the "Plan" screen, you can view, customize, and turn on or off the watering schedules for the devices you have connected. You can also turn on or off the "Rain Delay" function for rainy days and choose its duration from 24, 48, or 72 hours.



Home Management

You can locate your home, customize the home name and add family members or add other homes. It is convenient for you to manage irrigation schedules for different residences.

Add Devices

You can add multiple RainPoint devices on the APP to create a smart home irrigation system.

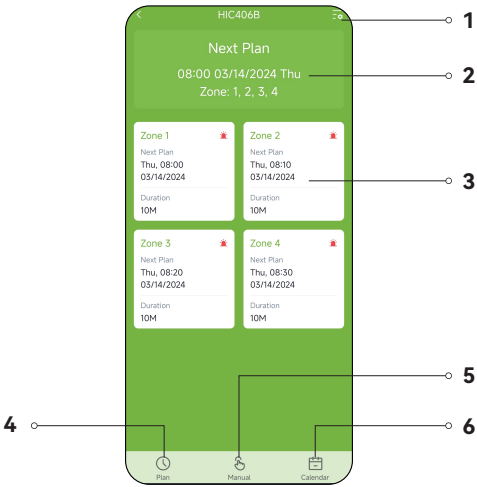
Room Management

Room Management is for indoor automatic irrigation system in different room.

Me

On the "Me" screen, you will receive notifications for device online/offline status, irrigation records, and alerts for high temperature under "Event". Get FAQs and user manuals, as well as report issues through "Help & Feedback". Adjust language preferences and turn on/off notifications in the "Settings" menu.

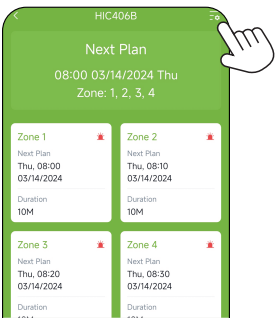
4.2 Sprinkler Controller Homepage



1. **Settings:** Basic settings of the controller.
2. **Next plan:** Display the next watering plan for 4 areas.
3. **4 Zones:** Check the watering plans of the specific zone.
4. **Plan:** Set and manage watering plans.
5. **Manual watering:** Set manual watering plans for 4 zones.
6. **Plan Calendar:** View watering plans for different zones on all dates.

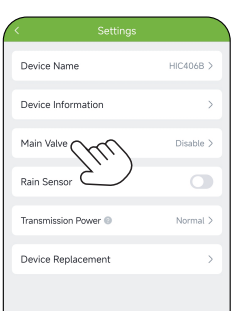
4.3 Basic Setting

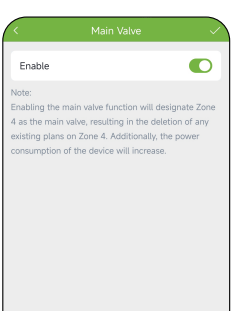
Tap the icon on the upper right corner of the device homepage and go to the **"Settings"** page. In the basic settings, you can view and manage device information, such as device name, device information, etc.



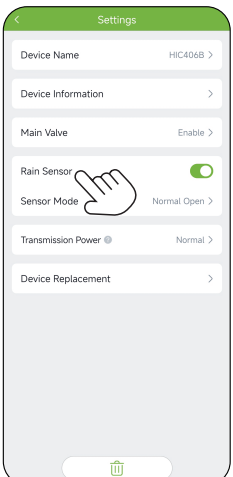
You can also set some advanced settings for specific functions:

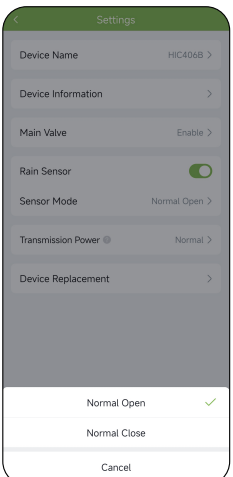
Enabling and disabling the main valve: Set the enable and disable of the controller main valve.





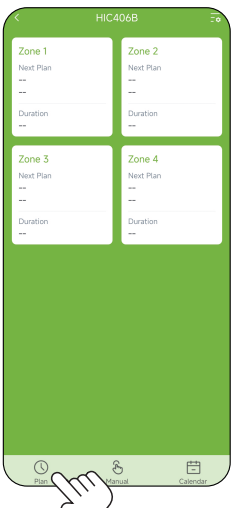
Rain Sensor settings: After connecting the external rain sensor, turn on the **Rain sensor** button and select **"Normal Open"** or **"Normal Close"** according to the rain sensor type.

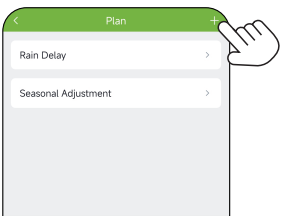


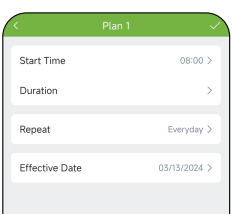


4.4 Plan Setting

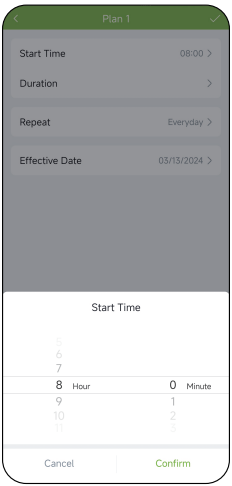
a. Press **"Plan"** to enter the plan page, and click the + in the upper right corner of the page to set a watering plan. You can set up to 8 sets of plans.



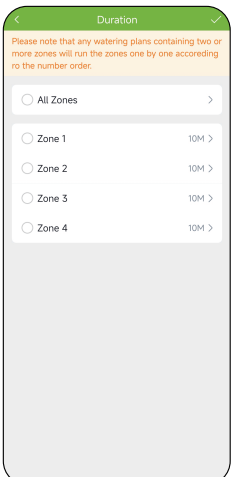


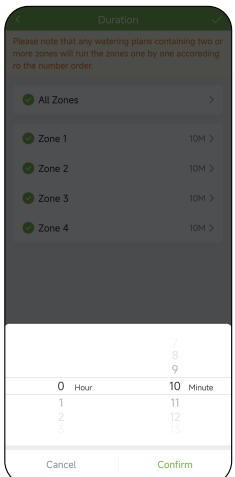


b. **Start time:** Set the start time for the irrigation.



c. **Duration:** Choose the zones needed for irrigation and set different duration for each selected zone.



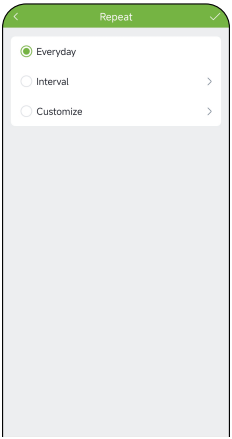


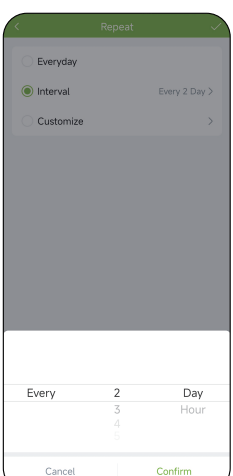
d. **Repeat:** You can set daily, interval, and customize watering frequency. Each ZONE can only set plans of one watering frequency mode. When a zone sets a plan of one watering frequnecy, then the zone cannot set plans of other watering frequencies. When a zone sets plans with the same watering frequencies, up to 8 plans can be set. e.g.:

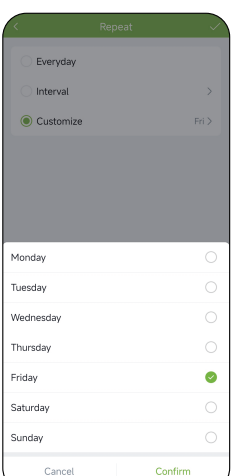
When ZONE 1 sets a plan with the watering frequency as everyday, then ZONE 1 cannot set other plans with the watering frequency set to be interval hours/days or customize days. But you can set up to 8 plans with the watering frequency set to be everyday.

When ZONE 2 sets a plan with the watering frequency as every 1-23H, then ZONE 2 cannot set another plan.

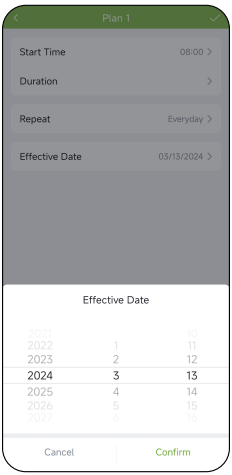
When ZONE 3 sets a plan with the watering frequency as customize days, then ZONE 3 cannot set other plans with the watering frequency set to be everyday or interval hours/days. But you can set up to 8 plans with the watering frequency set to be customize days.


Repeat
Everyday
Interval
Customize


Repeat
Everyday
Interval
Every 2 Day
Customize
Every
2
3
4
5
Day
Hour
Cancel
Confirm

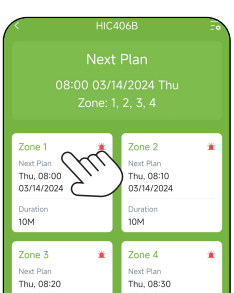

Repeat
Everyday
Interval
Customize
Fri
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
Cancel
Confirm

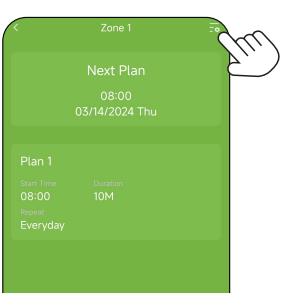
e. **Effective date:** Select the day to function the plan.



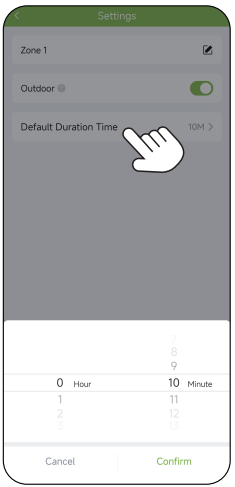
4.5 Single Zone Setting

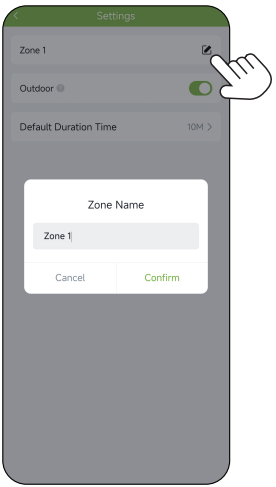
Detail Page: Click on Zone from the home page to go to the zone's detail page.





Zone settings: Click on the top right corner on the zone page to go to the setting page. You can modify the default irrigation time, zone name, etc. of the zone.

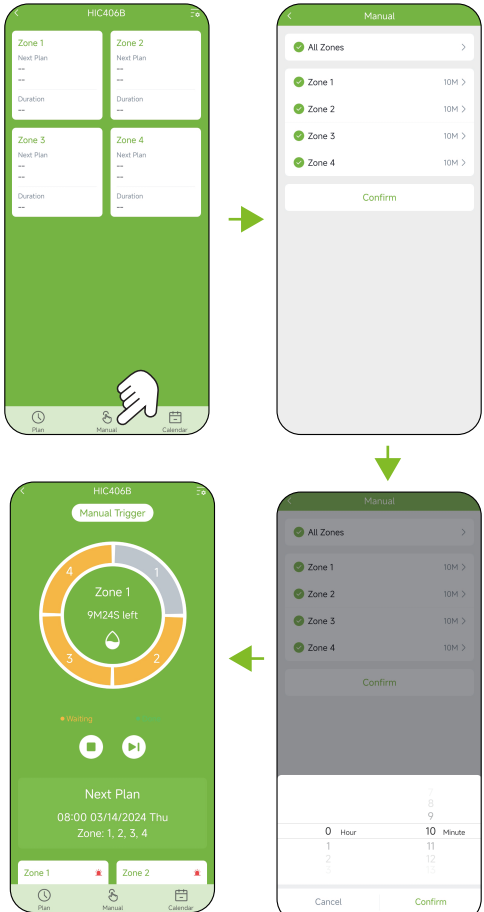




4.6 Manual Watering Setting

a. Press **"Manual"** at the bottom of the device homepage to enter into manual watering setting.
b. Select the zone you want for irrigation and set the watering duration.
c. After setting, you can press ▶❙ to switch the irrigation zone, or press ■ to stop the manual watering.

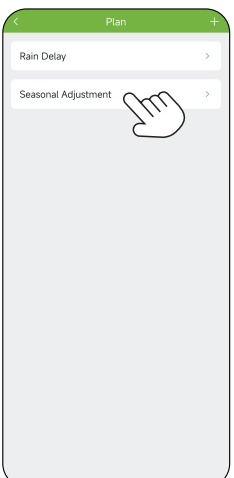
NOTE: When you turn on manual watering, if there is a plan running or a plan will start during your manual watering time, it will skip that plan.

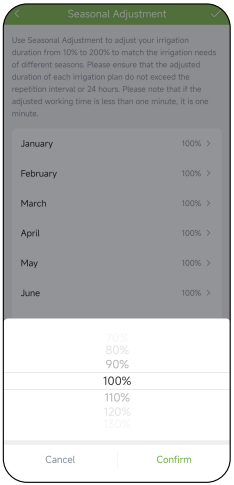

HIC406B
Zone 1
Next Plan
--
--
Duration
--
Zone 2
Next Plan
--
--
Duration
--
Zone 3
Next Plan
--
--
Duration
--
Zone 4
Next Plan
--
--
Duration
--
Plan
Manual
Calendar
Manual
All Zones
Zone 1 10M
Zone 2 10M
Zone 3 10M
Zone 4 10M
Confirm
Manual
All Zones
Zone 1 10M
Zone 2 10M
Zone 3 10M
Zone 4 10M
Confirm
0 Hour
10 Minute
Cancel
Confirm
HIC406B
Manual Trigger
Zone 1
9M24S left
Waiting
Next Plan
08:00 03/14/2024 Thu
Zone: 1, 2, 3, 4
Zone 1
Zone 2
Plan
Manual
Calendar

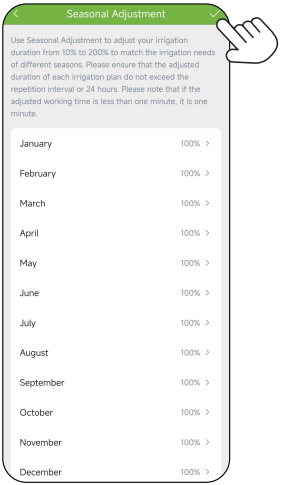
4.7 Seasonal Adjustment

Go to device homepage, tap **"Plan"** at the bottom, then select **"Seasonal Adjustment"** to adjust the irrigation duration for different seasons. By setting the percentage of each season, the actual watering duration is the duration you set in the plan multiplies by the percentage you set for the season. In this case, you can save more water by setting different watering duration for each season according to the moisture difference.



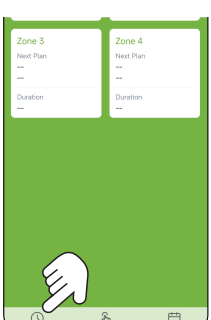


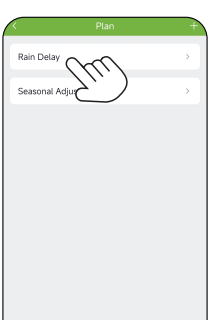


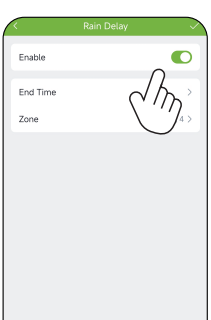


4.8 Rain Delay Setting

a. Tap **"Plan"** at the bottom of the device homepage and enter into **"Rain Delay"** setting. Enable the **"Rain Delay"** function.

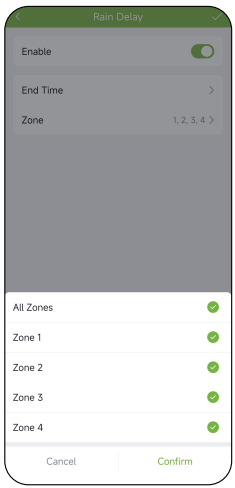






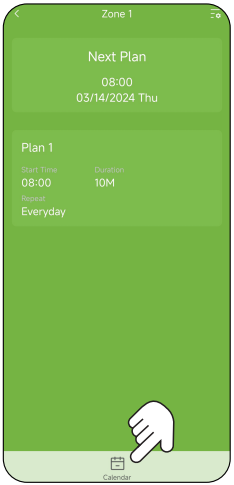
b. Set the rain delay End Time and the zone you want the plans to be delayed when it rains.

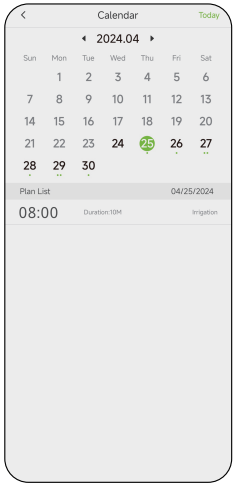


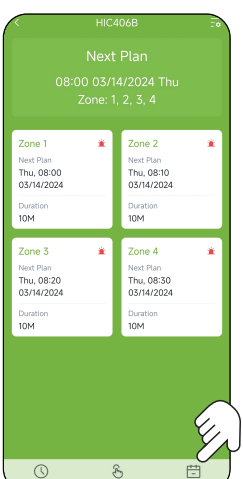


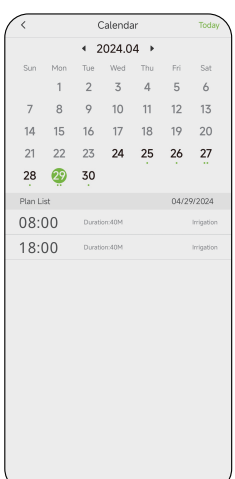
4.9 Irrigation Calendar

Press **"Calendar"** at the bottom of the zone page to check all date irrigation plans of the specific zone; press **"Calendar"** at the bottom of the device homepage to check all irrigation plans for different zones.


Zone 1
Next Plan
08:00
03/14/2024 Thu
Plan 1
Start Time
08:00
Duration
10M
Repeat
Everyday
Calendar

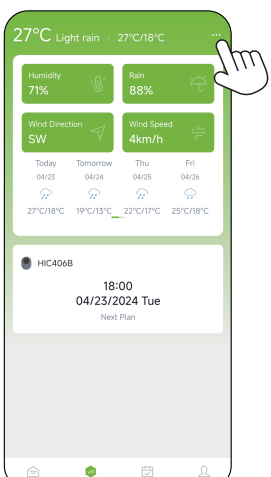

Calendar
Today
2024.04
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
Plan List
04/25/2024
08:00
Duration:10M
Irrigation

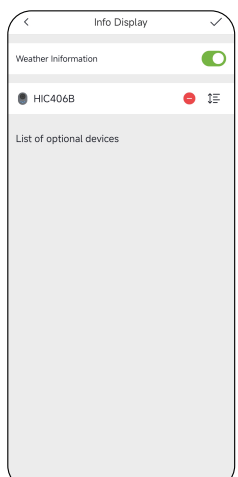

HIC406B
Next Plan
08:00 03/14/2024 Thu
Zone: 1, 2, 3, 4
Zone 1
Next Plan
Thu, 08:00
03/14/2024
Duration
10M
Zone 2
Next Plan
Thu, 08:10
03/14/2024
Duration
10M
Zone 3
Next Plan
Thu, 08:20
03/14/2024
Duration
10M
Zone 4
Next Plan
Thu, 08:30
03/14/2024
Duration
10M
Plan
Manual
Calendar


Calendar
Today
2024.04
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
Plan List
04/29/2024
08:00
Duration:40M
Irrigation
18:00
Duration:40M
Irrigation

4.10 Weather Conditions & Devices' Next Plan Time

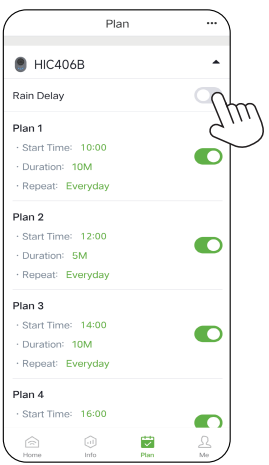
In the **Info** screen, you can check for the weather conditions and the devices' next watering time. For the first time, you need to tap **"Get Location"** and then tap **"Save"** to save your location information, and the Info screen will display the weather conditions of the day, including temperature, humidity, rain forecast, wind direction and wind speed, as well as the 7-day weather conditions. You can also correct your location information as follows: **Me → HOME Management → My Home → Location → Get Location → Save**. The weather information can help you with decisions of whether to adjust your watering schedules according to the weather. Tap the icon on the top right corner of **Info** screen to turn on/off weather display, or add/delete devices' next plan time display.

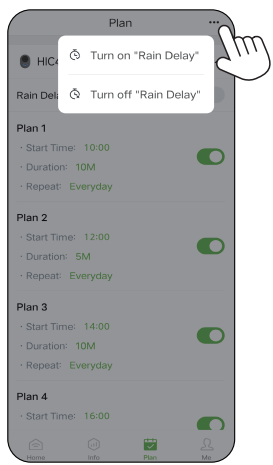




4.11 Plan Overview & Setting

In the **Plan** screen, you can check the plan you set of all your connected devices and adjust each plan here conveniently. You can set the **Rain Delay** function for the specific zones through the button below the controller icon (see the left image below, refer to **4.8 Rain Delay Setting** in this manual to set the rain delay function). You can also set the **Rain Delay** function by **24/48/72H** easily or turn off the **Rain Delay** schedule for all zones through the button by the icon on the top right corner(see the right image below).

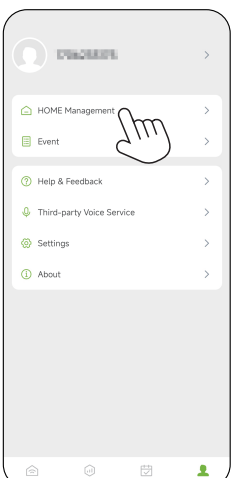


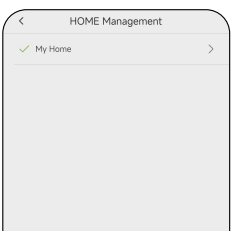


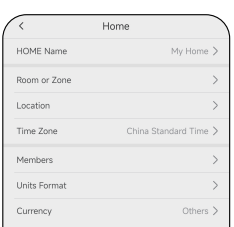
4.12 Home Managment

RainPoint supports adding family members and sharing your home device to achieve co-management the home irrigation system with your family.

1. Tap **Me** at the bottom of the APP home screen.
2. Select **HOME Management**. You can set the current home or create a home.
3. Set your **HOME Name, Room or Zone, Location, Time Zone, Members, Units Format and Currency**.







4.13 Other Setting

How to reconnect the controller?

Press and hold the controller's **"BT"** connection button until the indicator light blinks rapidly and the controller re-enters into pairing mode.

5. TROUBLESHOOTING

Problems	Possible Factors	Solutions
Controller disconnection.	• The phone is too far away from the device. • The device battery is low.	• Please move the device closer to the phone and try connecting again. • Replace with new 4*AA alkaline batteries.
Can't open the valve.	The wires at the connection are loose.	Tighten the connection between the controller wire and the valve wire.
Plans not executed on time.	Activate rain delay function.	Check if the rain delay is set.

6. WARRANTY

RainPoint provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

- Warranty service can only be performed by our authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to us, or our authorized service center.
- To receive warranty service, the purchaser must contact with RainPoint nominated service center for the problem determination and service procedure.

Thank you for your choice of RainPoint products!

7. FCC STATEMENT (FCC ID: 2AWDBHIC406B)

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.

FCC Warning: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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, 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

8. CUSTOMER SUPPORT

If you find it difficult to set up and want to watch the setting tutorial video, please subscribe to our channel RainPoint on YouTube.

Or scan the QR code to visit the RainPoint channel on YouTube quickly.

If the app and the user manual don't have what you're looking for, and need some help about Rainpoint, please contact us by
LOT NO.: XXXXXX (on the back of the device)

Made in China





Need Help ?

Scan the QR code for more help.

or Email:
support@rainpointonline.com

6. Warranty Policy

RainPoint provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship. You can get an extra two years of extended warranty by registering your product on our website www.rainpointonline.com.