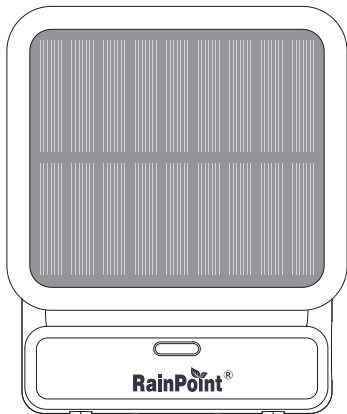


USER MANUAL

Smart Solar Irrigation System

Model No. HTP115FRF-V2

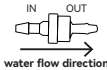


Welcome to the **RAINPOINT** family! Please read the manual before use to learn about the features and functions.

Contents

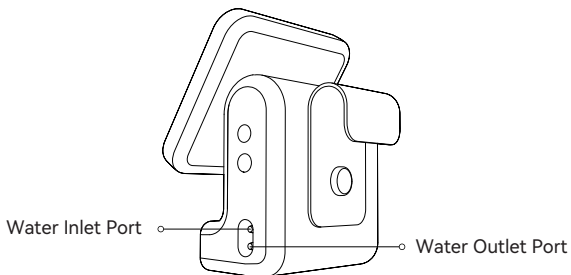
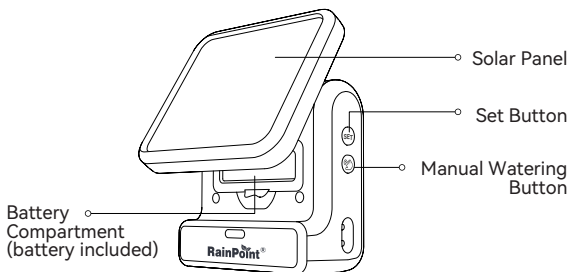
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1. Box Contents

Accessories Included	Name	PCS	Function
	USB Cable	1	Charge the battery
	Tubing	1	Tubing for Main Line Len: 10m/32.8 Ft Inner diameter: 1/6 in. (4mm)
	Tubing	1	Tubing for Branch Line Len: 3m/9.8ft Inner diameter: 1/8 in. (3mm)
	Filter	1	Filter impurities from water
	Tubing End Plug	3	Stop water flow at the end of the pipe
	Micro Drip Emitter	10	Insert into soil to water the plant root directly
	T Barb Fitting	10	Split water flow and connect pipes
	Cross Barb Fitting	1	Split water flow and connect pipes
	Anti-Siphon Valve	1	Prevent siphoning and backflow

2. Introduction

2.1 Product Overview



2.2 Specification

- **Max. Pumping Head:** 13.3ft (4m)
- **Max. Water Flow Rate:** 750ml / min
- **Working Pressure:** ≥ 0.3 bar (4.3 PSI)
- **Working Temperature:** 37°F~122°F (3°C~50°C)
- **WiFi Frequency Band:** 2.4GHz only
- **Waterproof Level:** IP54
- **Battery Type:** 2600mAh rechargeable lithium-ion battery (included), charging by USB charging cable (included) or top solar panel.
- **Solar Panel Output:** 5V 1.5W

2.3 Product Features

- Real-time to set and monitor irrigation plan by remote control via app
- Built-in water pump for automatic watering
- 24h/48h/72hr rain delay function
- Efficient solar power supply
- Water shortage alert
- No water tap needed
- Water up to 20 plants
- Flexible micro-drip irrigation system
- Full DIY irrigation system, coming with different accessories

3. Pairing and Installation



Tips: Please scan the QR code or search the link to access the video to easily and quickly view the operational details of the device.

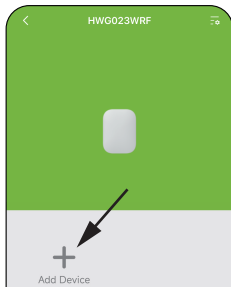
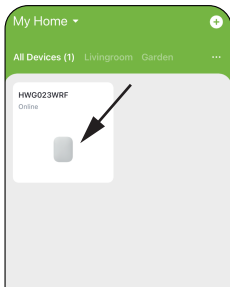
Video Address:

https://www.youtube.com/watch?v=OLDCvBNOz_0&t=4s

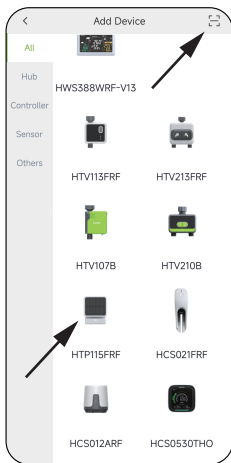
3.1 Pair pump with hub

In order to remote control and manage irrigation plans, this pump needs to be paired with hub. Please refer to hub user manual to download app and connect the hub with WiFi network first.

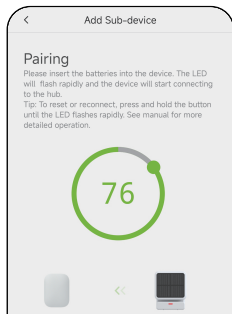
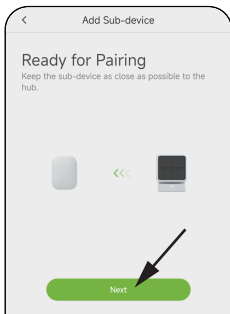
1. After the hub is successfully connected with WiFi, select **+** button on app home page or click **"Add Device"** on hub home page.



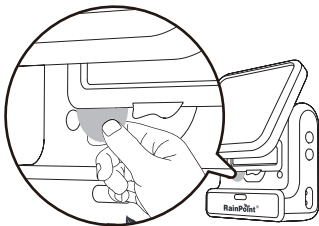
2. Then select **"HTP115FRF"** or tap  icon on Add Device page, and scan QR code below.



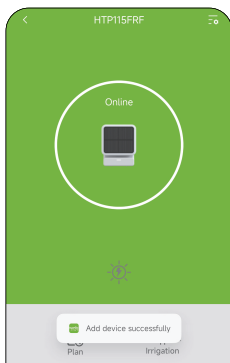
3. Click Next and move onto Pairing page.



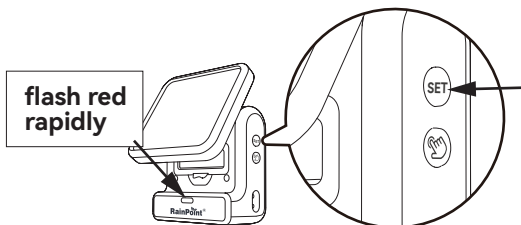
4. Remove the insulation sheet from battery compartment. Then the LED light will flash red rapidly and the pump will start pairing automatically.



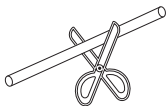
5. Now the pump has been successfully paired with hub and added on your app. You can move on to install the pump and set up your irrigation plans.



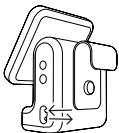
- !** If failed to pair automatically, you can press and hold the SET button until you see the red LED light to activate pairing mode manually.



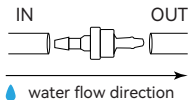
3.2 Pump Installation



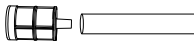
- ① Plan your drip watering layout and cut the hose to desired length.



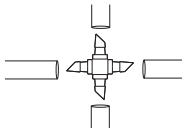
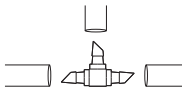
- ② Connect the hose to water inlet and outlet.



- ③ Connect anti-siphon valve to water outlet hose and close to pump. It will help prevent backflow and siphoning. (Note: The valve must be installed correctly in accordance with the flow direction.)



- ④ Insert filter to the other end of water inlet hose, and put into water container.

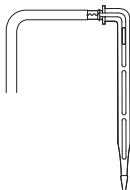


5

Connecting the suitable barb fitting:

1) When you need to connect the hose while splitting to two ways, **you can use the "T" barb fitting.**

2) When you need to connect a hose while splitting to other 3 ways, **you can use the cross barb fitting.**



6

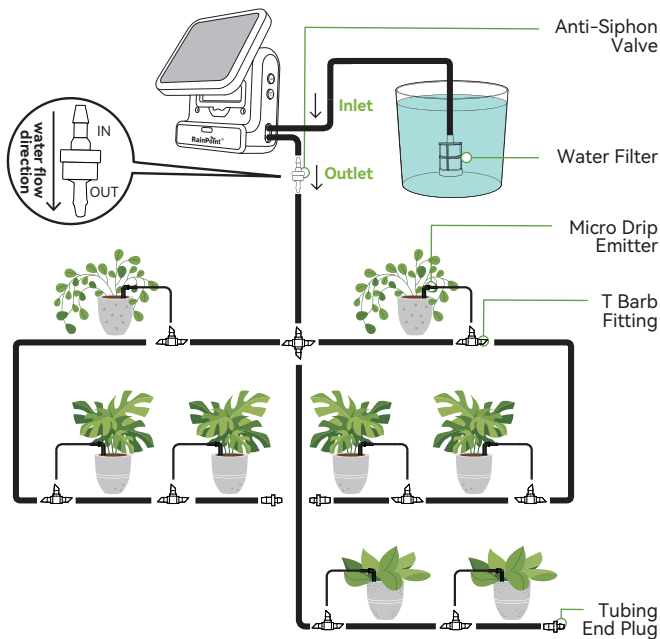
Connect micro drip emitter to the end of the pipe for each branch to provide targeted watering at the base of each plant.

Tips: Loosen the soil first, then insert emitters at least 3 inches deep, which will help water reach plant roots.

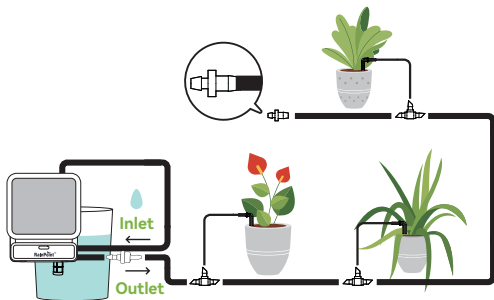


7

Install tubing end plug after water flows out from the end of the pipe to get rid of air left in the pipe.



Tips: Install tubing end plug after water has flowed from the pipe end.



Please keep the whole system horizontal or above water container.



⚠ Pump is higher than water container over 9.8ft (300cm).



⚠ Pump is lower than water container.

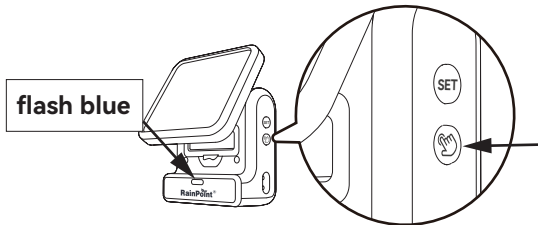


⚠ Plants are over 9.8ft (300cm) higher than the pump.

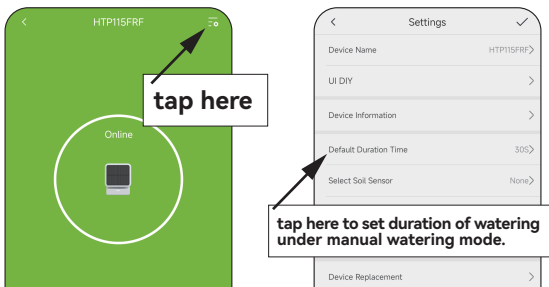
3.3 Manual Watering

Please quick test the pump by manual watering before first use.

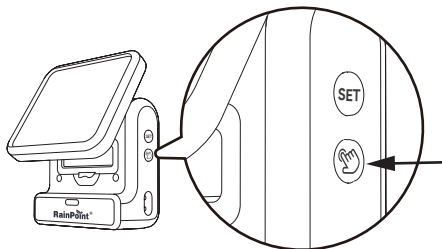
1. Press the  button once to activate manual watering. The LED light will flash blue during manual watering process.



2. The pump will water for 30 seconds, or for the duration you set as the Default Duration Time on your Home app.

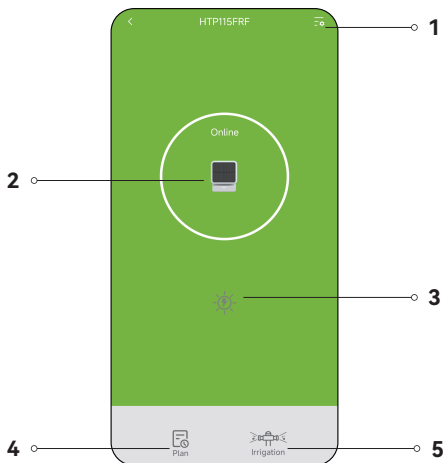


3. To stop watering sooner, press the  button to end the watering session.



4. app Features and Functions

4.1 Pump Home Page



1. **Settings:** Click to check settings for the pump
2. **Pump Status Icon:** Show the pump working status
3. **Solar indicator:** The icon will light up when battery is charged via solar power
4. **Plan:** Click to manage and monitor your watering plans
5. **Irrigation:** Click to set watering duration of temporary irrigation

4.2 Pump Settings

Tap  on the top right corner of pump home page to see the settings.

Device Name

Edit the name of the pump

UI DIY

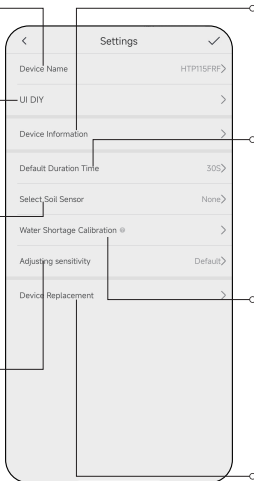
Choose front color & background picture

Select Soil Sensor

Choose RainPoint smart soil sensor you would like to connect to the pump

Adjusting Sensitivity

Adjust the sensitivity level if water shortage alert is too sensitive or not sensitive enough



Device Information

Check Device ID, model #, battery level and firmware version

Default Duration Time

Set default watering duration from 10s to 60 mins per your desired

Water Shortage Calibration

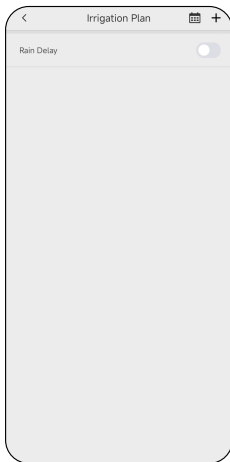
Calibrate the current water state of the pump as the water shortage level

Device Replacement

Replace the pump with a new one while keep the irrigation plans and sensor data record from the old pump

4.3 Plan Setting

Select Plan  and start to create a new auto-watering plan.



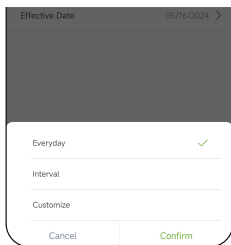
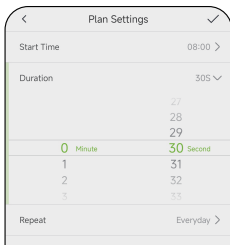
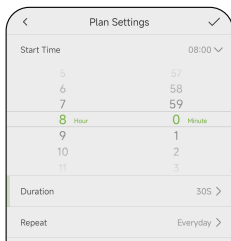
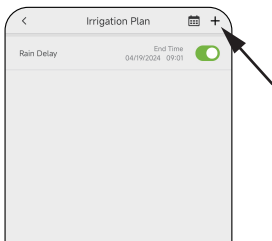
Set a watering mode first:

Press the icon  on the top right corner of the "Irrigation Plan" page to set irrigation plan.

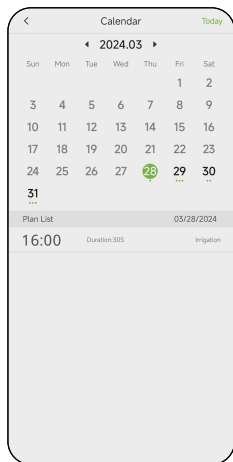
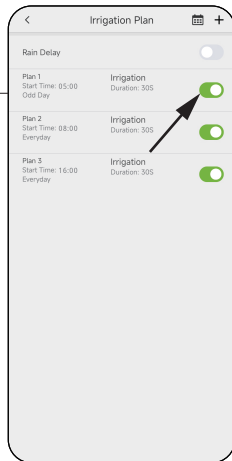
Start Time: Set the time when to start the plan.

Duration: Set how long to water for the watering plan.

Repeat: Set the watering frequency for the plan.



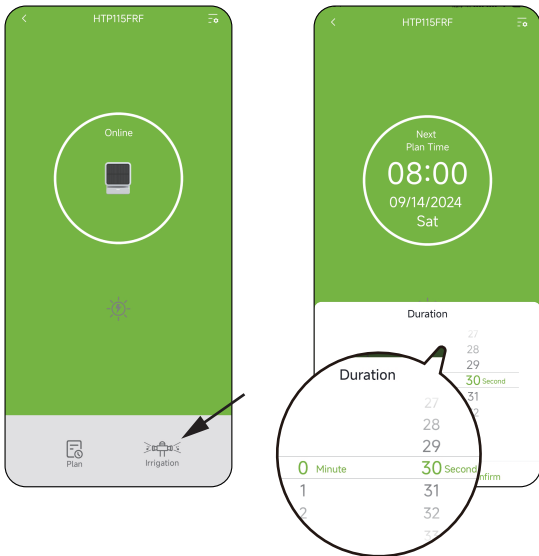
Once you're done with the setting, press the top right button to save the plan and you will see a plan overview list. Use the button on the right to turn on or off the plan. You can create up to six irrigation plans per your desired.



You can also tap  on the top right corner to access **Plan Calendar** for checking the overview of all the plans' schedule.

4.4 Temporary Irrigation Plan Setup

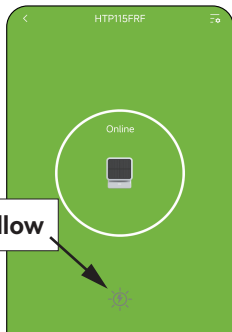
Tap **Irrigation** on pump home page to manually turn on a temporary irrigation plan with a settable time.



Note: When you turn on a temporary irrigation plan, if there is a pre-set plan running now or there will be a plan starting during temporary irrigation plan, the schedule pre-set plan will be skipped for this time.

4.5 Solar Charging Notice

When the pump is getting charged by solar power, the solar indicator icon on the app will turn yellow.

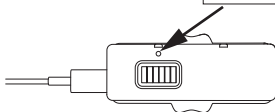


4.6 Battery Charging

This solar water pump comes with a 2600mAh rechargeable lithium-ion battery. It could be charged either via solar power or by using the included usb cable.

To charge via usb cable, please remove the battery from battery compartment and plug in. The indicator will turn red during charging and turn blue when it's done. The battery takes about 2h to be fully charged by using usb cable.

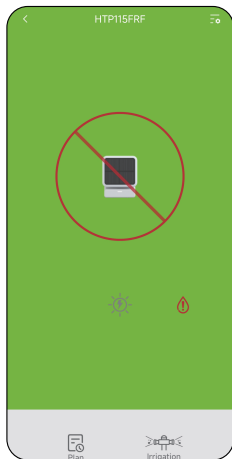
- turn red when charging
- turn blue when fully charged



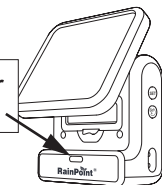
4.7 Water Shortage Alert and Low Power Alert

4.7.1 Water Shortage Alert

When the pump is short of water, you will see water shortage alert icon on pump home page. The LED light will also flash red twice for every 4 sec and stop after 5 min.



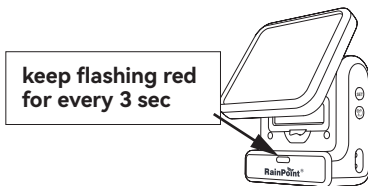
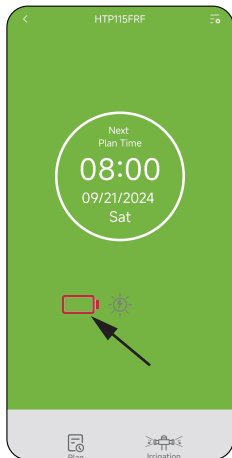
flash red twice for
every 4 sec



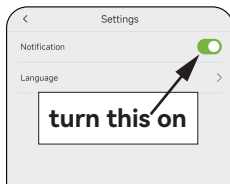
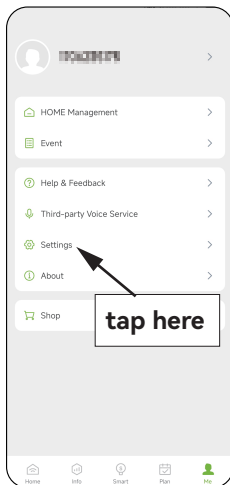
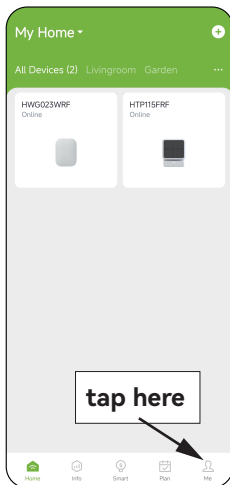
4.7.2 Low Power Alert

When the pump is short of power, you will see low power alert icon on pump home page.

The LED light will also keep blinking red for every 3 sec.



Note: You can also turn on pop-up / push notification on app to keep you alert.



5. Troubleshooting

Problem	Possible Reason	Solution
Pump can't connect with hub	• Too far from the hub or too many obstructions between pump and hub. • Miss the searching time during connecting. • The hub firmware version is too low.	• Stay close with the hub when connecting the pump. • Try to reconnect the pump and press & hold the SET button after start pairing mode until red light blinking. • Go to pump's Settings Page, click "Device Information" to update firmware version.
Pump no working or can't pump water from container	• Impurities get into the pump and damage the pump. • Pump broken due to falling or during transportation.	If the pump can't work, or can't pumping water, please contact customer service from where you buy in the warranty time.
Water leakage from the pump inlet or outlet port	The pipe is not tightly inserted or not fully inserted.	Re-install the water pipe to make sure the pipe end is fully and tightly insert to the inlet and outlet port.

Problem	Possible Reason	Solution
Weak water flow comes out	• Too far away from pots and water container. • Air left in pipe.	• Move the pump closer to the plants and reduce the pipe length. • When set up the watering system, try to put on the tubing end plug after water has flowed from the pipe end.
Hub can't connect	• Not using 2.4GHz Wi-Fi. • Incorrect Wi-Fi password. • Too far from the router or too many obstructions that blocks the signal.	• Check and use 2.4GHz or dual band Wi-Fi to connect. • Check again the password when connecting • Try to stay close with the router when connecting the hub.

6. Precautions

- Please make sure to use 2.4GHz band Wi-Fi to connect to this product.
- Ensure that the solar pump can be fully illuminated for not less than one hour per day.
- Please tighten the pipe to the inlet and outlet when installing to avoid leakage.
- Try to place the pump higher than the water source to avoid siphon phenomenon.

7. 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



**18650 Lithium Ion
Rechargeable Battery
(3.7V 2600mAh)**



**ÉLÉMENTS D'EMBALLAGE
À SÉPARER ET À DÉPOSER
DANS LE BAC DE TRI**



**This paper
box is recyclable
and reusable**



FR
**Cet appareil
et sa batterie
se recyclent**



**À DÉPOSER
EN MAGASIN**



**À DÉPOSER
EN DÉCHÈTERIE**

OU

Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !



Made in China



8. FCC Statement (FCC ID:2AWDBHTP115FRF)

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.

9. 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 you encounter any issues during setup, please feel free to email our customer support team.

Email: support@rainpointonline.com

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.