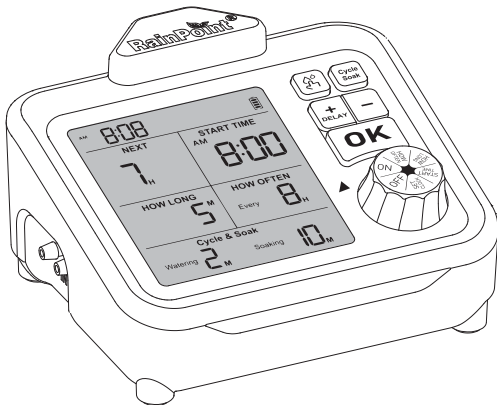


USER MANUAL

Indoor Irrigation Kit

Model No. IK153



Free Hotline

US: +1 833-381-5659
DE: +49 800-182-0576
UK: +44 800-808-5337



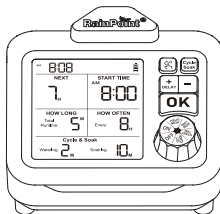
Email

service@rainpointonline.com

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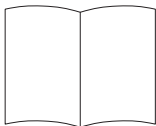
1. Box Contents



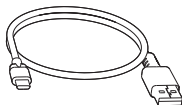
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3

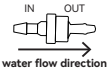


2



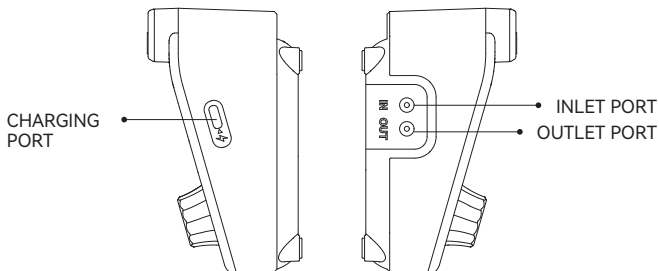
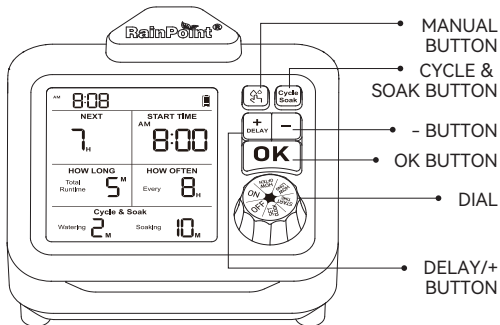
4

1. 1 X IK153 Indoor Watering Pump
2. 1 X User Manual
3. 1 X Detachable Back Hook
4. 1 X USB Type-C Cable
5. 1 X Accessories Kit (See next page)

Accessories Included	Name	PCS	Function
	Tubing	1	Tubing for Main Line Len: 15m (49.2 ft) Inner diameter: 4mm (1/6")
	Tubing	1	Tubing for Branch Line Len: 5m (16.4 ft) Inner diameter: 3mm (1/8")
	Filter	1	Filter impurities from water
	End Plug	3	Stop water flow at the end of the tubings
	Micro Drip Emitter	20	Insert into soil to water the plant root directly
	T-shaped Barb	20	Split the water flow and connect the 4mm (1/6") tubing to the 3mm (1/8") tee
	Cross Barb	1	Split water flow and connect tubings
	Anti-Siphon Valve	1	Prevent siphoning and backflow
	Zip Tie	20	Secure and organize tubings

2. Introduction

2.1 Product Overview



- **Dial:** Rotate the dial to set watering schedule, then turn to save.
- **OK Button:** Confirm and proceed to the next step.
- **MANUAL Button:** Enter manual watering settings.
- **+/DELAY Button:** Use "+" to adjust or set the time. Press and hold "DELAY" to activate Rain Delay.
- **- Button:** Use "-" to adjust or set the time.
- **Cycle & Soak Button:** One-click to activate Cycle & Soak mode.



DIAL POSITION	FUNCTION
SET CLOCK	Switch 12H/24H and set the current time
START TIME	Set the first irrigation start time
HOW LONG	Set the watering duration
HOW OFTEN	Set the watering frequency
ON	The timer operates according to customized schedule
OFF	Turn off all watering

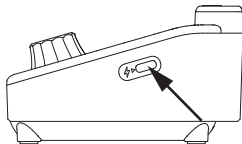
2.2 Specifications

- **Working Temperature:** 3°C–50°C (37°F–122°F)
- **Power By:** Type-C, 5V/1A
- **Max Flow Rate:** 7.93gal/Hrs (30L/Hrs)
- **Max. Head:** More than 118in (3m)
- **Battery Capacity:** 2000mAh

3. Installation

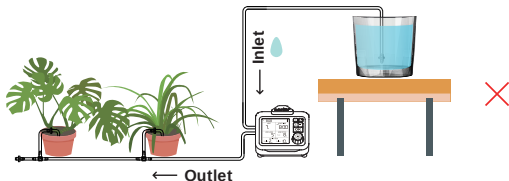
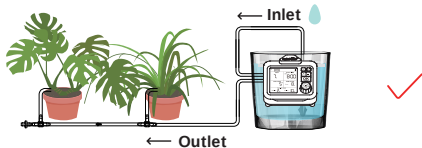
3.1 Pump Charging

- 1) Insert the provided Type-C cable horizontally into the TYPE-C port on the pump.
- 2) Connect the other end to a DC 5V 1A adapter (not included).
- 3) When fully charged, the battery icon will stay .

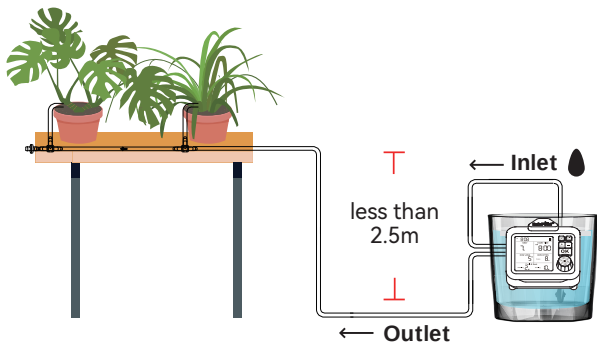


3.2 Pump Placement and Height Difference

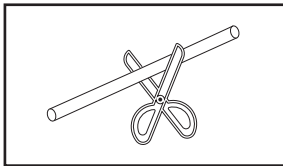
- Do not place the pump below the water level in the container. This effectively prevents siphoning, which can cause leakage or over-watering.



- Applicable height difference ≤ 2.5 m (8.2 ft)

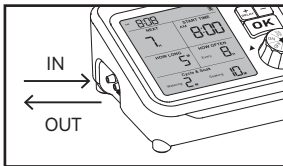


3.3 Tubing DIY Connection



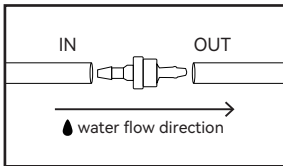
Step 1:

Plan the drip irrigation layout and cut the tubing to the desired length.



Step 2:

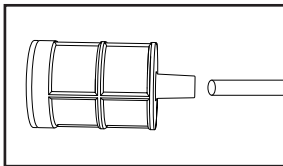
Connect the 4mm (1/6") tubing to the water inlet and outlet ports.



Step 3:

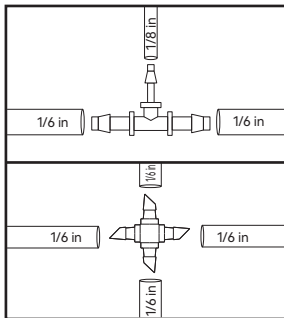
Attach anti-siphon valve to outlet tubing near the pump. This helps prevent backflow and siphoning.

(Note: Ensure the valve is installed in the correct flow direction.)



Step 4:

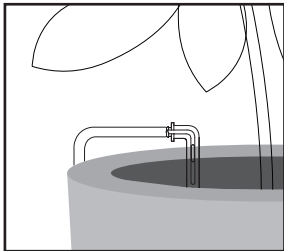
Insert the filter into the other end of the water inlet tubing and place it into the water container.



Step 5:

Connecting the Appropriate Barb Fittings:

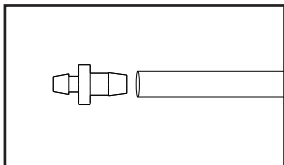
- 1) To split a 4mm (1/6") tubing into two directions, use a T-shaped barb fitting.
- 2) To split the tubing into three directions, use a cross barb fitting.



Step 6:

Connect a micro drip emitter to the end of each branch tubing to deliver targeted watering at the base of each plant.

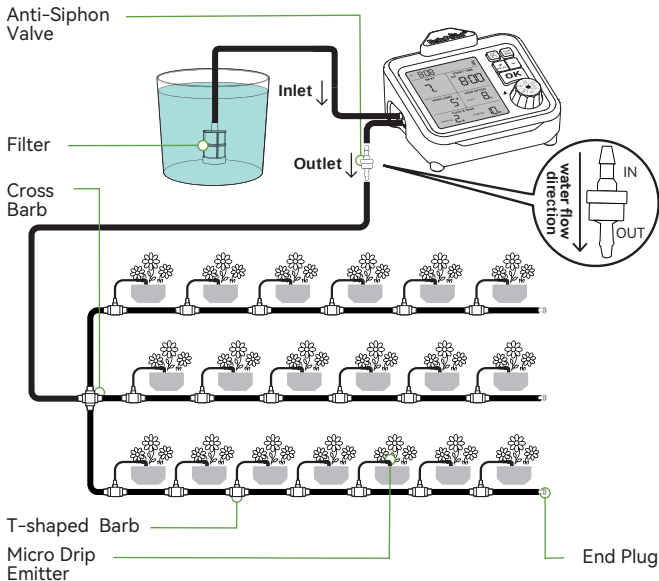
Note: Loosen the soil before inserting the emitter at least 8cm (3") deep. This helps water reach the plant roots effectively.



Step 7:

After water starts flowing from the end of the tubing, install the end plug to release any remaining air from the line.

Connect components in the following order:



4mm (1/6")

3mm (1/8")

3.4 Equipment Testing

Before use, test the pump to ensure it is working properly:

- Turn the dial to **"ON"** and short-press the  button to start the pump and water will be delivered to the plants.
- Check all tubing connections for leaks and tighten them as needed to stop any leakage.

4. Device Settings

4.1 Set Clock

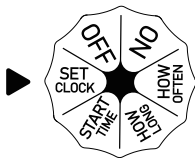
- 1) Turn the dial to **SET CLOCK**.
- 2) Use **"+" or "-"** button to select 24-hour or 12-hour format and short press **"OK"** button to save and proceed.
- 3) Set hours using **"+" or "-"**, short press **"OK"** to switch to minutes.
- 4) Rotate the knob to save the time and proceed.

24H	

(24-hour)

12H	

(12-hour)

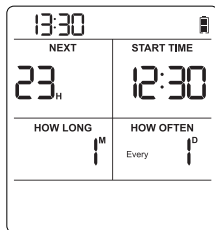


Note:

- After setting minutes, pressing **OK** button again returns to hour format setting.
- The timer continues running while adjusting other settings.

4.2 Start Time

- 1) Turn the dial to **START TIME**.
- 2) Use the "+" and "-" buttons to set the desired watering start time.
- 3) Press the "OK" button to switch between hours and minutes.
- 4) Turn the dial clockwise to save the changes for this step and proceed to the next step.

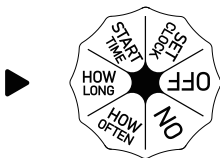
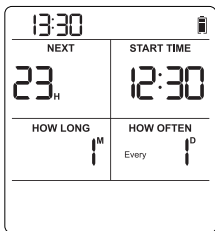


Note: After setting the minutes, pressing **OK** button again returns to the hour setting.

For the 12-hour format, differentiate **AM** and **PM** for the same clock time.

4.3 Set Watering Duration

- 1) Turn the dial to **HOW LONG**.
- 2) Use the "+" and "-" buttons to select the desired watering duration.
- 3) Turn the dial clockwise to save the changes for this step and proceed to the next step.



Note: When the watering duration is 2 minutes or longer, the **Cycle & Soak** option is automatically activated, and the indicator appears at the bottom of the screen.

4.4 Set Cycle & Soak Mode

What is Cycle & Soak

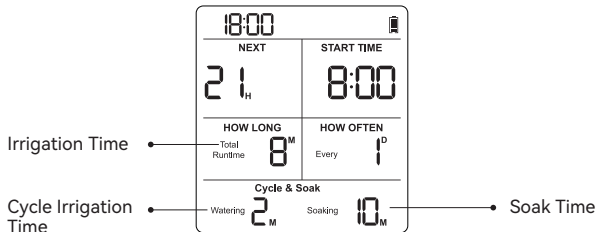
The **Cycle & Soak** divides the total water volume for one irrigation into several small portions, applied intermittently in a "**small amounts, multiple times**" manner. This allows the soil to better absorb and distribute the water. Three option modes are available (Mode 1, Mode 2, OFF Mode).

Advantages of Cycle & Soak

- 1) **Enhanced Water Conservation:** Eliminates surface runoff, ensuring efficient water utilization by plants.
- 2) **Improved Irrigation Uniformity:** Ensure consistent water distribution across different areas, promoting even plant growth.
- 3) **Improved Soil Structure:** Enhances soil permeability and stability.
- 4) **Promotes Nutrient Absorption:** Facilitates better uptake of nutrients by plant roots.

Set Cycle & Soak Mode For Irrigation

- 1) **Set the Duration:** Start by setting the HOW LONG duration to at least 2 minutes (Max 20 minutes).
- 2) **Activate the Cycle & Soak Mode:** Then press the Cycle & Soak button to switch to the preset cycle & soak mode. It can select from three options (Mode 1, Mode 2, OFF Mode).
- 3) Turn the dial clockwise to save the change and proceed to the next step.



Cycle & Soak Mode	Screen Display	Irrigation Duration	Soak Duration	How Long Setting
OFF	--:--			20sec-20mins
Mode 1	1M:5M	1mins	5mins	≥ 2minutes
Mode 2	2M:10M	2mins	10mins	≥ 4minutes

Note:

- Re-entering the **HOW LONG** setting defaults to the previous settings.
- The **Cycle & Soak** button works only in **HOW LONG** and **MANUAL** modes.
- To disable the **Cycle & Soak** mode, turn the dial to "**HOW LONG**" and press the **Cycle & Soak** button until "**OFF**" appears. The pump will then operate cyclically according to the duration and frequency set in "**HOW LONG**" and "**HOW OFTEN**".

Case on Time Calculation for the Cycle & Soak

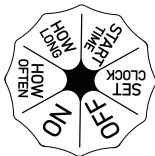
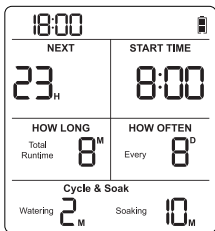
Cycle&Soak Mode	Start Time	How Long	How Often	Total Irrigation Time	Irrigation End Time	Next Start Time
Mode1 (1:5)	8:00 AM	4mins	1 day	19mins	8:19 AM	8:00 AM the next day
						
Mode2 (2:10)	10:00 AM	7mins	1 day	37mins	10:37 AM	10:00 AM the next day
						
OFF (---:--)	8:00 AM	15mins	1 day	15mins	8:15 AM	8:00 AM the next day

Note:

- **How Long** is the watering time set for each cycle. (Total sum of cyclic watering time)
- **Total Irrigation Time** is the total duration required for the entire watering process. (Watering time per cycle+soaking time per cycle)

4.5 Set Watering Frequency

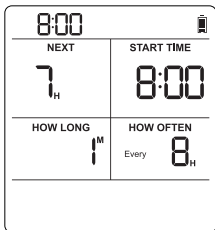
- 1) Turn the dial to **HOW OFTEN**.
- 2) Use "+" and "-" buttons, to set the watering frequency. Options include every 8H, 12H, or 1-30 days.
- 3) Turn the dial clockwise to save the changes for this step and go to next step.



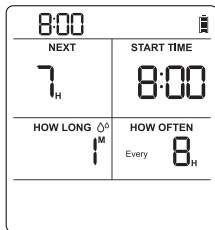
Note: When re-entering this setting, previous frequency remains unchanged.

4.6 Automatic Watering

Turn dial to **ON**, the device will automatically run the programmed schedule.



During operation the remaining watering time is shown and an icon indicates active watering.

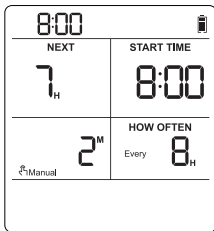


Note: Pressing any button or rotating the dial during a scheduled watering cancels the current cycle while keeping the overall program unchanged.

5. Additional Functions

5.1 Manual Watering

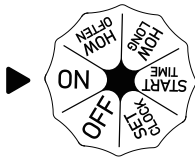
- 1) Turn the dial to **ON**.
- 2) Press the **"MANUAL"** button to enter Manual Watering Mode.
- 3) Use the **"+"** or **"-"** buttons to adjust the manual watering time.
- 4) Press the **"OK"** button to start manual watering.
- 5) If no operation occurs within 5 seconds, the system exits Manual Watering Mode.



Note: After setting HOW LONG in manual mode, the Cycle & Soak mode can be turned ON or OFF as needed. For details, refer to the **Set Cycle & Soak Mode For Irrigation** section.

5.2 Rain Delay

- 1) Turn the dial to **ON**, press and hold the **"DELAY"** button for 3–5 seconds to activate the rain delay function.
- 2) The default delay period (24H) will appear on the screen. Use the **"+"** or **"-"** buttons to select a delay period of 24H, 48H, or 72H.
- 3) Press **"OK"** button to confirm and start delay. All watering schedules will be paused during this period.
- 4) To cancel the rain delay and resume the programmed schedule, press and hold the **"DELAY"** button again for 3–5 seconds.



Note:

- Please press **OK** button after selecting the rain delay time to confirm and start the delay program.
- If no confirmation is made, the setting will automatically exit after the screen flashes for 3–5 seconds.

5.3 OFF

- 1) Turn the dial to **OFF** to stop all watering schedules for an extended period. (All programmed settings will be saved.)
- 2) In **OFF** mode, the device will not operate automatically. (The screen will display "**OFF**" in large letters.)

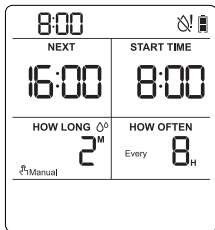
Note: To resume automatic watering, turn the dial to **ON** to restore programmed watering plan.

5.4 Battery Status Indicator

- 1) When the low battery  indicator appears on display, the pump will not operate. Recharge the pump promptly.
- 2) The battery level is not updated during irrigation, but low power will be detected. If the voltage drops below 3.7V during irrigation, the irrigation task will be terminated. Please recharge the device.

5.5 Water Shortage Alert

- 1) Each pump start includes a 20-second monitoring period and only the last 5 seconds check for low water.
- 2) If low water is detected:
 - The low-water icon flashes and remains on until water is detected at the next pump start.
 - The current schedule is skipped and the next scheduled operation proceeds as planned.



6. Troubleshooting

Problem	Possible Reason	Solutions
Uneven Water Flow	If the water source container is too far or the tubing is too long, pumping efficiency may be reduced.	Position the pump at a suitable location and check that all tubing connections are correct.
Difficulty Inserting or Removing Tubing	Due to the material design for enhanced durability, the tubing may be difficult to insert or remove.	Place the end of the tubing in hot water for 10 seconds, or apply a small amount of vegetable oil to the tubing end before connecting.
Device Does Not Water	The watering schedule could not be executed on time due to insufficient water at the inlet.	Check whether the water source container at the inlet is empty.
	The pump was unexpectedly powered off, causing the watering schedule to be cleared.	The watering schedule needs to be reset.

7. Precautions

- Please ensure the tubing is securely connected to the inlet and outlet ports during installation to prevent leakage.
- Position the pump higher than the water source to avoid siphoning.

8. Warranty Policy

RainPoint provides a 1-year warranty against manufacturing defects in materials and workmanship from the date of purchase.

During the warranty period, products found to be defective under normal use and service, as determined solely by RainPoint, will be replaced free of charge.

To request warranty service, email the order ID to

service@rainpointonline.com. A response will be provided within 24 hours.

9. Customer Support

If there are still issues with setup, search for "**RainPoint**" on YouTube for installation videos.

If the user manual does not contain the required information or further assistance is needed, please contact us before returning the product.

Be sure to provide the LOT NO. of device.

LOT NO.: XXXXXX

EC REP

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Email: VIAJEELE@outlook.com

UK REP

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Manufacturer/Hersteller/Fabricant/Produttore/Fabricante:

FUJIAN BALDR TECHNOLOGY COLTD

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