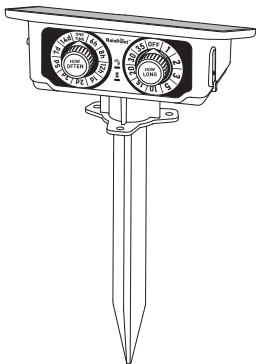


USER MANUAL

Outdoor Solar Automatic Drip Irrigation Pump Kit



Model No. IK160



Email: service@rainpointonline.com



US Hotline: +1 833-381-5659
DE Hotline: +49 800-182-0576

UK Hotline: +44 20-4628-3036

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WARM TIPS

PLEASE READ BEFORE USING



Make sure the tubing is fully inserted and firmly connected to the IN and OUT ports to prevent leaks.



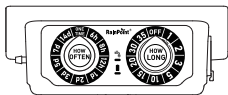
Position the pump higher than the water source to avoid siphoning.



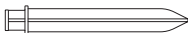
Only use with clean cold water.

1. INTRODUCTION

1.1 Package Contents



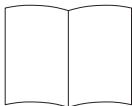
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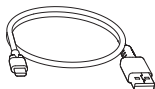
2



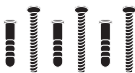
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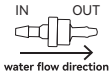


6

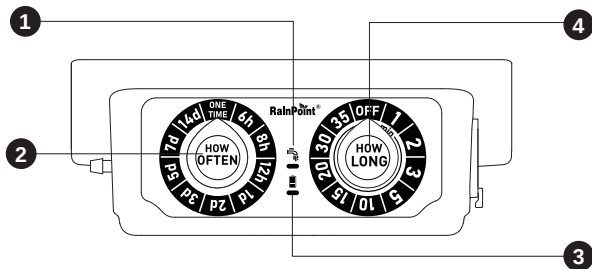
1. 1 X IK160 Outdoor Watering Pump
2. 1 X Ground Stake
3. 1 X Mounting Bracket
4. 1 X User Manual
5. 1 X USB-C Cable
6. 3 X Expansion Screw Sets
7. 1 X Detachable Back Hook
8. 1 X Accessories Kit (See next page)



7

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

1.2 Product Overview



1 Watering Status Indicator

Flashing green: Adjusting frequency or duration

Solid green: Settings confirmed

Flashing green after confirmation: Watering or pump running

Flashing red: OFF status—schedule cannot be set

2 How Often Knob

Sets watering frequency

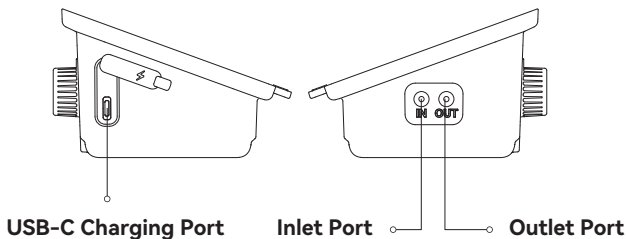
3 Power/Charging Indicator

Flashing green: Charging

Red flashes twice: Battery depleted, unit cannot operate

4 How Long Knob

Sets watering duration (OFF to turn off)



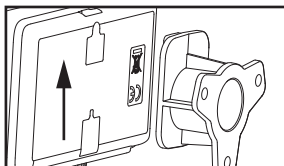
1.3 Specifications

Parameter	Value
Working Temperature	37-122 °F (3-50 °C)
Solar Panel Output	5V 1.5W
Charging Input	USB-C, 5V/1A
Flow Rate	30 L/h
Max Head	9.8 ft (3 m)
Battery Capacity	2000 mAh
Waterproof Rating	IPX5

2. PRODUCT INSTALLATION

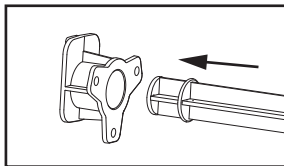
2.1 Pump Installation

2.1.1 Ground Stake Installation



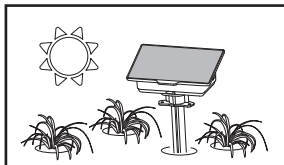
Step 1:

Align the mounting bracket with the slot on the bottom of the IK160 unit, then slide it upward until it clicks into place.



Step 2:

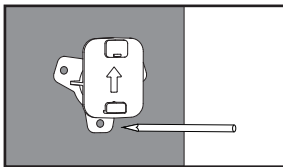
Insert the ground stake into the matching slot on the mounting bracket. Push it in fully and make sure it is secure.



Step 3:

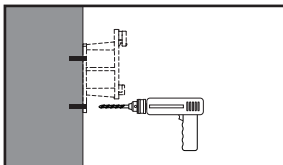
Insert the assembled unit into the ground in a suitable location with direct sunlight and minimal shading. Ensure the unit is stable.

2.1.2 Wall Mount Installation



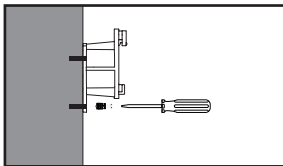
Step 1:

Mark the positions of the mounting holes on the wall.



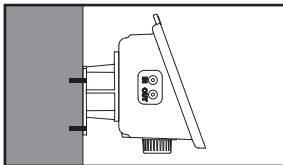
Step 2:

Drill holes at the marked positions.



Step 3:

Insert the wall anchors into the holes, then tighten the screws to secure the mounting bracket.
(3 expansion screw sets included)

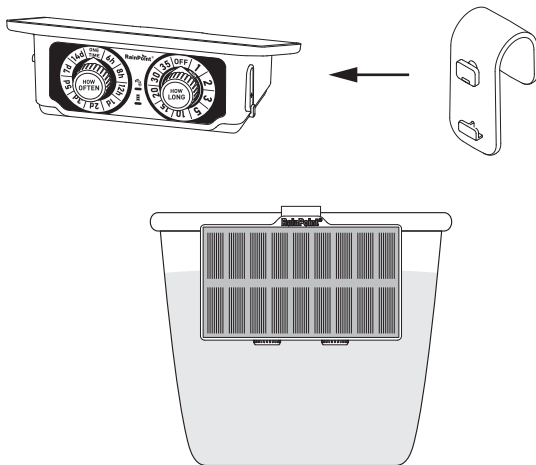


Step 4:

Align the IK160 pump with the mounting bracket slot, then slide it upward until it clicks into place.

2.1.3 Back Hook Installation

Align the back hook with the slot on the pump, then slide it upward until it clicks into place. Hang the pump securely on a stable edge or hook, and make sure it sits steady.



2.2 Pump Charging

This pump features an integrated solar panel for daily use. USB-C charging is also available when needed.

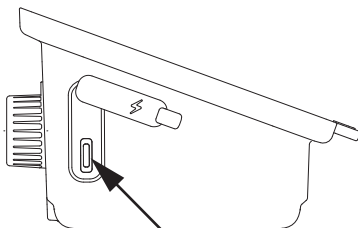
- **Solar Charging**

- 1) Insert the stake into the ground and place the pump where the solar panel can receive direct sunlight.
- 2) For best charging performance, keep the solar panel facing the sun and avoid shading.

- **USB-C Charging**

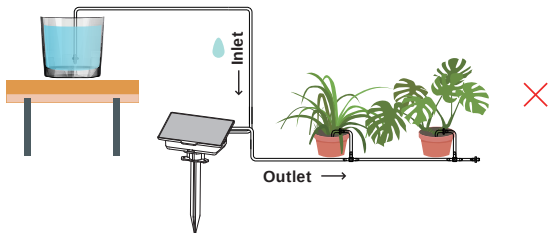
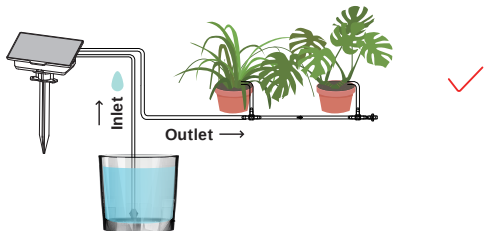
- 1) Plug the included USB-C cable into the USB-C port on the pump.
- 2) Connect the other end to a 5V/1A USB power adapter (not included).
- 3) When fully charged, the battery icon will stay .

Note: USB-C charging is recommended when sunlight is insufficient.

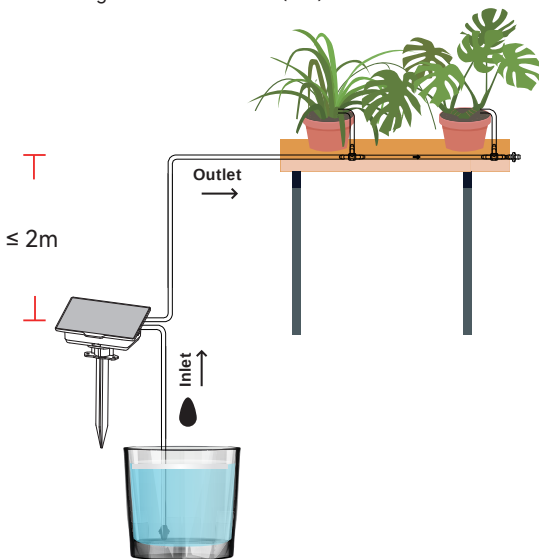


2.3 Pump Placement and Height Difference

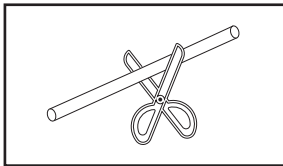
- Place the pump at or above the reservoir water level.
Do not place the pump below the water level.
This prevents siphoning/backflow and helps avoid leaks or overwatering.



- Maximum height difference ≤ 6.6 ft (2 m)

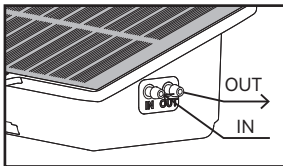


2.4 Tubing Connection



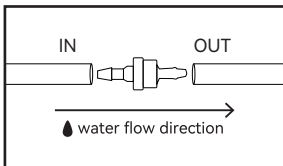
Step 1:

Plan the drip irrigation layout and cut the tubing to the required lengths.



Step 2:

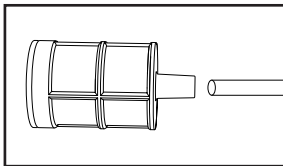
Connect the 1/6" (4 mm) tubing to the water inlet and outlet ports.



Step 3:

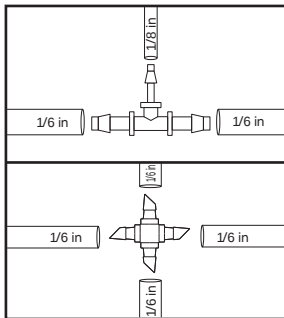
Attach the anti-siphon valve to outlet tubing near the pump. This helps prevent backflow and siphoning.

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



Step 4:

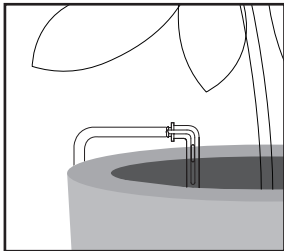
Attach the filter to the other end of the water inlet tubing, then place the filter into the water container.



Step 5:

Connecting the Appropriate Barb Fittings:

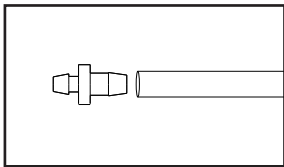
- 1) To split a 1/6" (4 mm) tubing into two directions, use a T-shaped barb fitting.
- 2) To split the tubing into three directions, use a cross barb fitting.



Step 6:

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

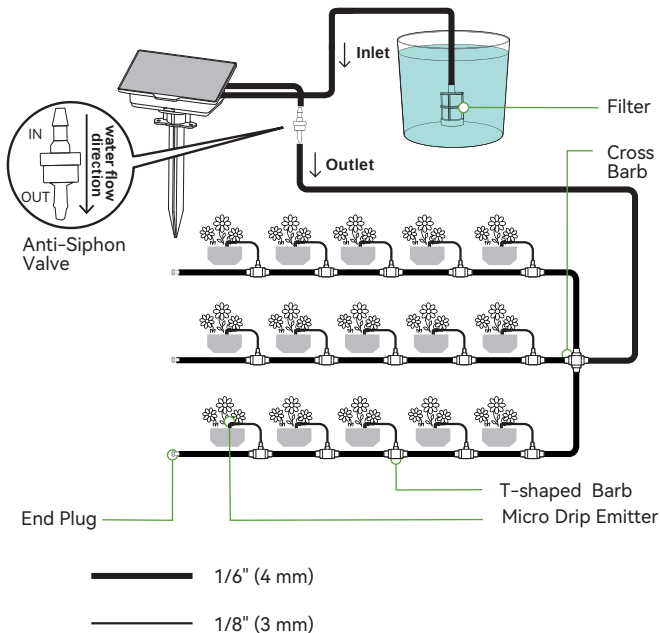
Note: Loosen the soil before inserting the emitter at least 3" (8 cm) deep. This helps water reach the plant roots effectively.



Step 7:

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

Connect components in the following order:



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

2.5 System Testing

Before first use, test the system to ensure proper operation:

- Set **HOW OFTEN** to a desired interval (or ONE TIME for a one-time test).
- Set **HOW LONG** to a desired watering duration (not OFF).
- Wait for confirmation: The watering status indicator flashes green, then turns solid green briefly. Watering starts automatically for the first cycle.
- Check all tubing connections and fittings for leaks. Reconnect the tubing fully and firmly if needed.

Optional: During the test, turn the **HOW LONG** knob to "OFF" to stop watering.

3. DEVICE SETTINGS

3.1 "HOW OFTEN" Setting

Turn the "**HOW OFTEN**" knob to set the watering interval.

Available interval options: ONE TIME, 6h, 8h, 12h, 1d, 2d, 3d, 5d, 7d, 14d.

ONE TIME mode: When the "**HOW OFTEN**" knob is set to **ONE TIME**, the plan runs as a one-time watering only (no repeat schedule). To start another one-time watering, rotate the "**HOW LONG**" knob to any other position and then rotate it back to the desired duration.

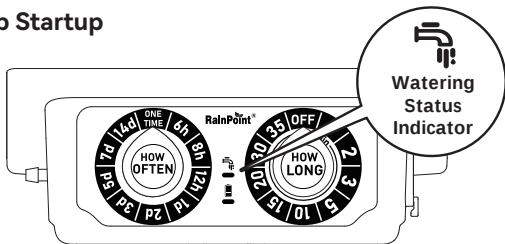
3.2 "HOW LONG" Setting

Turn the "HOW LONG" knob to set the watering duration.

Available duration options: OFF, 1m, 2m, 3m, 5m, 10m, 15m, 20m, 30m, 35m.

When the "HOW LONG" knob is set to **OFF**, the watering status indicator flashes red for 2 seconds to stop the pump. In **OFF** status, the schedule cannot be set.

3.3 Pump Startup



After interval and duration are selected, the watering status indicator flashes green 5 times quickly and then stays solid green for 2 seconds to confirm the plan. Rotating a knob during flashing will restart the confirmation count.

Once confirmed, watering starts immediately for one cycle. The pump will then water automatically at the preset interval.

Note: During watering, turn the **HOW LONG** knob to "OFF" to stop watering. Adjusting and saving new settings will stop the current plan and start the new plan.

4. TROUBLESHOOTING

Problem	Possible Causes	Solutions
Pump not working / No water from the container	• HOW LONG is set to OFF (plan cannot be saved). • Inlet filter is clogged or inlet tubing is not properly connected or submerged. • Pump damaged during shipping or handling.	• Set HOW LONG to a watering duration (not OFF), then set the plan again. • Clean the inlet filter and reconnect the inlet tubing firmly. • If still not working, contact customer service.
Water leakage from pump IN / OUT port	• Tubing is not fully inserted or not firmly connected.	• Reconnect the tubing and push it fully into the IN / OUT ports. • Cut the tubing end straight, then reconnect.
Weak water flow	• Pump is too far from the plants, or the tubing is too long. • Air remains in the tubing. • Height difference is too large.	• Move the pump closer to the plants and shorten the tubing if needed. • Let water run from the tubing end for a few seconds to release air, then insert the end plug to seal the line. • Keep the height difference within the specified limit.

Problem	Possible Causes	Solutions
Battery life is shorter than expected	• Not enough sunlight for solar charging. • Watering duration / frequency is higher than typical use. • The watering load is too high.	• Improve sunlight exposure. • Reduce watering duration / frequency if needed. • Reduce the load (shorter tubing / fewer outlets).
USB-C charging indicator is not flashing (not charging)	• Adapter/cable/connection issue. • Debris or moisture in the USB-C port.	• Use a 5V/1A adapter and try another cable/adapter to verify. • Check the port and make sure it is clean and dry before charging.

5. 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 your order ID to **service@rainpointonline.com**. A response will be provided within 24 hours on working days.

6. CUSTOMER SUPPORT

For setup difficulties, search "**RainPoint**" on YouTube to view installation videos. If the required information is not found in this user manual or if further assistance is needed, contact customer support before returning the product to the store. The local customer support team will provide a solution within 24 hours on working days and may arrange a replacement or refund where applicable.

For efficient support, please provide the following information:

- Order number
- LOT NO. of the device
- Brief description of the problem

Contact information:

US Hotline: +1 833-381-5659

DE Hotline: +49 800-182-0576

UK Hotline: +44 20-4628-3036

Email: service@rainpointonline.com

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EMAIL: VIAJEELE@outlook.com

UK REP

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ADDRESS: S211 92a Bury Old Road, Manchester, England, M45 6TQ

EMAIL: SUJEELECTRONIC@outlook.com

UK REP

Manufacturer/Hersteller/Fabricant/Produttore/Fabricante:

FUJIAN BALDR TECHNOLOGY CO.,LTD

ADDRESS/ADRESSE/ADRESSE/INDIRIZZO/DIRECCIÓN:

Floor 3, Building 2, No.71 Yangqi Road, Fuwan Industrial Area, Cangshan District, Fuzhou, China. 350008

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