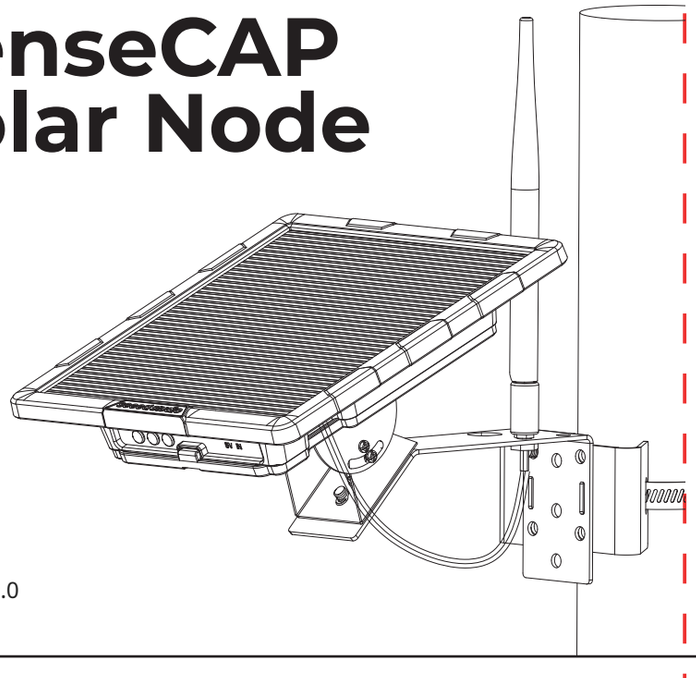
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Instruction Manual for

SenseCAP Solar Node



Version 2.0

Part List

No.	Pic	Name	P1	P1-Pro
①		SenseCAP Solar Node	√	√
		· 18650 Batteries x 4 (Built-in)		√
		· XIAO L76K GPS Module (Built-in)		√
②		Black Type-C Cable	√	√
③		User Manual	√	√
④		2dBi 868-915MHz Rubbe Rod Antenna	√	√
⑤		RF Cable: RP-SMA Male to RF-SMA Female	√	√
Mounting Brackets				
⑥		Connector	√	√
⑦		Universal Joint	√	√
⑧		Hoop Bracket	√	√
⑨		Hoop Ring	√	√
⑩		1/4-20 UNC Hex Head Machine Screw, 6 mm Long(Screw Pack)	√	√
⑪		Gasket M6*0.8m	√	√
⑫		Screw, Phillips Pan Head Machine, M6 × 14 mm, P1.0(Screw Pack)	√	√
⑬		Nut M6	√	√
⑭		Screw M4*6mm	√	√

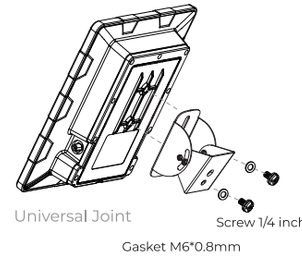
Hardware Installation

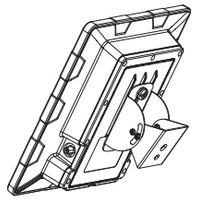
1. Check & Power On

The device is designed with a battery protection circuit.
So, when installing the battery for the first time or reinstalling it after removal, charge it via the Type-C port to activate the battery protection circuit. A brief charging signal suffices for activation.

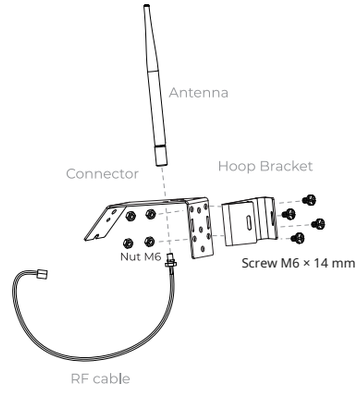
2. Install: Pole Mounting

Step1: Install ⑦ on the back of the Solar Node, together with two ⑩ and two ⑪.

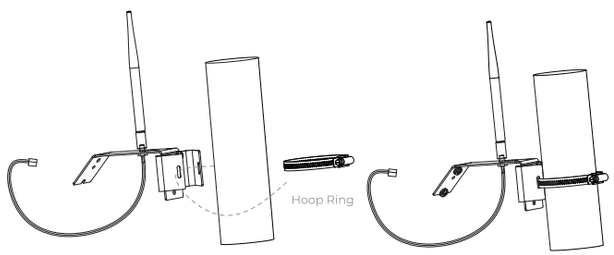




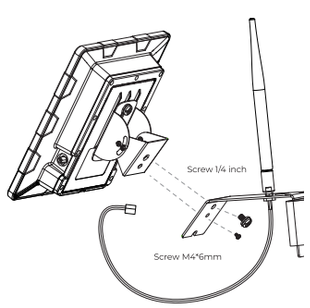
Step2: Take out ⑥ and ⑧, and connect them with four ⑫ and four ⑬. Then thread ⑤ through the corresponding small holes on ⑥ and connect it to ④.



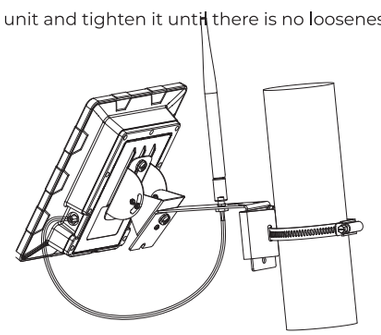
Step3: Use ⑨ to fix the bracket to a pole with a diameter of 70-100 cm.



Step4: Connect the Solar Node in 【Step1】 with one ⑩ and one ⑭.



Step5： Screw the rod-shaped antenna clockwise into the SMA interface of the main unit and tighten it until there is no looseness.



Safety Warnings

1.Operate within the specified temperature range; avoid extreme temperatures.
2.Do not install during thunderstorms, strong winds, or sandstorms. Prioritize personal safety.
3.Do not disassemble or modify the circuit; this may damage waterproofing or the device.
4.Keep the solar panel free of obstructions to ensure charging efficiency.

Battery Safety

1.Observe correct battery polarity (+/-) during installation.
2.Use only within specified operating conditions.
3.Do not puncture, incinerate, or submerge the built-in lithium battery.
4.Maintain battery charge above 50% during long-term storage.

Precautions

●No Overloading: Don't exceed the max load current to prevent device damage or safety hazards.
●Keep solar panel clean for best charging.
●Seal for Waterproofing: Despite its protection level, ensure the device is well - sealed to avoid internal short circuits.
●Regular Checks: Routinely inspect for loose connections, battery leakage, and panel damage; address issues immediately.
●Keep Kids Away: Keep children from this device with electrical parts to avoid electric shock risks.

Troubleshooting

Fault	Possible Cause	Solution
Can't power on	Not activated	For first-time or reinstalled battery, activate via Type-C with a short charging signal.
Device inoperable	Power not connected	Check wiring and power switch.
Solar panel not charging	Insufficient light	Adjust panel position for more sunlight.
Electrical device malfunction	Overload	Reduce devices or upgrade to higher - power ones.
	Voltage instability	Check voltage and use a stabilizer.

After-sales Service

❶ Warranty: 1-year coverage.

❷ Contact Us: If you encounter any problems, please feel free to contact us through the following methods:

Discord:

Email: support@sensecapmx.com

❸ For more **Product Info** and **Recommended Applications**, scan the QR code for the Wiki tutorial.

Wiki: