



WittSwitch Smart Plug Setup Guide

Model: AC1100



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1* Manual

Brief Introduction

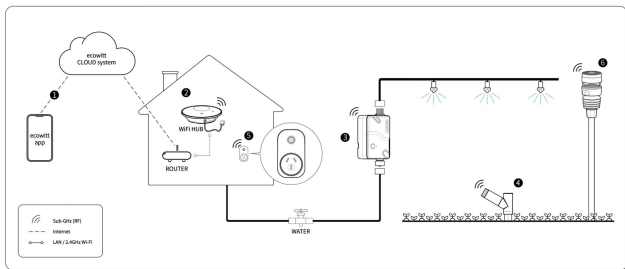


Figure 1 How Ecowitt Ecosystem works

Thank you for purchasing the Ecowitt AC1100 Smart Plug.

The Ecowitt AC1100 is a brand new smart plug that is compatible with the Ecowitt IoT ecosystem. When paired with the Ecowitt IoT gateway, it allows remote control of power on/off, energy consumption tracking, remote alarms, and more. Additionally, it features a smart mode, enabling home appliance automation based on preset conditions.

Please note that the AC1100 needs to be used in conjunction with the Ecowitt IoT gateway and can't be used as a standalone product.

The following User Manual provides step by step instructions for installation and operation. Use this manual to become familiar with your professional Smart plug and save it for future reference.

1.Configuration Process

Before configuring the AC1100, you need to set up an IoT-enabled gateway. IoT gateway configuration brief introduction will be covered in **Section 1.1**, followed by the configuration and usage of the AC1100 with the IoT gateway in **Section 1.2**.

1.1 IoT Gateway Pairing Instructions

1.1.1 Compatible IoT Gateway models

Prepare an IOT-supported gateway that has been added to Ecowitt, ensuring the frequency matches. The compatible models are listed in the table below.







Compatible Models	
Model	Picture
GW1200	
GW2000	
WS3900/WS3910	
WN1980/WN1920	
WS3800	
WN1820/WN1821	

Table 1 Compatible IoT gateway Models

1.1.2 Install Ecowitt app

1. Install "ecowitt" APP

- . Install "ecowitt" app.
- . Register and log in.
- . Make sure the app has (precise) location and WiFi service enabled.
- . Disable your mobile phone cellular data service until all setup steps are done.

2. Pair hub to your home WiFi

- .Run"ecowitt"app.
- .Tap "menu" —>"weather station" —>"+" add a new weather station.
- .Follow the instructions to complete the hub to be added under your account.

.You can add as many weather stations under your account.

3. Pair AC1100 to your hub

- . Tap "..." from the dashboard on top right corner, go to "+subdevice"
- . Follow the instructions to pair your AC1100 to the hub.

4. Register sensors on your hub

- . Tap "..." on the top right corner of the dashboard to access the "Sensor ID" page.
- . Ensure that your sensor has been correctly registered, with its sensor ID properly matched.

(*Note: Step 4 is only applicable when you have additional Ecovitt sensors or for further reference.)



1.2 Pair the AC1100 with an IoT gateway

1.2.1 Power on AC1100

Plug it into a power outlet, press and hold the button for more than 5 seconds, the blue light flashes and it enters the pairing mode.

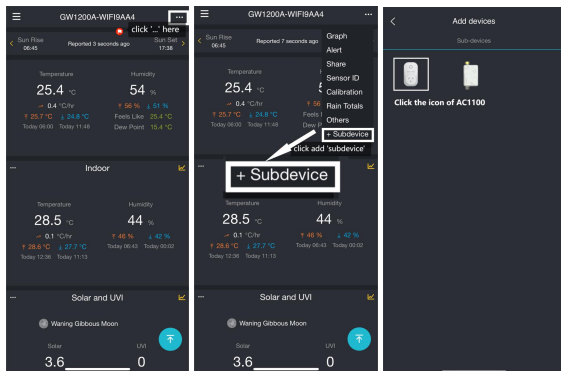
1.2.2 Pair with an IoT Gateway

(In order to illustrate clearly, here is a Pairing demonstration with GW1200)

Click as the following steps

1. Open ecowitt app
2. Enter the gateway dashboard. Click ‘...’ on top right corner.
3. Click ‘+Subdevice’ and choose the icon of AC1100.
4. Click ‘Device is in pairing mode’ and wait till the success tip pops up.

5. Pairing completed, and it will automatically navigate to the AC1100 interface.



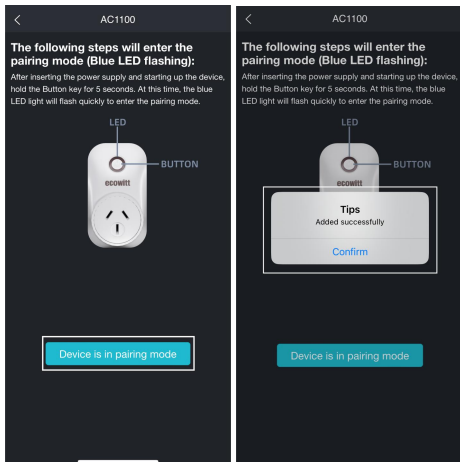


Figure 2 Pair an AC1100

2. App Operation Introduction

2.1 Main Interface Introduction



Figure 3 Main Interface Introduction



Figure 4 AC1100 Interface Introduction

- ① Signal strength
- ② Input voltage
- ③ Power consumption
- ④ Running time of current program
- ⑤ Program time
- ⑥ Current status







	Complete (Blue)	Running (Green)	Stop (Yellow)
Manual Control			
App Control			
Smart Control			
Plan Control			

Table 2 AC1100 Interface Introduction

- ⑦ Enter log diary and alert notifications
- ⑧ Enter Plan Mode
- ⑨ Enter Smart Mode
- ⑩ Other information



Figure 5 Other Information Introduction

- ⑪ Current power
- ⑫ Usage of current program
- ⑬ Switch button
- ⑭ Total Runtime of current program

3. App Operation Modes


The operation mode includes Button mode, Manual mode, Plan mode, and Smart mode. Each mode trigger will be interrupted by each other, and the operation generated by the most recent trigger will take effect.

For example, AC1100 is on by schedule in accordance with the plan mode. At this time, a condition under the smart mode is met, which triggers the AC1100 to switch off immediately. When the next scheduled time arrives, AC1100 will be switched on again.

3.1 Manual Mode

Execute immediately after setting the power consumption mode on APP.

3.1.1 Initial statement

In the initial state, clicking the switch button  allows you to choose between 'By Duration' and 'Always On.' In the 'By Duration' mode, you can also select the on and off states for the cycle mode.

Cycle Mode ON & OFF range: 5seconds~3600seconds

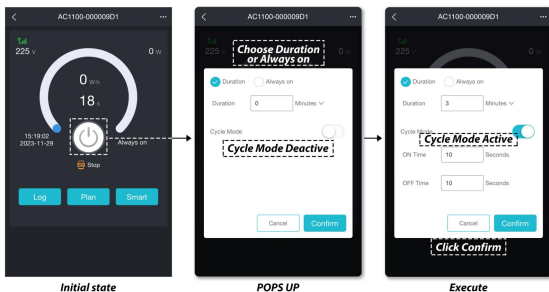


Figure 6 Manual Mode program Illustration

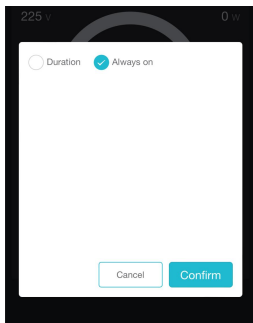
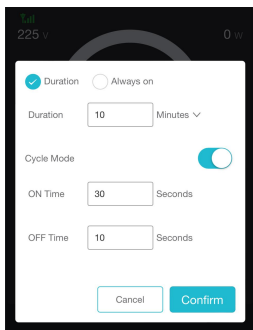
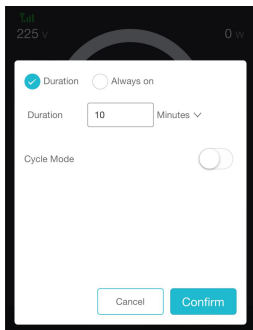


Figure 7 Three Manual mode setting conditions

3.1.2 Running statement

When in running state, click the switch button to stop running directly. The switch button turns **gray**.

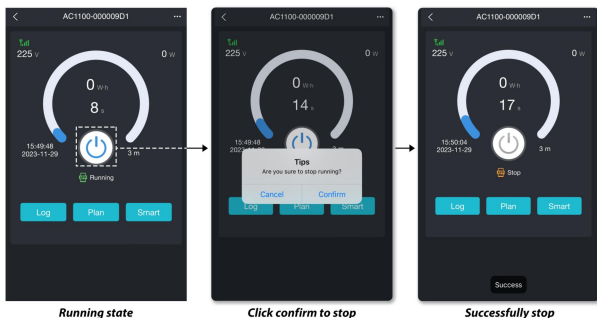


Figure 8 Manual stop the current plan

3.2 Button Mode



Figure 9 Button Display

3.2.1 Short Press

Execute Quick Run or terminate the current program.

Quick Run refers to the execution actions set in the last Manual Mode.

3.3 Plan Mode

After successfully setting up the plan, it will be saved on the AC1100. Even if the AC1100 is disconnected from the gateway, it can still execute the plan as scheduled.

1. Select "Plan" to enter the plan editing interface.
2. Use the switch icon on the right to control the activation or deactivation of the plan.
3. Click the edit icon to access the editing interface.
4. In the editing interface, you can set the plan's start time, total duration, and choose whether to enable the cycle mode.

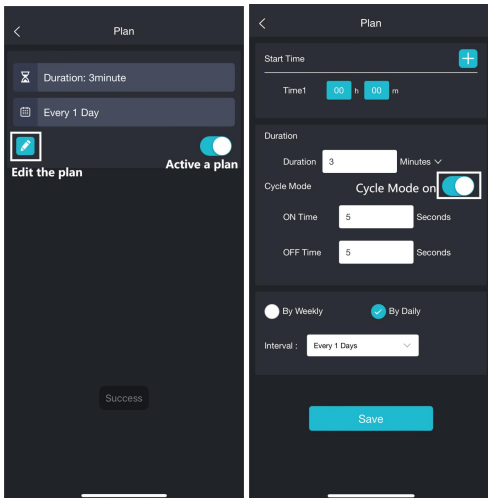


Figure 10 Edit the plan

3.4 Smart Mode

This feature enables the control of the AC1100 according to preprogrammed conditions.

Important Notes:

APP side operation for the setup of MANUAL(ON/OFF), PLAN, and SMART operations involves communication with ecowitt's IOT server. Once commands are downloaded, the hub independently executes them when triggered by local sensor data. Upon completion, the hub sends execution results to the ecowitt IOT server for logging. This ensures that even without a server connection, planned command execution proceeds as intended.

A DESIRED FEATURE ON OUR WISHING LIST:

If you have multiple hubs, sensor data from other hubs can serve as a triggering source. However, this functionality implicitly requires that all hubs are

registered under the same user account and connected to the server as a bridge. While this is technically feasible, the cross-hub triggering feature has not been implemented in the current design. We plan to introduce support for this feature through Over-The-Air (OTA) upgrades to your hub firmware. Please stay tuned for announcements regarding the addition of this feature in future updates.

3.4.1 How to add an automation task

The following introduces the content of each section when setting up an automation task.

Enter smart task setting interface :

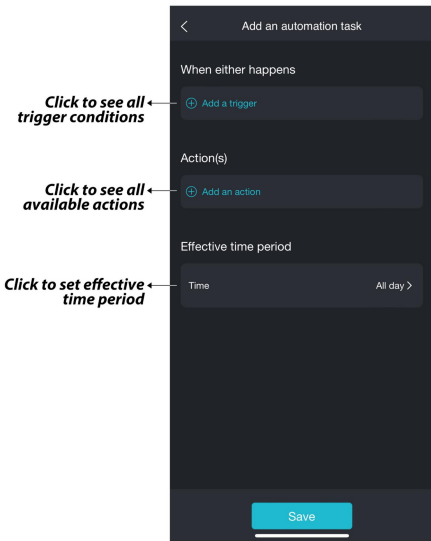


Figure 11 Add an automation task

3.4.1.1 Add a trigger

The conditions can be selected to execute the task when the supported parameters in the gateway are higher than the specified value/lower than the specified value/equal to a certain state.

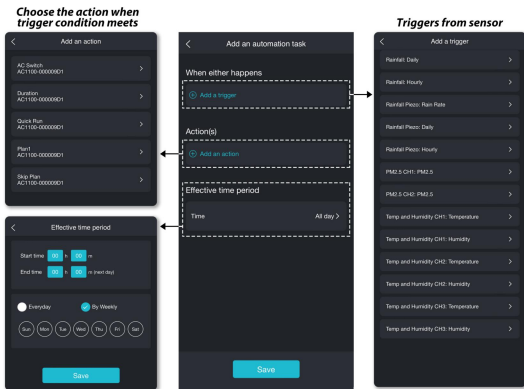


Figure 12 Automation task setting introduction

You can also set the task to be executed when multiple trigger conditions are satisfied at the same time or when multiple conditions are satisfied arbitrarily (either one or the other).

3.4.1.2 Add an action

The following actions can be set.

- a) Set the status of AC1100 as on or off
- b) Set the duration
- c) Execute the Quick Run setting
- d) Activate or deactivate the plan
- e) Skip the plan for a set duration

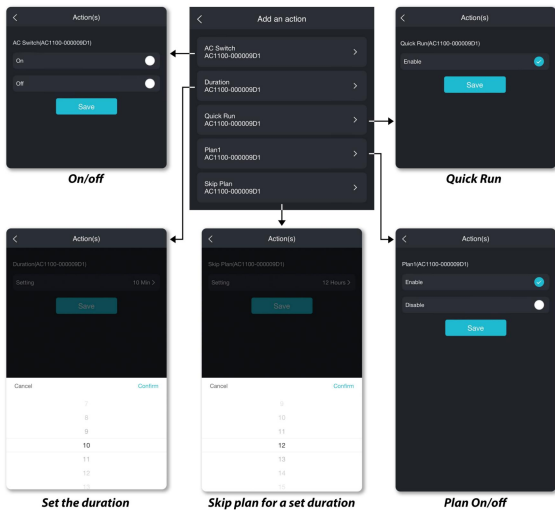


Figure 13 Add an action

3.4.2 How to manage automation tasks

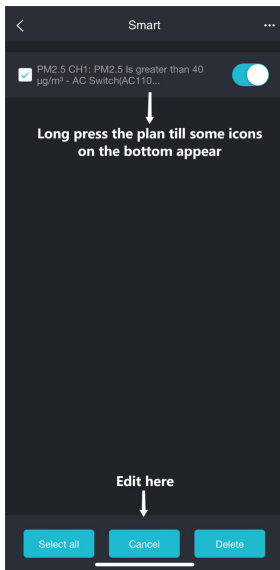


Figure 14 Edit smart plans

3.4.3 Smart Mode log

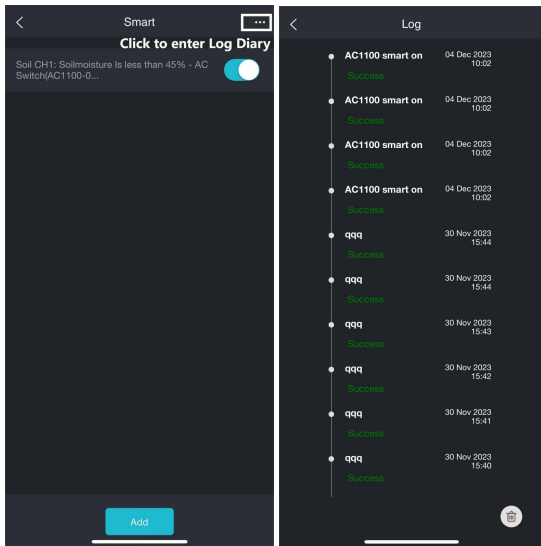
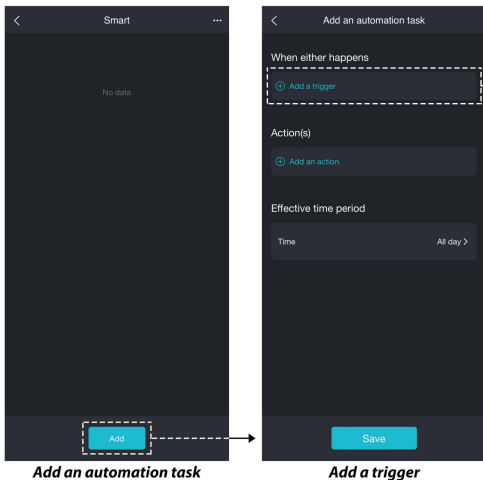


Figure 15 Smart Mode Log Interface

3.4.4 An operation example

Here, we provide an example. When the AC1100 is connected to the home air purification system, you can set it to automatically turn on when the PM2.5 value exceeds the preset $40\mu\text{g}/\text{m}^3$.



Choose PM2.5 parameter

< Add a trigger

Rainfall Piezo: Rain Rate >

Rainfall Piezo: Daily >

Rainfall Piezo: Hourly >

PM2.5 CH1: PM2.5 >

PM2.5 CH2: PM2.5 >

The last two options are enclosed in a dashed box, with an arrow pointing to the 'When either happens' screen.

< When either happens

PM2.5 CH1: PM2.5

Is greater than ☒

Setting 40 µg/m³ >

Is less than ☐

Save

***Set the trigger to be
PM2.5 >40ug/m3***

< Add an automation task

When either happens

PM2.5 CH1: PM2.5 is greater than 40 µg/m³ >

+ Add a trigger

And when

+ Add a status condition

Action(s)

+ Add an action

Effective time period

Time All day >

Save

***Add an action when
trigger condition meets***

An automation task has been set up successfully

< Add an automation task

When either happens

PM2.5 CH1: PM2.5 is greater than 40 µg/m³ >

+ Add a trigger

And when

+ Add a status condition

Action(s)

+ Add an action

Effective time period

Time All day >

Save

***Add an action when
trigger condition meets***

< Add an action

AC Switch
AC1100-000009D1 >

Duration
AC1100-000009D1 >

Quick Run
AC1100-000009D1 >

Plan1
AC1100-000009D1 >

Skip Plan
AC1100-000009D1 >

Here we choose Option1

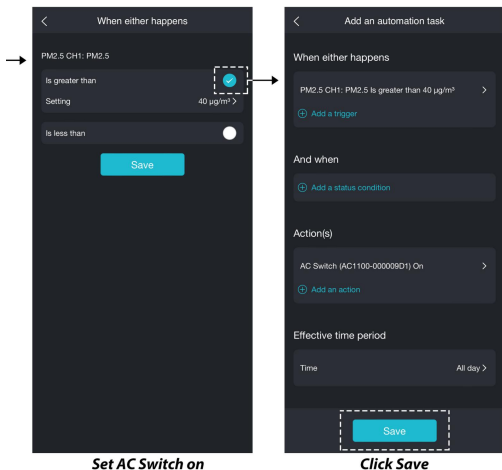


Figure 16 Automation Example

4. Log Introduction

Click Log to enter the log diary interface. On this interface, you can view all power consumption log diaries and also check alert information.

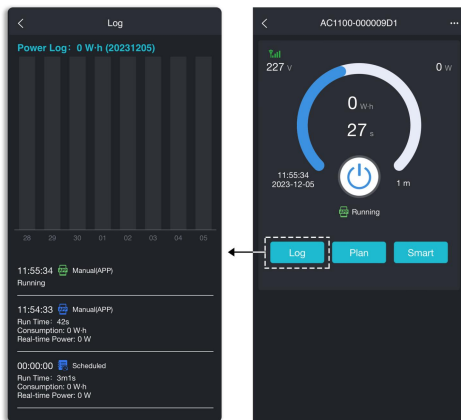


Figure 17 Log Interface

4.1 Log Diary

Each log diary will involve the operation mode, Run Time, Consumption, and Real-time Power.

4.2 Alerts Introduction

Alerts is also involved in log Interface. Here are descriptions of the following four alert types.

1.Communication is unstable!

Smart mode will be disabled. Please adjust the position of the AC1100 or WiFi hub.

2. Anomaly Alert!

Device self-check unstable.

Please reconfigure the network before use.

3. Leakage Alert!

When is off state and there's still power output, it's assumed as a Leakage fault.

4. Overload Alert!

When the AC voltage exceeds 270V or the current surpasses 18A, will forcibly get switched off and provide a notification in the app.

5. Overview and Specifications

5.1 AC1100BU American Regulation



Dimensions	62.0×56×110(mm)
Weight	118g
Material of Plastic Casing	PC
RF Connection Frequency	915MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	125VAC
Max Current	12A
Max Power	1500W
Power Meter Accuracy	±2%

5.2 AC1100CA Australia Regulation Version



Dimensions	62.0×64×110(mm)
Weight	118g
Material of Plastic Casing	PC
RF Connection Frequency	433MHz
RF Wireless Range	Over 90 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	10A
Max Power	2300W
Power Meter Accuracy	±2%

5.3 AC1100AU British Regulation Version



Dimensions	62.0×65×110(mm)
Weight	137g
Material of Plastic Casing	PC
RF Connection Frequency	868MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	13A
Max Power	3000W
Power Meter Accuracy	±2%

5.4 AC1100AE European Regulation Version



Dimensions	62.0×72×110(mm)
Weight	130g
Material of Plastic Casing	PC
RF Connection Frequency	868MHz
RF Wireless Range	Over 100 meters (in open areas)
Power-on current	≤ 80mA
Static current	≤ 15mA
Input Voltage	100—240VAC
Max Current	16A
Max Power	3500W
Power Meter Accuracy	±2%

6. Warranty

We disclaim any responsibility for any technical error or printing error or the consequences thereof.

All trademarks and patents are recognized.

We provide a 1-year limited warranty on this product against manufacturing defects or defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased, and only to the original purchaser of this product. To receive warranty service, the purchaser must contact us for problem determination and service procedures.

This limited warranty covers only actual defects within the product itself.

Manufacture: Shenzhen Fine Offset Electronics Co., Ltd.

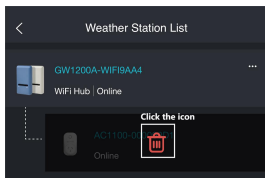
**Address: 4/F, Block C, JiuJiu Industrial City, Shajing Town,
Baoan District, Shenzhen City, China**

7. Trouble shooting

7.1 When you need to reconfigure the AC1100

7.1.1 Delete the AC1100

1. Enter the Weather Station List interface
2. long press the AC1100 under the gateway till the delete icon appears, click the icon.
3. AC1100 is successfully deleted.



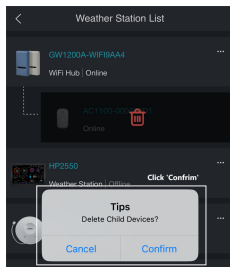


Figure 18 Delete an AC1100

7.1.2 Restore Factory Setting

Long Press button for 10s.

7.1.3 Reconfigure AC1100 and the IOT gateway

Go to 1.2.2.

8. Contact Us

Order Issues:

If you encounter any missing or incorrect shipments of Ecowitt products purchased, please reach out to the respective platform's customer service from the store you bought product for assistance

Usage Inquiries:

For any issues related to product usage, feel free to contact our customer support team at support@ecowitt.com with your AC1100 SN Number(as shown below).

We are committed to providing assistance and resolving any concerns you may have.

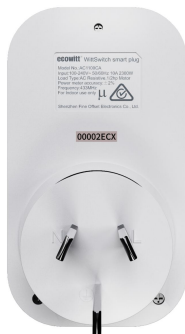


Figure 19 AC1100 SN Number

support@ecowitt.com

FCC WARNING

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body:

Use only the supplied antenna.

Stay in Touch

Ask questions, watch setup videos, and provide feedback on our social media outlets. Follow Ecowitt on Discord, YouTube, Facebook and Twitter.



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