

## Urageuxy WS0320

# Urageuxy 14-in-1 Wi-Fi Weather Station (Model WS0320)

## Instruction Manual

### 1. INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your Urageuxy 14-in-1 Wi-Fi Weather Station. This device is designed to provide comprehensive real-time weather data for your home, garden, or backyard, including temperature, humidity, wind speed and direction, rainfall, UV index, light intensity, wind chill, dew point, and barometric pressure. It also offers reliable weather forecasts and lunar phases.

### 2. PACKAGE CONTENTS

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Verify that all components are present in your package:

- 1 x Display Console
- 1 x Integrated 7-in-1 Outdoor Sensor
- 1 x Remote Thermo-hygrometer Transmitter
- 1 x Foot Mounting (with pole insert)
- 1 x Mounting Bracket Back Plate (pole mount)
- 1 x Mounting Pole
- 2 x Pole mounting nuts (M3) / bolts (Ø3)
- 4 x Pole mounting nuts (M5) / bolts (Ø5)
- 4 x Tapping screws
- 1 x Instruction Manual

# Weather Station Package Included

- 1\*Display Console
- 1\*Integrated Outdoor Transmitter
- 1\*Remote Thermo-hygrometer Transmitter
- 1\*Foot Mounting (with pole insert)
- 1\*Mounting Bracket Back Plate (pole mount)
- 1\*Mounting Pole
- 2\*Pole mounting nuts (M3) / bolts Ø3)
- 4\*Pole mounting nuts (M5) / bolts ( Ø5)
- 4\*Tapping screws
- 1\*Manual



Image: Contents of the Urageuxy 14-in-1 Wi-Fi Weather Station package, including the display console, outdoor sensor, remote sensor, mounting hardware, and manual.

## 3. COMPONENTS OVERVIEW

### 3.1 Display Console

The display console features an 8.07-inch HD screen, providing clear and intuitive visuals of all weather data. It includes adjustable backlight with three brightness levels (High, Medium, Low, Off) for optimal viewing in various lighting conditions.

# 8.07inch Large Screen Display



## OURS

Display Console  
Frame Dimensions :  
8.47x6.22x0.87inch  
LCD Dimensions:  
6.7x4.9inch



## OTHERS

Display Console  
Frame Dimensions :  
5.2x3.8x0.87inch  
LCD Dimensions:  
4.6x3.2inch



Image: Front view of the 8.07-inch display console, showing various weather parameters and its dimensions compared to a smaller display.

# Adjustable Backlight with 3 Brightness Levels



Image: Illustration of the display console with three adjustable backlight levels (High, Medium, Low) and an off setting.

## Va Type Clear Display



Image: Detailed view of the display console, highlighting various data points like outdoor temperature, humidity, rainfall, wind data, pressure, UV index, sunlight, and moon phase. Also shows the back with hanging holes, battery compartment, desktop stand, and DC jack.

### 3.2 Integrated 7-in-1 Outdoor Sensor

The outdoor sensor unit combines multiple sensors for comprehensive data collection. It is designed for durability and weatherproof performance.

- **Rain Collector:** Measures rainfall.
- **UV and Light Sensor:** Detects UV index and light intensity.
- **Wind Cups:** Measures wind speed.
- **Wind Vane:** Determines wind direction.
- **Thermo-Hygrometer Radiation Shield:** Protects temperature and humidity sensors from direct sunlight and rain for accurate readings.
- **Solar Panel:** Provides power to the outdoor sensor.
- **Level Indicator:** Assists in proper installation.

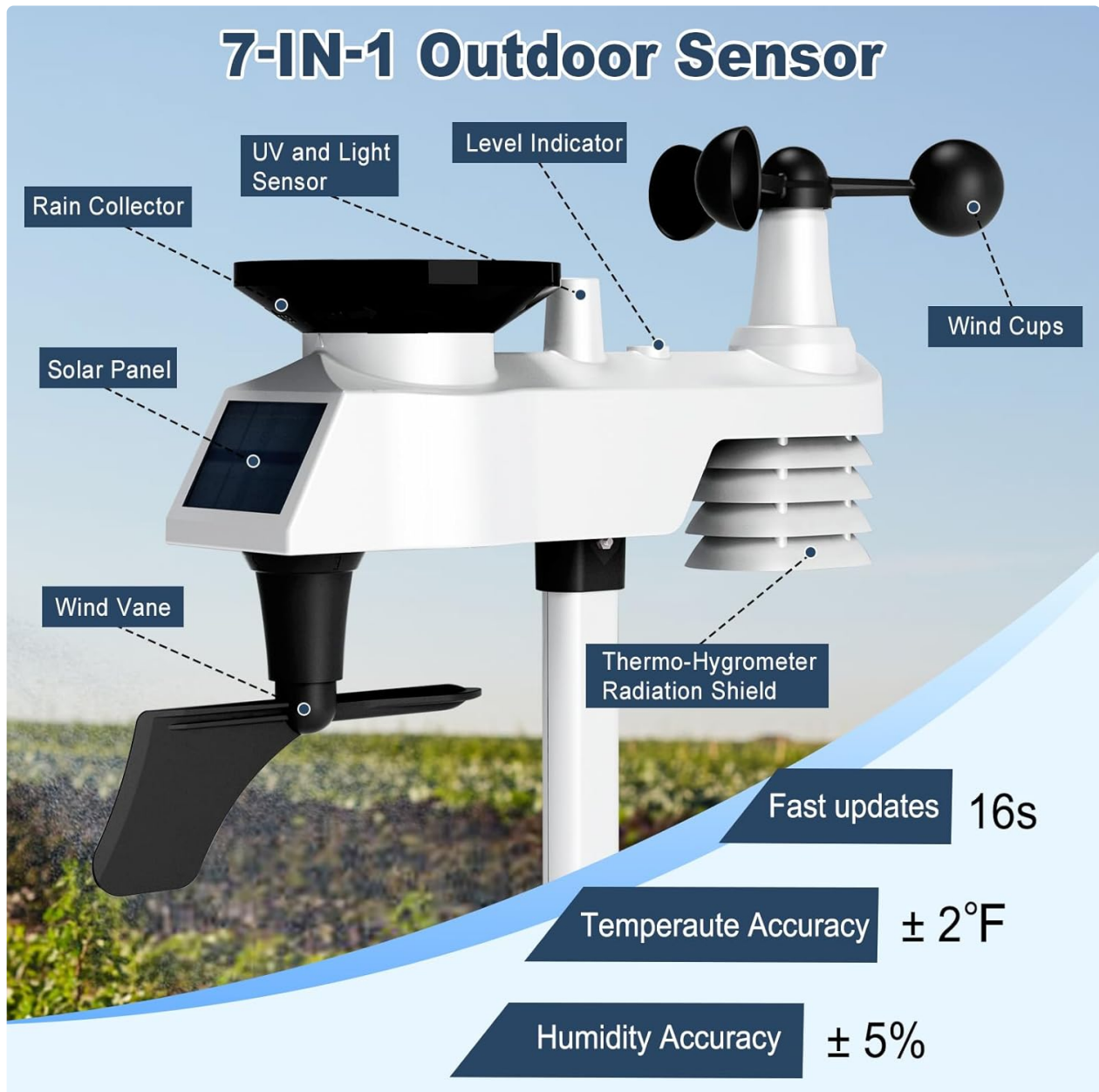


Image: Diagram illustrating the various components of the 7-in-1 outdoor sensor, including the rain collector, UV and light sensor, wind cups, wind vane, solar panel, level indicator, and thermo-hygrometer radiation shield.

## 7-IN-1 Outdoor Sensor

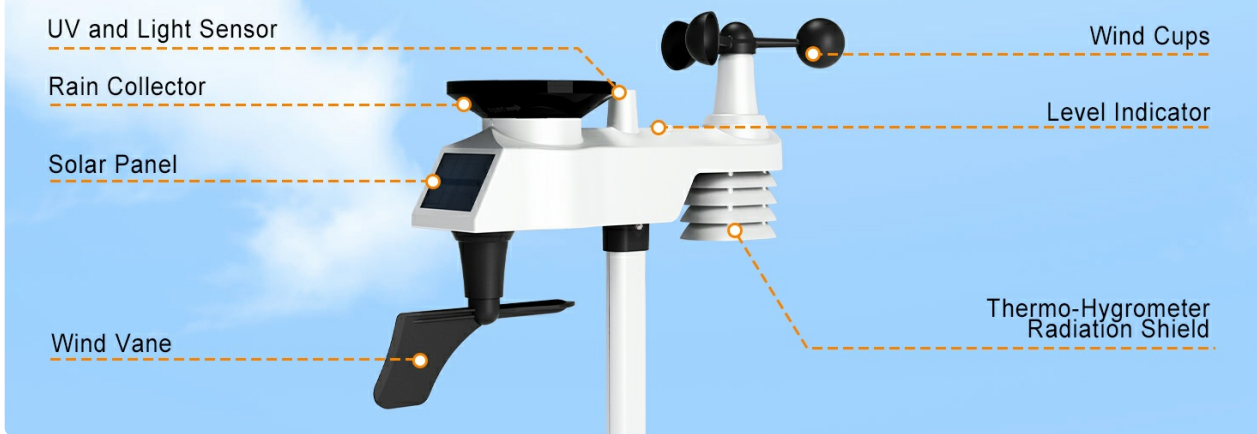


Image: Another diagram of the 7-in-1 outdoor sensor, clearly labeling its parts like wind cups, level indicator, thermo-hygrometer radiation shield, wind vane, solar panel, rain collector, and UV and light sensor.

## 4. SETUP

### 4.1 Power Supply

The display console requires a power adapter (included) and can use 3 AAA batteries (not included) for backup. The outdoor sensor is powered by a solar panel and uses 3 AA batteries (not included) as backup. Ensure batteries are inserted correctly according to polarity markings.

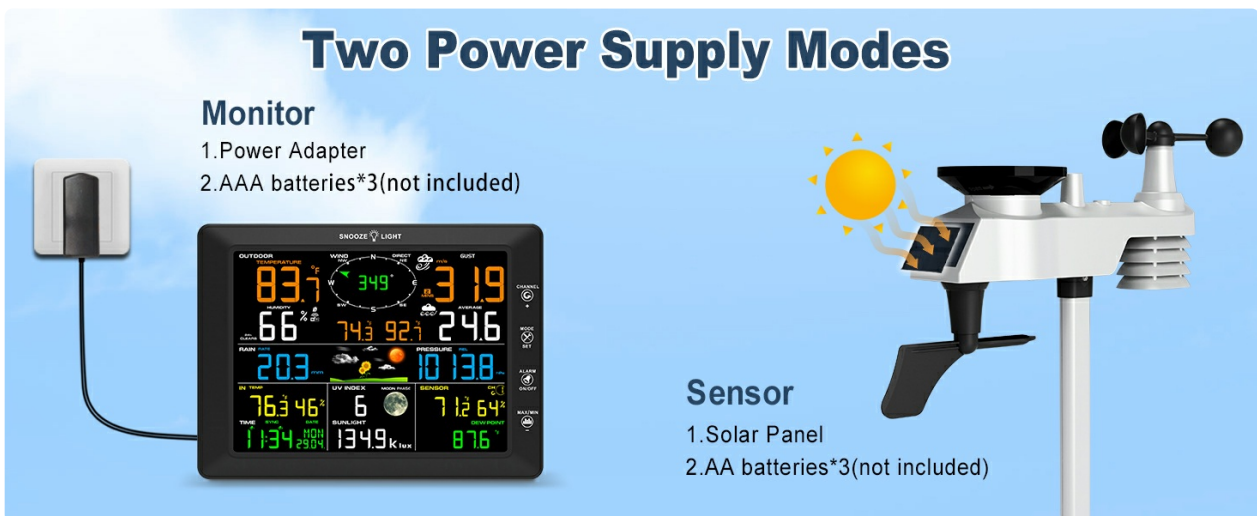


Image: Diagram showing the power supply methods for both the monitor (power adapter and AAA batteries) and the sensor (solar panel and AA batteries).

### 4.2 Outdoor Sensor Installation

Mount the outdoor sensor in an open area, away from obstructions, to ensure accurate readings for wind, rain, and sunlight. The sensor transmits signals up to 328 feet (100 meters) wirelessly. Use the included mounting hardware to secure it to a pole or suitable surface. Ensure the level indicator shows the sensor is perfectly horizontal for accurate rain and wind measurements.

# Strong & Stable Signal: Up to 328ft (100m) Transmission Range



Image: Depicts the outdoor sensor and display console, illustrating the strong and stable signal transmission range of up to 328 feet (100 meters).

## 4.3 Wi-Fi Connectivity

The weather station can connect to your 2.4G Wi-Fi network to upload data to online weather services like Weather Underground, Weather Cloud, and PWS Weather. This allows you to monitor real-time conditions and historical data from your smartphone, tablet, or computer.

1. Ensure the console's Wi-Fi icon is flashing.
2. Connect your laptop or smartphone to the "WeatherHome" WLAN network broadcast by the console.
3. Follow the on-screen instructions or manual to configure Wi-Fi settings and connect to your home router.
4. Create an account on Weather Underground or Weather Cloud, or use an existing one. Obtain your Station ID and Key.
5. Enter the Station ID and Key into the weather station's web interface (accessed via the "WeatherHome" network) to enable data upload.

# Live Weather Data through WiFi



Weather Cloud



Weather Underground



Image: Shows the display console connected to a smartphone app, demonstrating live weather data access via Wi-Fi and integration with Weather Cloud and Weather Underground.

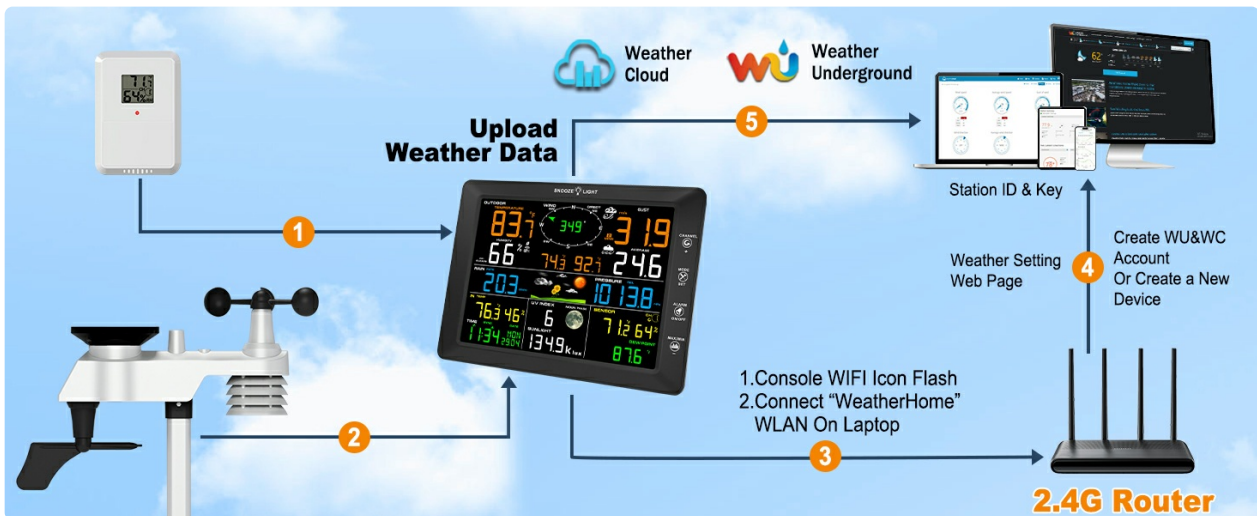


Image: A step-by-step diagram illustrating the process of uploading weather data from the console to online services via a 2.4G Wi-Fi router, including creating accounts on Weather Underground or Weather Cloud.

## 5. OPERATION

## 5.1 Displaying Weather Data

The 8.07-inch display console provides a comprehensive overview of 14 different weather parameters:

- Indoor/Outdoor Temperature
- Indoor/Outdoor Humidity
- Weather Forecast
- Wind Speed & Direction
- Dew Point & Feels Like Temperature
- Barometric Pressure
- Rainfall
- Time & Date
- Sunlight & UV Index
- Sensor Temperature & Humidity
- Alarms
- Moon Phase



Image: The display console showing all 14 weather parameters, including indoor/outdoor temperature, humidity, wind

speed/direction, rainfall, UV index, sunlight, pressure, dew point, time, date, and moon phase.

## 5.2 Weather Forecast Function

The weather station provides a hyperlocal weather forecast based on data collected directly from your location and barometric pressure trends. The forecast symbols indicate weather fluctuations over the next 24-48 hours, not current conditions.



Image: Displays the weather forecast function with symbols for Sunny, Partly Cloudy, Cloudy, and Rainy conditions, indicating future weather trends.

## 5.3 Smart Alerts

The weather station offers customizable alerts for critical weather changes. You can set alarms for sudden temperature drops, high winds, or freezing conditions to receive timely notifications.

## 5.4 Adjusting Backlight

Press the **SNOOZE/LIGHT** button on the display console to cycle through the three brightness levels (High, Medium, Low) or turn the backlight off.



Image: Shows the display console in both tabletop stand and wall-mounted configurations, demonstrating the adjustable backlight with High (100%), Medium (60%), Low (30%), and Off (0%) settings controlled by the SNOOZE/LIGHT button.

## 6. MAINTENANCE

### 6.1 Outdoor Sensor Care

- **Cleaning:** Periodically clean the rain collector funnel and wind cups to prevent debris buildup, which can affect accuracy. Use a soft, damp cloth.
- **Battery Replacement:** While the outdoor sensor has a solar panel, it relies on AA batteries for continuous operation, especially during periods of low sunlight. Replace the AA batteries when indicated by the display console or if readings become inconsistent. Access the battery compartment on the underside of the sensor.
- **Mounting Stability:** Regularly check the mounting of the outdoor sensor to ensure it remains secure and level, especially after strong winds.

## 6.2 Display Console Care

- **Cleaning:** Wipe the display screen and console casing with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Placement:** Keep the console in a dry environment, away from direct sunlight and extreme temperatures, to prolong its lifespan.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor data displayed	Outdoor sensor not powered or out of range.	Check outdoor sensor batteries. Ensure sensor is within 328ft (100m) of the console and free from major obstructions. Re-pair the sensor if necessary (refer to full manual for pairing instructions).
Inaccurate rainfall readings	Rain collector blocked or sensor not level.	Clear any debris from the rain collector. Ensure the outdoor sensor is mounted perfectly level using the built-in level indicator.
Inaccurate wind direction/speed	Wind vane/cups obstructed or sensor not oriented correctly.	Ensure wind cups and vane spin freely. Mount the sensor in an open area, away from buildings or trees. Ensure the wind vane is pointing North during installation.
Wi-Fi connection issues	Incorrect Wi-Fi password, 5G network, or router too far.	Ensure you are connecting to a 2.4G Wi-Fi network. Double-check the Wi-Fi password. Move the console closer to the router. Restart the console and router.
Display is dim or blank	Power adapter disconnected or batteries low.	Check power adapter connection. Replace AAA batteries in the console. Adjust backlight brightness using the SNOOZE/LIGHT button.

## 8. SPECIFICATIONS

# Weather Station Measurement Specifications

<b>Indoor Temperature</b>	Range: 0 to 60 °C Accuracy: ± 1 °C Resolution: 0.1 °C	<b>Rain</b>	Range: 0 to 9999mm (0 to 396in) Accuracy: <15mm:±1 mm,15mm to 9999mm±7% Resolution: <1000mm (0.3mm)>1000mm (1mm)
<b>Outdoor Temperature</b>	Range: -40 to 60 °C Accuracy: ± 0.3 °C Resolution: 0.1 °C	<b>Wind Direction</b>	Range: 0 - 360° Accuracy: ± 10° (8 point compass) Resolution: ± 1° (8 point compass)
<b>Indoor Humidity</b>	Range: 10 to 99 % Accuracy: ± 5% (only guaranteed between 20 to 90%) Resolution: 1 %	<b>Wind Speed</b>	Range: 0 to 50 m/s, Accuracy: 2 m/s ~10 m/s:±0.3m/s, 10m/s ~50 m/s: ±10%(whichever is greater) Resolution: 0.1 m/s
<b>Outdoor Humidity</b>	Range: 10 to 99 % Accuracy: ± 3% (only guaranteed between 20 to 90%) Resolution: 1 %	<b>Barometric Pressure</b>	Range: 300 to 1100 hpa Accuracy: ± 3 hpa Resolution: 0.1 hpa
<b>UV Index</b>	Range: 1 to 15+ Accuracy: ± 1 Resolution: ± 1	<b>Sunlight</b>	Range: 0 to 200klux Accuracy: ± 15% Resolution: ± 15%

Image: A table summarizing the measurement specifications for indoor temperature, outdoor temperature, indoor humidity, outdoor humidity, UV index, rain, wind direction, wind speed, barometric pressure, and sunlight.

Feature	Detail
Brand	Urageuxy
Model	WS0320
Display Type	LCD
Connectivity Technology	Wi-Fi (2.4G)
Product Dimensions	0.87"D x 8.47"W x 6.22"H
Item Weight	4.2 Pounds
Material	Acrylonitrile Butadiene Styrene (ABS)
Indoor Temperature Range	0 to 60 °C (32 to 140 °F)
Outdoor Temperature Range	-40 to 60 °C (-40 to 140 °F)
Temperature Accuracy	±1 °C (±2 °F)
Humidity Range	10 to 99% RH
Humidity Accuracy	±5% (Indoor), ±3% (Outdoor, between 20-90%)
Rainfall Range	0 to 9999 mm (0 to 396 in)
Wind Speed Range	0 to 50 m/s (0 to 112 mph)
Barometric Pressure Range	300 to 1100 hpa (8.85 to 32.48 inHg)
UV Index Range	1 to 15+
Sunlight Range	0 to 200 klux

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided in the product packaging or visit the official Urageuxy website. Keep your purchase receipt for warranty claims.

## 10. OFFICIAL PRODUCT VIDEO

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Video: An official product overview of the Urageuxy 14-in-1 Wi-Fi Weather Station, demonstrating its features and functionality. This video is provided by the seller, Urageuxy.

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