

## Urageuxy BDFCWS0361DB

# Urageuxy 7-in-1 WiFi Weather Station Instruction Manual

*Model: BDFCWS0361DB*

## INTRODUCTION

Thank you for choosing the Urageuxy 7-in-1 WiFi Weather Station. This device provides comprehensive real-time weather data directly from your local environment. This manual will guide you through the setup, operation, and maintenance of your new weather station to ensure accurate and reliable performance. The system includes an indoor display console and an integrated outdoor sensor array, offering measurements for indoor/outdoor temperature and humidity, wind speed and direction, barometric pressure, rainfall, UV index, light levels, moon phase, date, and time. It also features an alarm clock and supports manual calibration for various parameters.

## PACKAGE CONTENTS

Before beginning installation, please verify that all components are present:

- 1x Display Console
- 1x Integrated Outdoor Transmitter (Sensor Array)
- 1x Remote Sensor
- 1x Manual
- 1x Power Adapter
- Mounting Hardware: 4x Washer (Metal gasket), 4x Pole Mounting U-bolt Nuts (M5), 2x U-bolt (M5), 1x L-shaped Stainless Steel base, 1x Wrench (M5), 1x Screwdriver (M3), 3x Wind Vane and Wind Cup mounting screws (Ø3), 2x Wind Vane and Wind Cup Waterproof rubber plug, 1x Foot Mounting (with pole insert), 1x Mounting Bracket Back Plate (pole mount), 1x Mounting Pole, 1x Pole mounting nuts (M3), 4x Pole mounting nuts (M5), 4x Tapping screws

# Weather Station Package Included

- 1\*Display Console  
Frame Dimensions: 6.5X 5.32X 0.7 inch;  
LCD Dimensions: 5.12 x 3.16 inch
- 1\*Integrated Outdoor Transmitter
- 4\*Washer(Metal gasket)+4\*Pole Mounting U-bolt Nuts(M5)
- 2\*U-bolt(M5)(Dimensions: 2.4x2.4x0.2 inch)
- 1\*L-shaped Stainless Steel base (Dimensions: 3x1.6x0.6inch)
- 1\*Wrench (M5)(Dimensions: 2.6x0.8x0.08inch)
- 1\*Screwdriver (M3)(Dimensions: 0.4x3.5inch)
- 3\*Wind Vane and wind Cup mounting screws (Ø3)  
Dimensions: M2\*6mm(0.23inch) One is a spare part
- 2\*Wind Vane and wind Cup Waterproof rubber plug  
Dimensions: 0.16x0.12inch(Ø4 x 3mm)
- 1\*Foot Mounting (with pole insert)  
Dimensions: 4x3x1.5inch (101x76x37mm)
- 1\*Mounting Bracket Back Plate (pole mount)  
Dimensions: 3x2.96x0.79inch (76x75x20mm)
- 1\*Mounting Pole  
Dimensions: 10.6x1.3x1.3inch(270x33x33mm)
- 1\*Pole mounting nuts (M3) / bolts Ø3)
- 4\*Pole mounting nuts (M5) / bolts ( Ø5)
- 4\*Tapping screws
- 1\*Power Adapter
- 1\*Manual



Image: All components included in the Urageuxy 7-in-1 WiFi Weather Station package, laid out for inspection.

## SETUP AND INSTALLATION

### 1. Powering the Display Console

1. Connect the provided power adapter to the display console and a power outlet.
2. Insert 3 AAA batteries (not included) into the battery compartment for backup power.

### 2. Installing the Outdoor Sensor Array

The outdoor sensor array measures wind speed/direction, temperature, humidity, solar radiation, and rainfall. Proper placement is crucial for accurate readings.

- **Location:** Choose an open area free from obstructions (trees, buildings) that could interfere with wind or rain measurements. A garden, lawn, patio, or roof/fence location is suitable.
- **Orientation:** Ensure the wind vane (the part with the propeller) is pointing south for accurate wind direction readings.
- **Mounting:** Use the provided mounting pole and hardware to securely attach the sensor array. The system supports various mounting options, including fence or pole mounting.
- **Batteries:** The outdoor sensor array requires 3 AAA batteries (not included). These batteries provide power when the integrated solar panel is not receiving sufficient sunlight.

# 8-IN-1 Outdoor Sensor



Image: Detailed view of the 8-in-1 outdoor sensor array, highlighting components like the rain collector, solar panel, wind cups, and wind vane.

# WIDELY APPLICATIONS



Image: Examples of suitable installation locations for the outdoor sensor, including farm, garden, and roof setups.

### 3. Connecting the Remote Sensor (Optional)

The remote sensor provides additional temperature and humidity readings. Place it in a desired location within 328ft/100m of the main display console.

### 4. Wi-Fi Connectivity

The weather station supports 2.4G Wi-Fi for data upload to online weather services.

1. Ensure your display console is powered on.
2. Follow the instructions in the manual to connect the console to your home 2.4G Wi-Fi network.
3. Once connected, you can upload data to platforms like Weather Underground, PWSWeather, and Weathercloud to view, analyze, and share your local weather data on your PC or smart device.

# Sync to Online Weather Website via WiFi



Weather  
Cloud



Weather  
Underground



WiFi 2.4G Router



Image: Diagram illustrating the Wi-Fi synchronization process, showing data flow from the outdoor sensor to the console, router, and online weather services.

## OPERATING INSTRUCTIONS

### Display Console Overview

The color display console provides a comprehensive overview of current and historical weather data.

# Wireless WIFI Weather Station



Image: Labeled diagram of the display console, indicating various data points such as indoor/outdoor temperature, humidity, wind speed/direction, rainfall, pressure, UV, moon phase, and time/date.

- **Outdoor Data:** Temperature, humidity, dew point, wind speed (gust/average), wind direction, pressure, rainfall (1 hour, 24 hours, week, month, total), moon phase, UV index, light.
- **Indoor Data:** Temperature, humidity.
- **Time & Date:** Current time, date, and day of the week.
- **Weather Forecast:** Graphical representation of upcoming weather trends.

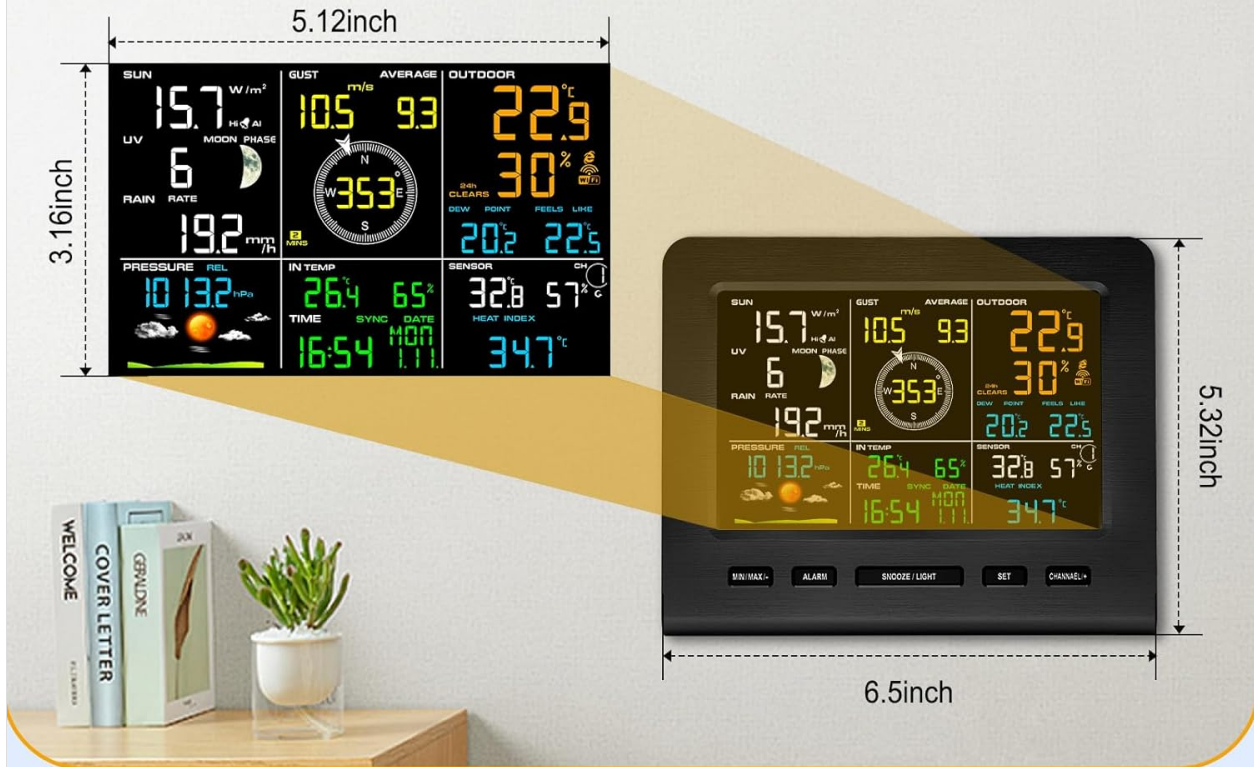
## Adjusting Backlight Brightness

The display console features 3 levels of brightness adjustment for optimal viewing in various lighting conditions.

# 3 Levels of Backlight Mode

Display Console Frame Dimensions :6.5X 5.32X 0.71inch(165×135×18mm)

LCD Dimensions:5.12 x 3.16inch(130×80mm)



High 100%



Medium 60%



Low 30%



OFF 0%



Image: Visual representation of the display console with different backlight brightness levels (High, Medium, Low, Off).

## Alarm Functions

Set various alarms including time alarm, indoor/outdoor temperature & humidity, gust/average wind speed, barometric pressure, and rainfall alerts.

## Manual Calibration

The weather station supports manual calibration of temperature, humidity, wind speed, barometric pressure, and rainfall to fine-tune accuracy based on your specific environment.

## MAINTENANCE

- **Battery Replacement:** Replace batteries in the display console (3x AAA) and outdoor sensor array (3x AAA) as needed. Batteries are not included.
- **Sensor Cleaning:** Periodically clean the rain collector and other exposed parts of the outdoor sensor to ensure accurate readings. Remove any debris that may obstruct the wind cups or rain gauge.
- **Temperature/Humidity Sensor:** The outdoor sensor features a Swiss-made replaceable temperature/humidity sensor for long-term accuracy.

## TROUBLESHOOTING

- **No Data on Display:** Ensure both the display console and outdoor sensor array have fresh batteries and are powered on. Verify they are within the wireless transmission range (up to 328ft/100m in open areas).
- **Inaccurate Readings:** Check the outdoor sensor's placement for obstructions. Ensure the wind vane is correctly oriented to the south. Perform manual calibration if necessary.
- **Wi-Fi Connection Issues:** Confirm your router is operating on a 2.4G frequency. Re-attempt the Wi-Fi setup process as outlined in the manual. Ensure the console is within range of your Wi-Fi router.

## SPECIFICATIONS

Feature	Detail
Brand	Urageuxy
Model Number	BDFCWS0361DB
Display Type	LCD
Connectivity Technology	Wi-Fi (2.4G router support)
Power Source (Console)	Power Adapter, 3x AAA Batteries (backup, not included)
Power Source (Outdoor Sensor)	Solar Panel, 3x AAA Batteries (not included)
Wireless Transmission Range	Up to 328ft / 100m (open area)
Product Dimensions (Console)	0.78"D x 6.35"W x 5.32"H
Item Weight	5.06 pounds (2.3 Kilograms)
Material	Acrylonitrile Butadiene Styrene (ABS)
Indoor Temperature Range	0 to 60 °C (32 to 140 °F), Accuracy: $\pm 1$ °C ( $\pm 2$ °F), Resolution: 0.1 °C (°F)
Outdoor Temperature Range	-40 to 60 °C (-40 to 140 °F), Accuracy: $\pm 1$ °C ( $\pm 2$ °F), Resolution: 0.1 °C (°F)
Indoor Humidity Range	10 to 99 %, Accuracy: $\pm 5$ % (only guaranteed between 20 to 90 %), Resolution: 1 %
Outdoor Humidity Range	10 to 99 %, Accuracy: $\pm 5$ % (only guaranteed between 20 to 90 %), Resolution: 1 %
Rain Range	0 to 9999mm, Accuracy: <15mm: $\pm 1$ mm; 15mm to 9999mm: $\pm 7$ %, Resolution: <1000mm (0.3mm); >1000mm (1mm)
Wind Direction Range	0 - 360°, Accuracy: $\pm 10$ ° (8 point compass), Resolution: $\pm 1$ ° (8 point compass)

Feature	Detail
Wind Speed Range	0 to 50 m/s, Accuracy: 2 m/s ~ 10 m/s: $\pm 0.3\text{m/s}$ ; 10m/s ~ 50 m/s: $\pm 10\%$ (whichever is greater), Resolution: 0.1 m/s
Barometric Pressure Range	300 to 1100 hpa, Accuracy: $\pm 3$ hpa, Resolution: 0.1 hpa
UV Index Range	1 to 15+, Accuracy: $\pm 1$ , Resolution: $\pm 1$
Sunlight Range	0 to 200klux, Accuracy: $\pm 15\%$ , Resolution: $\pm 15\%$

Image: A table summarizing the measurement specifications for various parameters of the weather station.

## WARRANTY AND SUPPORT

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Specific warranty details are not provided in the product information. For warranty claims or technical support, please refer to the contact information provided in your product packaging or visit the official Urageuxy website.

The product is sold by Urageuxy and fulfilled by Amazon. Standard return policy is 30 days for refund/replacement.