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JMBay 20231201ws

JMBay Weather Station with Digital Rain Gauge (Model 20231201ws) User Manual

Model: 20231201ws

1. INTRODUCTION

The JMBay Weather Station (Model 20231201ws) is a comprehensive device designed to provide accurate indoor and outdoor weather information. It features a vibrant 7.5-inch color LCD display, a self-emptying rain gauge, and wireless sensors for temperature, humidity, and rainfall. This manual provides detailed instructions for setting up, operating, and maintaining your weather station.

Key Features:

- Multi-function weather station with a self-emptying and maintenance-free rain gauge.
- 7.5-inch colorful LCD screen with a wide viewing angle for clear readability.
- Displays indoor/outdoor temperature and humidity, air pressure and history, rainfall, moon phase, weather forecast and trend, and outdoor index.
- Atomic clock with WWVB function for automatic time and date calibration (PST, MST, CST, EST) and auto DST.
- Adjustable backlight with 3 levels when powered by adapter; 10-second backlight when on batteries.
- Supports up to 3 remote channels for multiple sensor locations (one sensor included).
- Dual alarm clock with snooze function and calendar.

2. PACKAGE CONTENTS

- JMBay Weather Station Main Unit
- Outdoor Temperature and Humidity Sensor (1 unit)
- Digital Rain Gauge
- Power Adapter
- User Manual (this document)

METEOROLOGICAL STATION WITH RAIN GAUGE



Image: Overview of the JMBay Weather Station components, including the indoor display unit, the outdoor temperature and humidity sensor, and the outdoor rain gauge.

3. SETUP

3.1 Powering the Main Unit

The main unit can be powered by the included power adapter or by batteries (not included).

- **Using Power Adapter:** Connect the power adapter to the main unit and plug it into a wall outlet. The backlight will remain on and can be adjusted.
- **Using Batteries:** Insert the required batteries (refer to the battery compartment for type and polarity) into the main unit. The backlight will illuminate for 10 seconds after a button press to conserve power.

FOUR BRIGHTNESS OPTIONS AVAILABLE



Image: Illustration showing the two power supply options for the JMBay Weather Station: via power adapter for continuous backlight or via batteries for portable use with a temporary backlight.

3.2 Installing Outdoor Sensors

Proper placement of the outdoor temperature/humidity sensor and rain gauge is crucial for accurate readings.

- **Outdoor Temperature/Humidity Sensor:** Place the sensor in a shaded area, away from direct sunlight and heat sources, to ensure accurate temperature readings. Ensure it is protected from direct rain and snow.
- **Rain Gauge:** Position the rain gauge in an open area, away from obstructions like trees or buildings, to ensure accurate rainfall collection. The self-emptying design requires no manual intervention for drainage.
- Ensure both outdoor sensors are within the wireless range of the main unit.

3.3 Initial Synchronization

After powering on the main unit and installing batteries in the outdoor sensors, the devices should automatically synchronize. If not, follow these steps:

1. Ensure batteries are correctly installed in all sensors.
2. Power on the main unit.
3. Press and hold the 'CHANNEL' or 'SEARCH' button on the main unit (refer to specific button labels on your device) to initiate a manual search for outdoor sensors.
4. The main unit will display outdoor readings once connected.

3.4 Time and Date Setting (WWVB Function)

The weather station is equipped with a WWVB receiver for automatic time and date synchronization with the atomic clock signal. This function typically activates automatically upon initial setup.

- Place the main unit near a window for better signal reception.
- The device will automatically calibrate daily for accurate time and date.
- If the WWVB signal is weak in your area, you can manually set the time and date using the designated buttons (e.g., 'MODE', 'SET', 'UP', 'DOWN'). Refer to the on-screen prompts for specific steps.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The 7.5-inch color LCD provides a comprehensive view of all weather data. Key information displayed includes:

- Current Time and Date
- Indoor Temperature and Humidity
- Outdoor Temperature and Humidity (up to 3 channels)
- Weather Forecast Icons (Sunny, Cloudy, Overcast, Rainy, Heavy Rain, Snowy)
- Barometric Pressure and History
- Rainfall Data (Today, Yesterday, Total)
- Moon Phase



Image: A detailed view of the JMBay Weather Station's large color display, highlighting the arrangement of time, date, weather forecast, indoor and outdoor environmental data, and moon phase indicators.

4.2 Adjusting Backlight

The backlight brightness can be adjusted when the main unit is powered by the adapter.

- When plugged in, press the 'LIGHT/SNOOZE' button (or similar, refer to your device) to cycle through 3 levels of brightness (High-Low-Off).
- When powered by batteries, the backlight will automatically turn off after 10 seconds to conserve power. Press any button to temporarily illuminate the screen.

IN ORDER TO MAKE IT EASIER FOR YOU TO READ

LARGE SCREEN DISPLAY

Larger and easier to read screen

VA TECHNOLOGY DISPLAY SCREEN

Can be viewed from any angle without affecting reading.



Image: Visual representation of the four available backlight brightness options for the JMBay Weather Station, ranging from 100% to off, with an indication of the control button on the back of the unit.

4.3 Weather Forecast

The weather station provides a forecast for the next 12-24 hours based on barometric pressure changes. It automatically updates every 6 hours.

- The display shows one of six weather icons: Sunny, Cloudy, Overcast, Rainy, Heavy Rain, or Snowy.
- These icons represent a prediction and may not always match current conditions precisely.

WITH RAINFALL MEASUREMENT FUNCTION

SELF EMPTYING RAIN GAUGE

Automatic drainage of rainwater, easy and convenient

HIGH PRECISION RAINFALL MEASUREMENT

It can provide you with very accurate rainfall information and historical rainfall queries.



Image: The JMBay Weather Station display showing the six distinct weather forecast icons, indicating conditions from sunny to snowy.

4.4 Rain Gauge Function

The included digital rain gauge measures precipitation and transmits data wirelessly to the main unit.

- The rain gauge is self-emptying, eliminating the need for manual drainage.
- It provides high-precision rainfall measurements, displayed as 'Today', 'Yesterday', and 'Total' rainfall.
- This feature helps track precipitation for gardening, flood awareness, and other outdoor activities.

MULTIFUNCTIONAL METEOROLOGICAL STATION

- ▶▶▶ INDOOR/OUTDOOR TEMPERATURE
- ▶▶▶ WEATHER FORECAST
- ▶▶▶ PRESSURE
- ▶▶▶ CALENDAR
- ▶▶▶ LARGE SCREEN DISPLAY
- ▶▶▶ INDOOR/OUTDOOR HUMIDITY
- ▶▶▶ RAIN GAUGE
- ▶▶▶ ALARM CLOCK
- ▶▶▶ LUNAR PHASE
- ▶▶▶ AUTOMATIC CALIBRATION TIME



Image: The JMBay Weather Station main unit, outdoor sensor, and the self-emptying rain gauge, demonstrating the system's ability to measure and display rainfall data.

4.5 Alarm Clock and Calendar

- The weather station includes a dual alarm clock with a snooze function.
- The calendar displays the current date, day of the week, and moon phase.
- Refer to the device's buttons (e.g., 'ALARM', 'SET') for specific instructions on setting alarms and adjusting calendar settings.

4.6 Multiple Sensor Channels

The main unit supports up to three outdoor temperature and humidity sensors (one included). This allows monitoring of different locations.

- To switch between channels, press the 'CHANNEL' button on the main unit.
- Additional sensors must be purchased separately and paired following the initial synchronization steps.

5. MAINTENANCE

- **Cleaning:** Wipe the main unit and sensors with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Rain Gauge:** The rain gauge is designed to be self-emptying and maintenance-free. Periodically check for any debris (leaves, twigs) that might obstruct the funnel.
- **Battery Replacement:** Replace batteries in the outdoor sensors and main unit (if battery-powered) when the low battery indicator appears on the display. Ensure correct polarity.
- **Sensor Placement:** Periodically check that outdoor sensors remain securely mounted and in optimal locations for accurate readings.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Sensor not paired, out of range, or low battery.	Check sensor batteries. Re-synchronize the sensor (see Section 3.3). Move sensor closer to the main unit.
Rain gauge not displaying rainfall.	Rain gauge not paired, obstructed, or low battery.	Check rain gauge batteries. Ensure it's free from debris. Re-synchronize (see Section 3.3).
Inaccurate temperature readings.	Sensor exposed to direct sunlight or heat source.	Relocate the outdoor sensor to a shaded area.
WWVB atomic clock not synchronizing.	Weak signal due to location or interference.	Move the main unit closer to a window. Manually set the time and date if automatic synchronization is consistently unsuccessful.
Display backlight not staying on.	Unit is running on batteries.	Connect the power adapter for continuous backlight.

7. SPECIFICATIONS

Feature	Detail
Brand	JMBay
Model Number	20231201ws
Display Type	LCD
Power Source	Corded Electric (Adapter included), Batteries (Not included)
Special Features	Adjustable Brightness, Atomic Clock, Customizable Alert, Large Display, Wireless Sensors
Specific Uses	Humidity, Moon Phase, Pressure, Rain Rate, Temperature
Item Weight	1.54 pounds
Package Dimensions	8.27 x 5.79 x 5.51 inches

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official JMBay website. Keep your purchase receipt as proof of purchase for any warranty claims.