

[Manuals.plus](#) /

› [DreamSky](#) /

› DreamSky Weather Station Indoor Outdoor Thermometer Wireless with Digital Atomic Clock User Manual

DreamSky 24BW02

DreamSky Weather Station User Manual

Model: 24BW02

Brand: DreamSky

INTRODUCTION

The DreamSky Weather Station provides comprehensive indoor and outdoor environmental monitoring, featuring a large, colorful display for easy readability. It includes an atomic clock for precise timekeeping and offers weather forecasting capabilities based on atmospheric pressure changes. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting.



Figure 1: DreamSky Weather Station Main Unit and Wireless Outdoor Sensor

WHAT'S IN THE BOX

- Weather Station Main Unit
- Wireless Outdoor Sensor (1 included, supports up to 3)
- User Manual
- Ruler
- Nails

SETUP

Powering the Device

The weather station can be powered by the included AC adapter for continuous operation and full backlight functionality. It also supports battery backup (not included) to maintain time and settings during power outages, though the screen will

dim to conserve power.



Figure 2: Powering the Weather Station via AC Adapter and Battery Backup

Outdoor Sensor Placement

Place the wireless outdoor sensor in a shaded, dry location away from direct sunlight and precipitation to ensure accurate temperature and humidity readings. The sensor has a signal range of up to 330 feet (100 meters) in open air.

The weather station makes it easy for you to monitor the weather situation of you location.



Signal Range: 330ft (100m)



Outdoor Sensor Included

Figure 3: Recommended Outdoor Sensor Placement

Atomic Clock Synchronization (WWVB)

The weather station features a WWVB atomic clock that automatically synchronizes time and date for accuracy. It will also adjust for Daylight Saving Time (DST) automatically. Allow time for the station to receive the signal upon initial setup.



Atomic Clock and AUTO DST
provide you with an accurate time

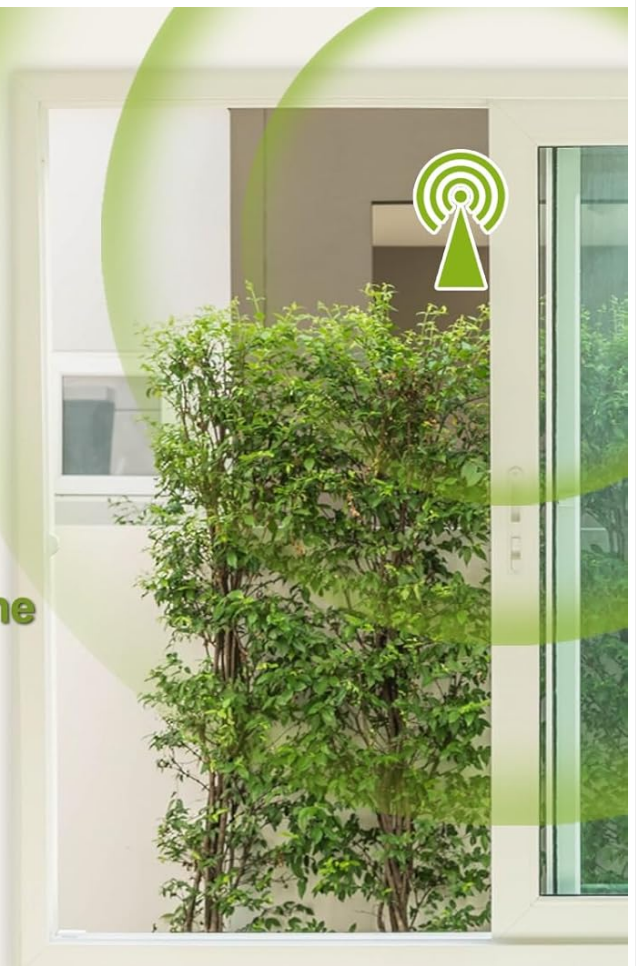


Figure 4: Atomic Clock Synchronization and DST Feature

Initial Settings and Setup Video

For a visual guide on setting up your DreamSky Weather Station, including initial time, date, and unit adjustments, please refer to the official setup video below. The video demonstrates how to navigate the settings using the control buttons.



Video 1: How to set up the DreamSky Weather Station. This video provides a step-by-step guide on configuring the device's initial settings.

OPERATING INSTRUCTIONS

Display and Backlight

The large, colorful display shows indoor and outdoor temperature, humidity, atomic time, date, year, and calendar day. The backlight has 5 adjustable levels to suit different lighting conditions and can be dimmed to avoid disturbing sleep.



Figure 5: Adjustable Backlight and USB Charging Port

Weather Forecast

The station predicts weather conditions for the next 12-24 hours based on atmospheric pressure changes. It requires 7-10 days for initial calibration to provide accurate forecasts.

Temperature and Humidity Monitoring

Monitor indoor and outdoor temperature and humidity. The device supports up to three outdoor sensors (one included). High/low temperature alerts can be set to notify you of significant changes.

Mounting Options

The main unit can be placed on a tabletop using its foldout stand or mounted on a wall using the two hanging holes on the back.



Figure 6: Flexible Mounting Options

MAINTENANCE

To ensure optimal performance and longevity of your DreamSky Weather Station, follow these maintenance guidelines:

- **Cleaning:** Wipe the display and unit surfaces with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Battery Replacement:** If using battery backup, replace batteries when the low battery indicator appears on the display. Ensure correct polarity.
- **Sensor Care:** Periodically check the outdoor sensor for debris or obstructions. Ensure its placement remains protected from extreme weather.
- **Storage:** If storing the unit for an extended period, remove all batteries to prevent leakage.

TROUBLESHOOTING

If your weather station is not functioning as expected, please refer to the common issues and solutions below:

Why my station won't stay lit



If your station still have problem, please contact us through our costumer service email

1



The screen will dim when powered by battery to save the power.

Solution: Connect the station with adapter, if it connected, try to plug with another outlet

2



The dimmer was set to low

Solution: Adjust the dimmer to higher

3



The screen will dim when searching the WWVB signal for a better reception.

Solution: Station will stay lit after receive the atomic signal or you can press and hold the WWVB button to quit the searching

Figure 7: Common Troubleshooting Steps for Display Issues

- **Screen Dims or Doesn't Stay Lit:**

- If powered by battery, the screen will dim to save power. Connect the station with the AC adapter for continuous full brightness.
- Check the dimmer setting. Adjust it to a higher level if it was set too low.
- The screen may dim when searching for the WWVB signal. It will stay lit after receiving the atomic signal, or you can press and hold the WWVB button to quit the search.

- **Inaccurate Readings:**

- Ensure the outdoor sensor is placed in a location free from direct sunlight, heat sources, or extreme cold.
- For pressure-based weather forecasts, allow 7-10 days for the unit to calibrate to your local atmospheric pressure. Manual adjustment of pressure value can speed up calibration.

- **No Outdoor Sensor Reading:**

- Ensure both the main unit and the outdoor sensor have fresh batteries (if applicable).
- Verify the sensor is within range (330ft/100m in open air) and there are no major obstructions between the units.
- Try re-pairing the sensor with the main unit according to the setup instructions.

SPECIFICATIONS

Feature	Detail
Product Dimensions	3.94 x 3.94 x 3.94 inches; 10 ounces

Item Model Number	24BW02
Batteries Required	1 Lithium Polymer batteries (for backup)
Date First Available	February 27, 2024
Manufacturer	ShenZhen litian technology Co.,Ltd
Brand	DreamSky
Recommended Uses	Garden, Home, Office, RV, Deck, Patio, Green House, Garage, Basement, Kids Room, Outside Shed, Cabins, Baby Room
Specific Uses	Date, Humidity, Moon Phase, Pressure, Temperature
Power Source	Corded Electric
Special Features	Indoor Outdoor Thermometer Wireless, Colorful Large Display with Adjustable Backlight, WWVB Digital Atomic Clock with Auto DST, Customizable Temperature Alerts, Max/Min Temp Humidity Records, Adapter Powered with Battery Backup, USB Charging Port
Connectivity Technology	WWVB
Style	Atomic Weather Station
Color	Black

WARRANTY AND SUPPORT

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

