KALEVOL EM3390

KALEVOL Professional Weather Station EM3390 User Manual

Model: EM3390

1. Introduction

Thank you for choosing the KALEVOL Professional Weather Station EM3390. This device provides comprehensive weather information, including indoor and outdoor temperature and humidity, rainfall data, wind speed and direction, barometric pressure, and an atomic clock with date and time. Its color display and alert functions make it a valuable tool for monitoring local weather conditions.

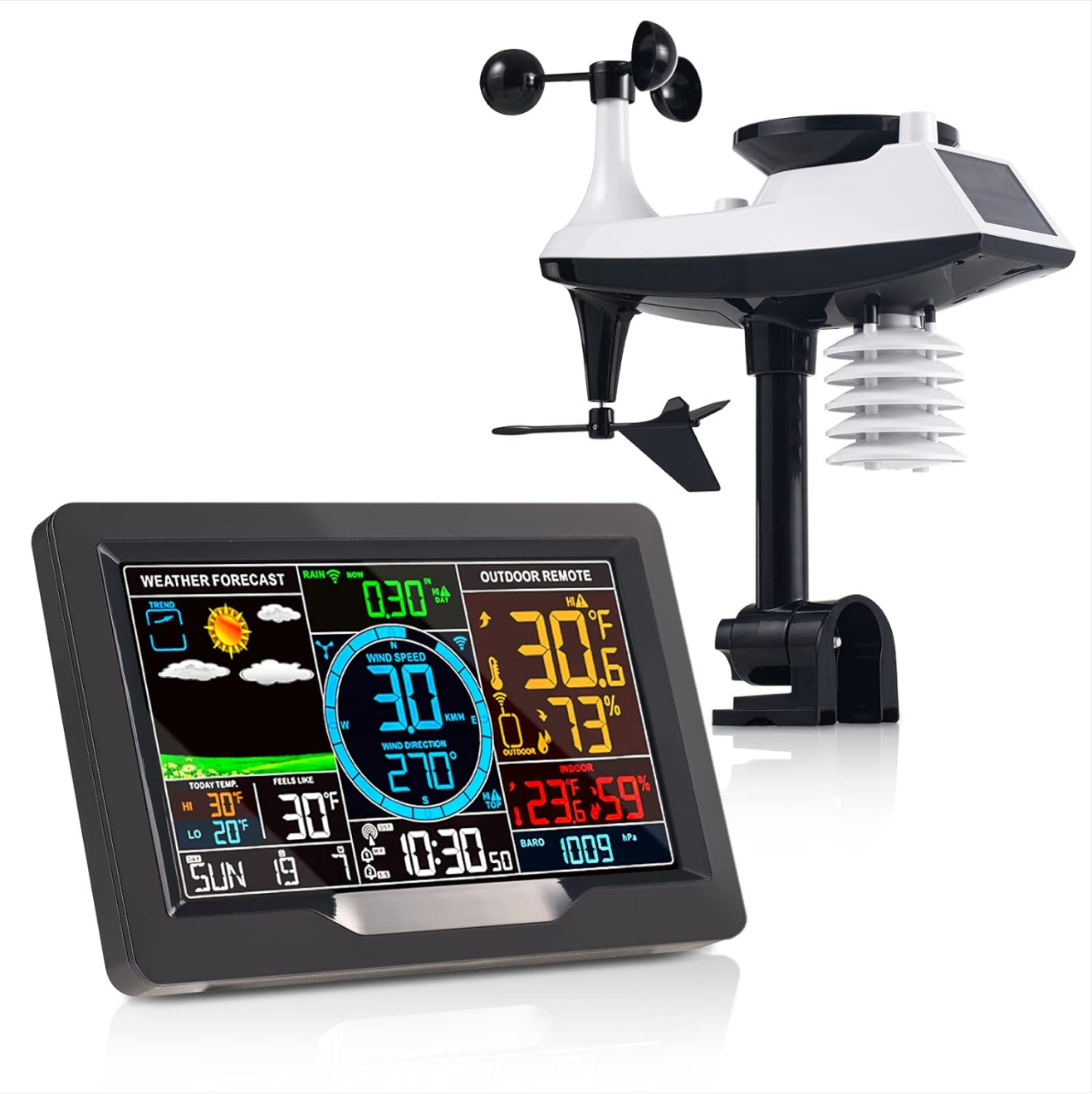

Image 1.1: The KALEVOL Professional Weather Station, showing the indoor display unit and the multi-sensor outdoor unit.

2. Safety Information

- Do not expose the main unit to extreme temperatures, direct sunlight, or moisture.
- Ensure the outdoor sensor is mounted securely to prevent damage from wind or falling.
- Keep batteries out of reach of children. Dispose of used batteries responsibly.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.

3. Package Contents

Please check the package contents to ensure all items are present:

- KALEVOL Professional Weather Station Display Unit
- Outdoor Multi-Sensor (Rain Gauge, Wind Speed/Direction, Temperature/Humidity)

- Mounting Hardware for Outdoor Sensor

Note: AC adapter for the main unit and AA batteries for both units are not included.

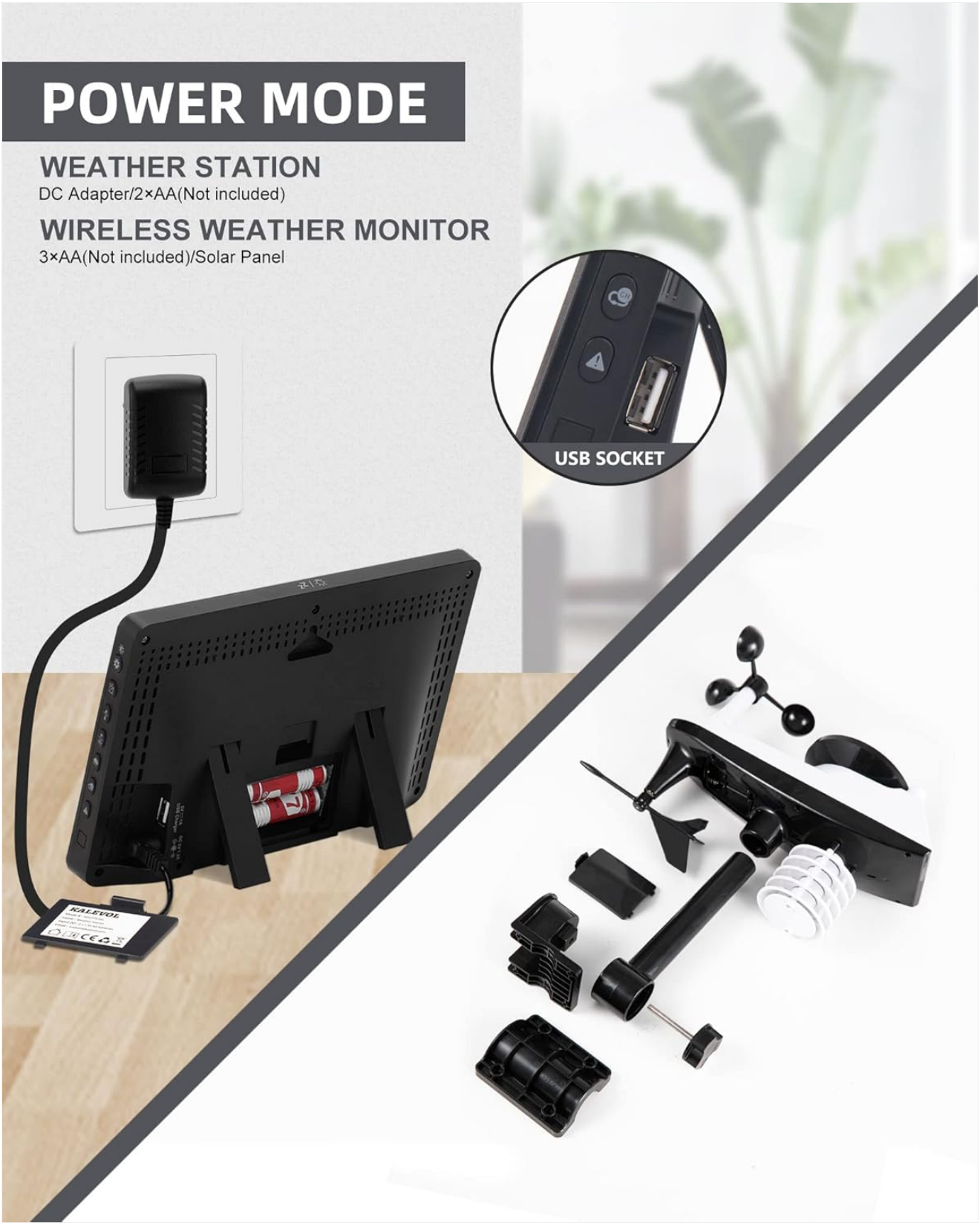

Image 3.1: The weather station components, illustrating the main display unit, the outdoor sensor, and various mounting parts. The image also shows the power input for the display unit and the battery compartment.

4. Product Overview

4.1 Display Unit

The main display unit features a color screen that presents all collected weather data. It measures approximately 8.1 inches wide by 5.1 inches high.

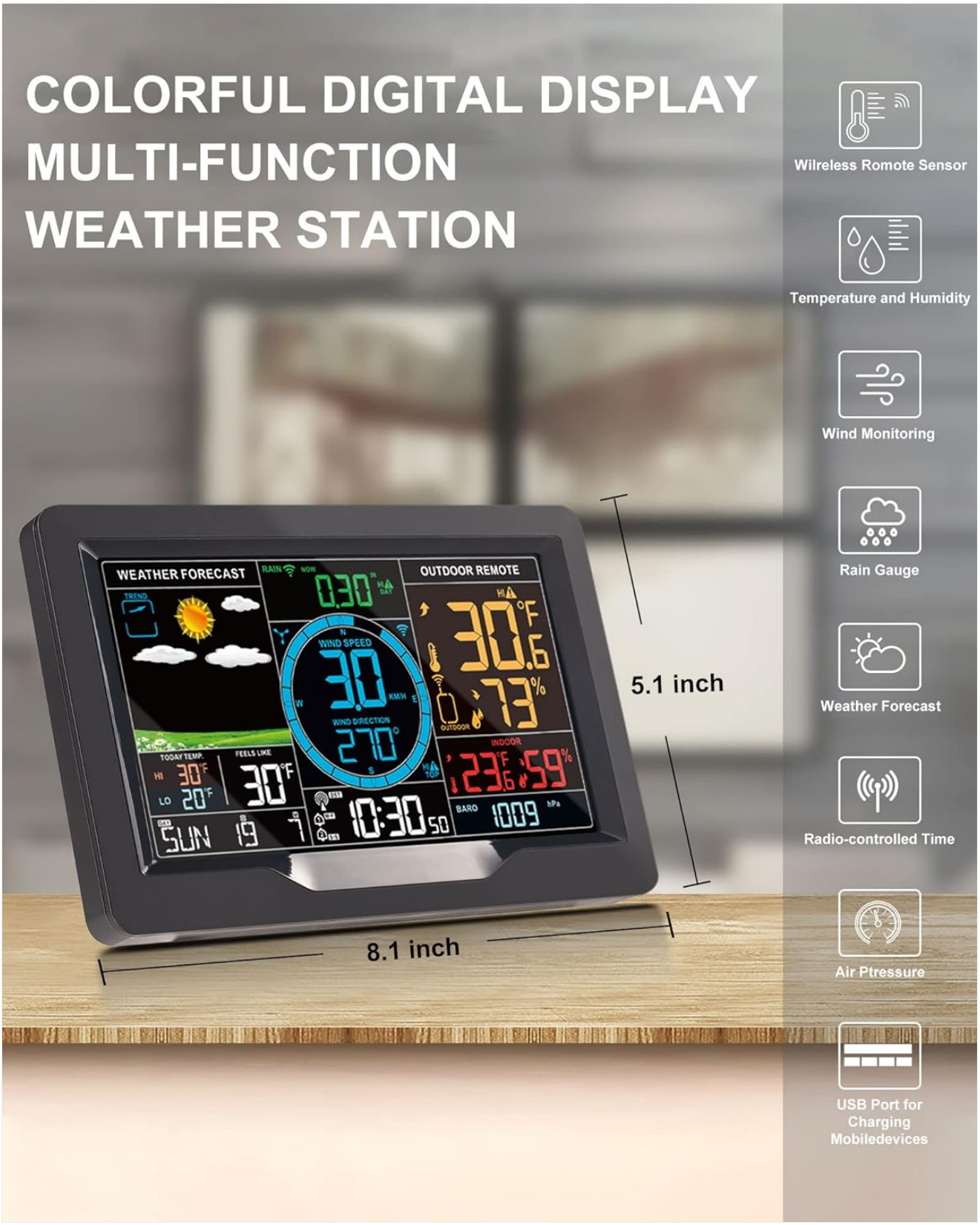

Image 4.1: The indoor display unit, highlighting its dimensions (8.1 inches width, 5.1 inches height) and various displayed weather parameters.

4.2 Outdoor Multi-Sensor

The outdoor sensor unit is designed to measure rainfall, wind speed, wind direction, and outdoor temperature and humidity. It is solar-powered with battery backup.

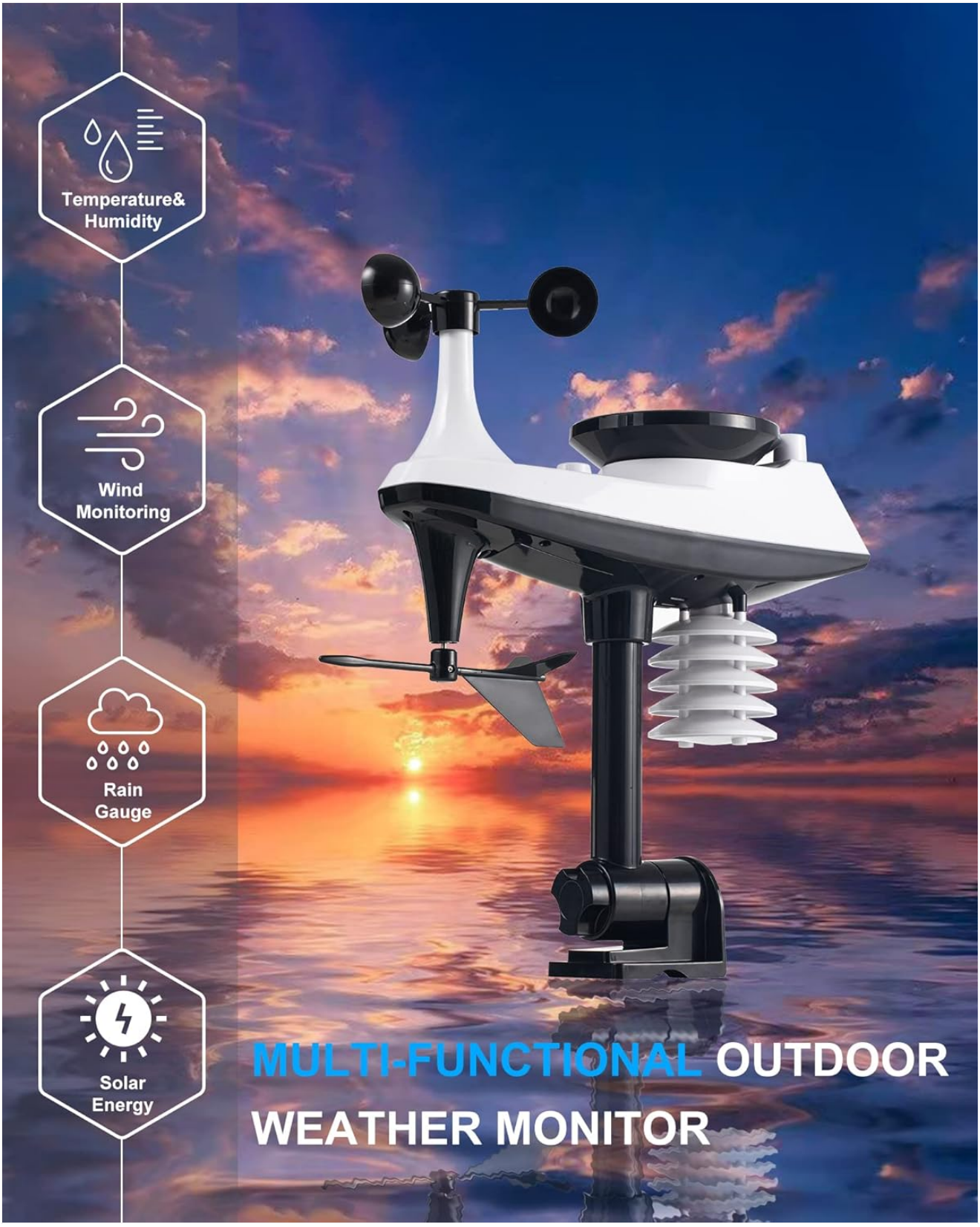

Image 4.2: The outdoor multi-sensor unit, featuring components for temperature and humidity, wind monitoring, rain gauge, and solar energy collection.

5. Setup

5.1 Powering the Units

- **Display Unit:** Insert 2xAA batteries (not included) into the battery compartment. For continuous operation and backlight, connect an AC adapter (not included) to the DC input port.
- **Outdoor Sensor:** Insert 3xAA batteries (not included) into the battery compartment. The integrated solar

panel will help extend battery life.

5.2 Initial Synchronization

Before placing the outdoor sensor in its final location, ensure both the display unit and the outdoor sensor are powered on and placed next to each other. This allows them to establish a connection. Confirm successful connection before proceeding.

5.3 Atomic Clock Synchronization

Upon initial power-up or after a reset, the display unit will automatically search for the WWVB atomic clock signal at 1:00 AM, 2:00 AM, and 3:00 AM. During this search, the screen may turn dark for approximately 7 minutes. If the screen does not stay on after the search, press the brightness adjustment button located on the side of the main unit.

5.4 Mounting the Outdoor Sensor

For accurate readings, mount the outdoor sensor in an open area, free from obstructions like trees or buildings that could block wind or rain. Ensure it is easily accessible for maintenance. The wireless transmission range is up to 330 feet (100 meters).

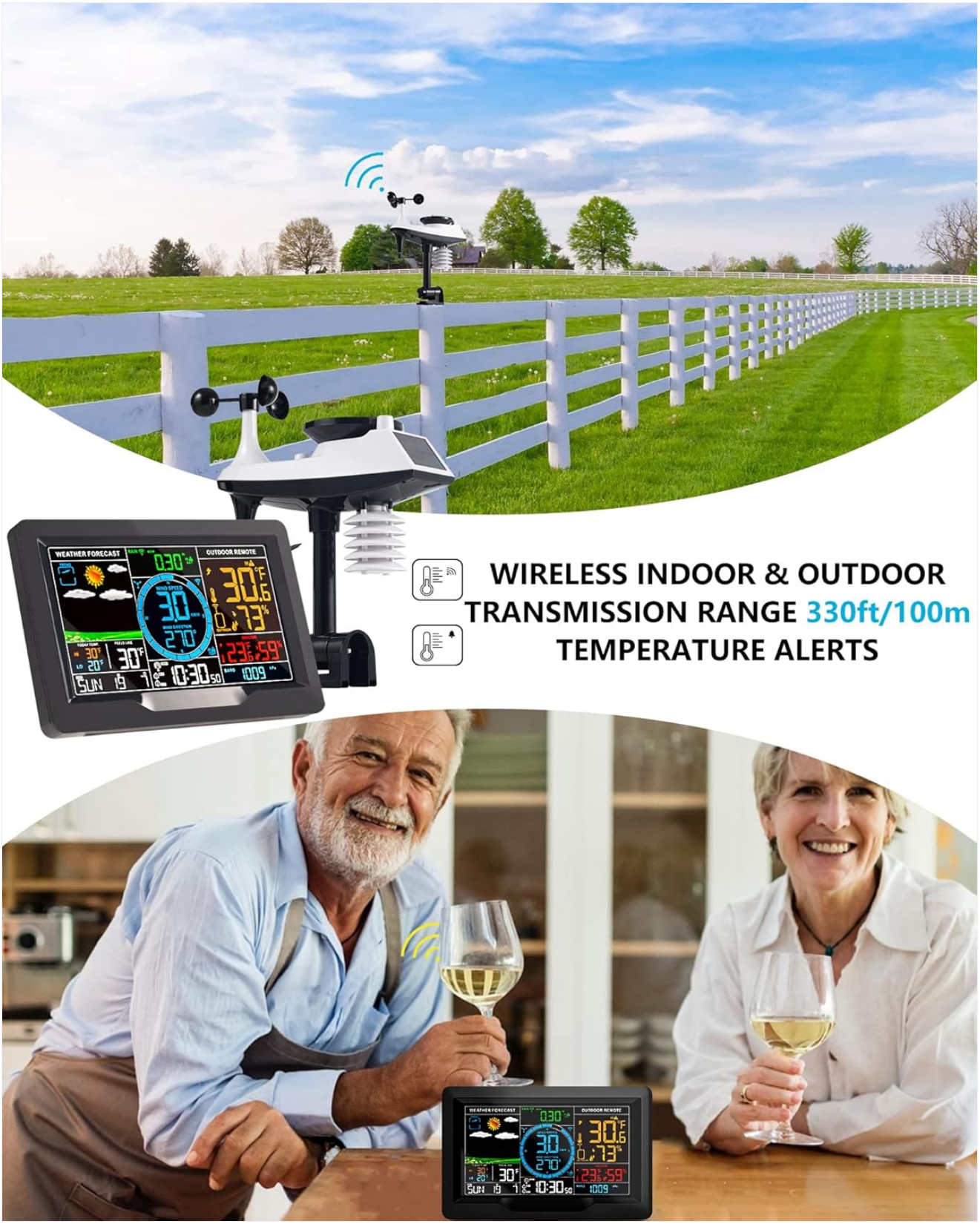

Image 5.1: The outdoor sensor unit is shown mounted in an open field, demonstrating optimal placement for wireless transmission and accurate data collection. The indoor display unit is also visible, indicating the wireless connection.

6. Operation

6.1 Display Overview

The color display provides a wealth of information at a glance:

- **Weather Forecast:** Icons indicating sunny, partly cloudy, cloudy, rainy, heavy rain, or snowy conditions for the

next 12-24 hours.

- **Indoor/Outdoor Temperature & Humidity:** Current readings and historical maximum/minimum values.
- **Wind Speed & Direction:** Current wind speed and direction, with historical records.
- **Rainfall Data:** Current rainfall and historical records (hourly, daily, weekly, monthly, yearly).
- **Barometric Pressure:** Current atmospheric pressure.
- **Time & Date:** Synchronized by the atomic clock.

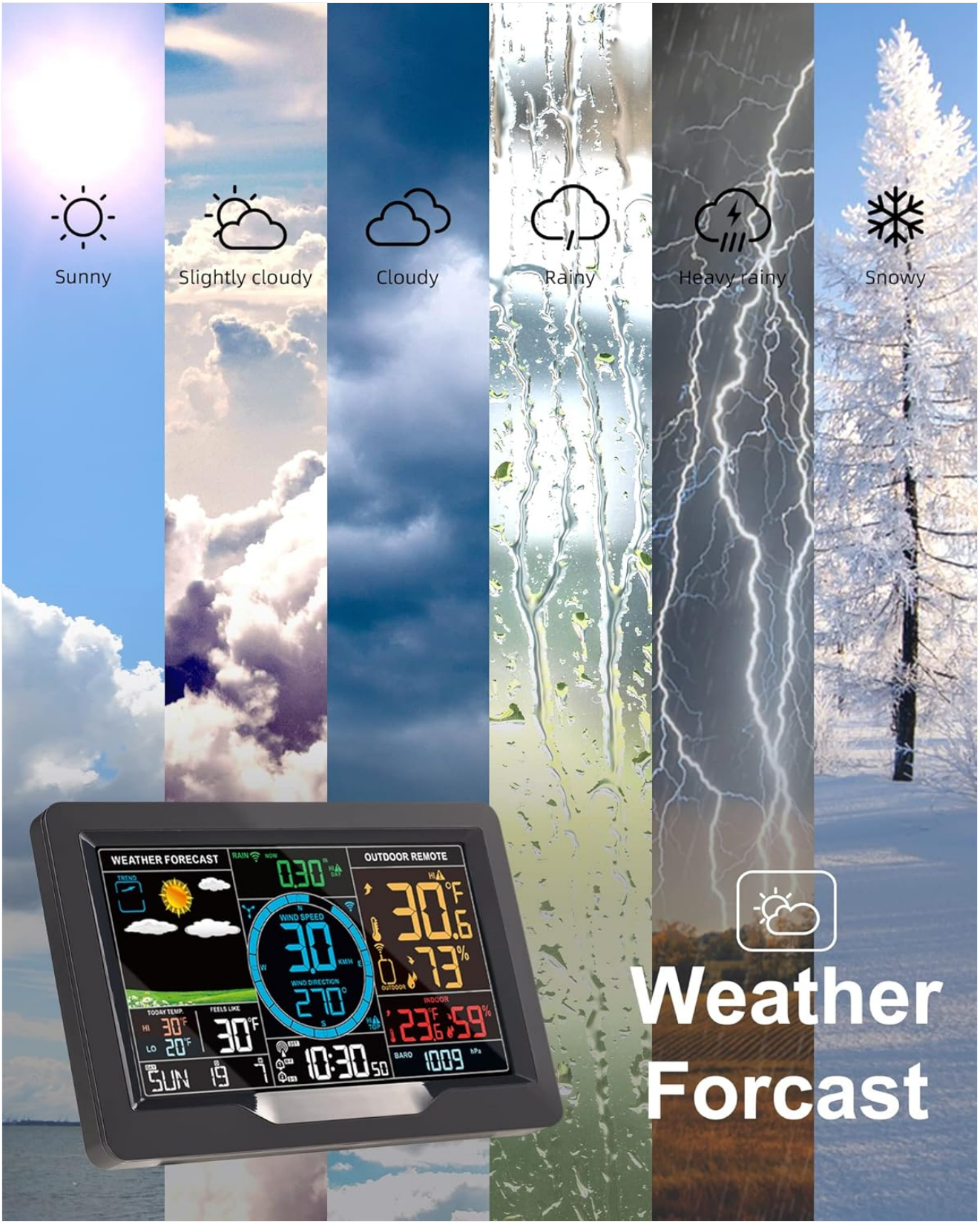

Image 6.1: The display unit showcasing various weather forecast icons, including sunny, slightly cloudy, cloudy, rainy, heavy rain, and snowy conditions.

6.2 Professional Rainfall and Wind Detection

The outdoor sensor accurately monitors real-time rainfall changes and records current wind speed and direction. You can access historical records to review past hours, days, weeks, months, or years of maximum wind speed and rainfall data.

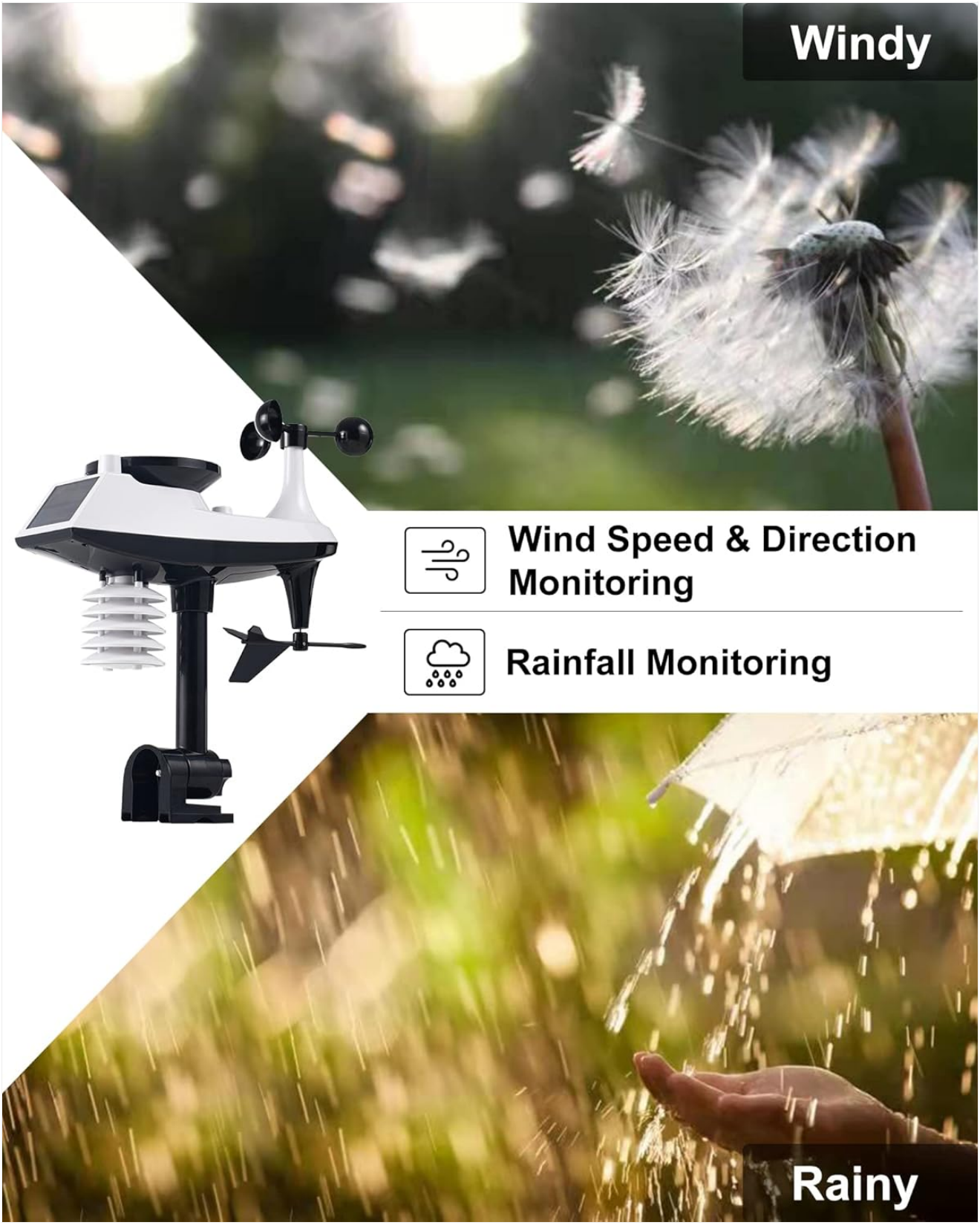

Image 6.2: The outdoor sensor unit is depicted monitoring wind (represented by dandelions blowing) and rain (represented by raindrops on a hand holding an umbrella), illustrating its dual functionality.

6.3 Setting Alerts

The weather station allows you to set customizable alerts for temperature, humidity, wind speed, and rainfall. Refer to the on-screen menu or specific buttons for alert configuration.

6.4 Adjustable Display Backlight

The digital display features a 4-fold adjustable backlight. Use the dedicated button on the side of the main unit to adjust the brightness to your preference for clear readability in various lighting conditions.

7. Maintenance

- **Battery Replacement:** Replace batteries in both the display unit and outdoor sensor when the low battery indicator appears.
- **Cleaning:** Periodically clean the display unit with a soft, dry cloth. For the outdoor sensor, ensure the rain gauge funnel and wind cups are free from debris (leaves, insects) to maintain accuracy.
- **Calibration:** The weather forecast function includes a 7 to 10-day calibration period to ensure accurate personal weather forecasts.

8. Troubleshooting

- **No Outdoor Sensor Reading:**
  - Ensure both units have fresh batteries.
  - Place the outdoor sensor within the 330ft (100m) transmission range.
  - Re-synchronize the units by bringing them close together and restarting both.
- **Inaccurate Rainfall Data:**
  - Check the rain gauge funnel for obstructions (leaves, dirt).
  - Ensure the outdoor sensor is level and not tilted.
- **Display is Dark/Not Staying On:**
  - If after atomic clock search, press the brightness adjustment button.
  - Ensure the AC adapter is connected if continuous backlight is desired.
  - Check batteries in the display unit.
- **Incorrect Time/Date:**
  - Ensure the atomic clock signal is being received. Check for obstructions that might block the signal.
  - Manually set the time zone if necessary.

9. Specifications

Product Dimensions	12.4 x 5.71 x 15.16 inches
Item Model Number	EM3390
Manufacturer	KALEVOL
Power Source (Display)	AC Adapter (not included), 2xAA Batteries (not included)
Power Source (Sensor)	3xAA Batteries (not included), Solar Powered
Special Features	Adjustable Brightness, Alarm, Clock, Large Display
Material	Acrylonitrile Butadiene Styrene (ABS)
Connectivity Technology	RF (Radio Frequency)
Color	Black
Included Components	Rain Gauge, Outdoor Sensor, Mounting Hardware
Temperature Accuracy	1 °C

10. Warranty and Support

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