

## Davis Instruments 6357

# Davis Instruments 6357 Vantage Vue Wireless Sensor Suite Instruction Manual

Your guide to setting up, operating, and maintaining your weather station.

## 1. INTRODUCTION

---

The Davis Instruments 6357 Vantage Vue Wireless Sensor Suite is an integrated outdoor sensor system designed to provide accurate, real-time weather data. This suite measures temperature, humidity, rainfall, wind speed, and wind direction. It transmits data wirelessly to a compatible console (sold separately) with updates every 2.5 seconds, offering reliable environmental monitoring.



Figure 1: The Davis Instruments 6357 Vantage Vue Wireless Sensor Suite.

## 2. SETUP

---

### 2.1 Unpacking

Carefully remove all components from the packaging. Verify that you have the integrated sensor suite, mounting hardware, and the included lithium battery. Inspect all parts for any signs of damage.

### 2.2 Mounting the Sensor Suite

The sensor suite requires a mounting pole (sold separately) for optimal placement. Choose a location that provides clear exposure to the elements for accurate readings. Ensure the anemometer has unobstructed wind flow, and the rain collector is not beneath any overhangs. The radiation shield should be in a location that minimizes direct sunlight exposure to prevent inaccurate temperature readings.



Figure 2: Example of the sensor suite mounted on a pole.

## 2.3 Powering On

The sensor suite is primarily solar-powered. The integrated solar panel charges an onboard super capacitor during the day, which powers the unit at night. A backup lithium battery is included and will activate if the super capacitor's charge falls below a critical level, ensuring continuous operation.

## 2.4 Console Pairing

Once mounted and powered, the sensor suite will begin transmitting data. Refer to your Davis Instruments console's instruction manual for specific steps on how to pair it with the sensor suite and begin receiving data.

# 3. OPERATION

---

## 3.1 Data Measurement

- **Temperature and Humidity:** The integrated radiation shield provides protection for accurate ambient temperature and humidity readings.
- **Rainfall:** The rain collector offers a precision of 0.01 inches (0.2 mm).
- **Wind Speed and Direction:** The anemometer is wind-tunnel-tested up to 180 mph (290 kmh) for reliable wind data.

## 3.2 Wireless Transmission

The sensor suite transmits data wirelessly to your console up to 1000 feet (300 meters) away. Data updates occur every 2.5 seconds, providing near real-time information.

# 4. MAINTENANCE

---

## 4.1 Cleaning the Rain Collector

Periodically inspect and clean the rain collector to ensure accurate rainfall measurements. Debris, such as leaves or bird droppings, can obstruct the tipping bucket mechanism. To clean, carefully remove any foreign material from the funnel and tipping bucket. Use a soft cloth and water if necessary.

## 4.2 Battery Replacement

The sensor suite includes a backup lithium battery. While the solar panel and super capacitor handle most power needs, the lithium battery may require replacement after several years of use. Consult the detailed instructions provided with your sensor suite for the specific battery type and replacement procedure.

### 4.3 General Care

Regularly check the sensor suite for any physical damage or obstructions. Ensure the solar panel is clean and free of dirt or snow to maximize charging efficiency. Keep the area around the anemometer clear for accurate wind readings.

## 5. TROUBLESHOOTING

### 5.1 No Data Transmission

- Verify the backup lithium battery is installed correctly and has sufficient charge.
- Ensure the solar panel is receiving adequate sunlight.
- Check that the sensor suite is within the 1000 ft (300 m) transmission range of your console and that there are no major obstructions (e.g., thick walls, large metal objects) between them.
- Confirm your console is properly paired with the sensor suite.

### 5.2 Inaccurate Readings

- **Rainfall:** Clean the rain collector to remove any debris that might be affecting the tipping bucket.
- **Wind:** Ensure the anemometer is free from obstructions and can rotate freely.
- **Temperature/Humidity:** Check that the radiation shield is clean and not obstructed, allowing for proper airflow.

### 5.3 Power Issues

- Ensure the solar panel is clean and exposed to direct sunlight for several hours daily.
- If the unit consistently loses power at night, the super capacitor may be failing or the backup lithium battery may need replacement.

## 6. TECHNICAL SPECIFICATIONS

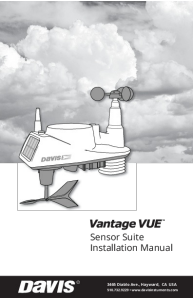
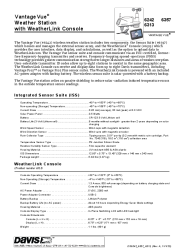

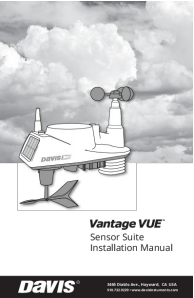
Feature	Detail
Model Number	06357
Product Dimensions	7.25 x 17.5 x 15.25 inches
Weight	4.25 Pounds
Power Source	Solar Powered with Lithium Metal Battery Backup
Connectivity Technology	Radio Frequency
Rain Collector Precision	0.01 inches (0.2 mm)
Anemometer Wind Speed Rating	Up to 180 mph (290 kmh)
Wireless Transmission Range	Up to 1000 ft (300 m)
Data Update Frequency	Every 2.5 seconds
Material	Plastic
Color	White

## 7. WARRANTY AND CUSTOMER SUPPORT

The Davis Instruments 6357 Vantage Vue Wireless Sensor Suite typically comes with a one-year manufacturer's warranty covering defects in materials and workmanship. For specific warranty details, claims, or technical assistance, please contact Davis Instruments customer support directly. Keep your proof of purchase for warranty validation.

For further assistance, visit the official Davis Instruments website or consult the support section for your product model.

### Related Documents - 6357

	<p><a href="#">Davis Vantage Vue Sensor Suite Installation Manual</a></p> <p>Comprehensive installation manual for the Davis Vantage Vue wireless sensor suite, covering component setup, optimal siting, mounting procedures, and troubleshooting for accurate weather data collection.</p>
	<p><a href="#">Davis Vantage Vue Weather Station with WeatherLink Console Specifications</a></p> <p>Comprehensive specifications for the Davis Vantage Vue wireless weather station, including the Integrated Sensor Suite (ISS) and WeatherLink Console. Details cover operating conditions, measurement ranges, accuracy, update intervals, and wireless communication for this advanced weather monitoring system.</p>
	<p><a href="#">Davis Instruments VANTAGE PRO2 Active Plus Wireless Weather Station User Manual</a></p> <p>Comprehensive user manual for the Davis Instruments VANTAGE PRO2 Active Plus wireless weather station (EU 6263EU), covering installation, setup, operation, maintenance, and troubleshooting.</p>
	<p><a href="#">Davis Vantage Vue Sensor Suite Installation Manual</a></p> <p>A comprehensive guide for installing the Davis Vantage Vue wireless sensor suite. Learn about component setup, optimal mounting locations, maintenance, and troubleshooting for accurate weather data collection.</p>



### [Davis Instruments Vantage Vue Quick Setup Guide](#)

Step-by-step instructions for setting up the Davis Instruments Vantage Vue weather station, including sensor suite preparation, app connection, and mounting.



### [Davis Vantage Vue Console Manual 6351 - Setup, Operation, and Troubleshooting](#)

Comprehensive user manual for the Davis Vantage Vue 6351 wireless weather station console. Covers installation, setup, operation modes, weather variable display, calibration, troubleshooting, and specifications.