

ECOWITT HP10

ECOWITT WittCam Outdoor Weather Camera HP10 User Manual

Model: HP10 | Brand: ECOWITT

1. INTRODUCTION

The ECOWITT WittCam HP10 is an outdoor weather camera designed for continuous monitoring of various environmental conditions. It is suitable for observing plant growth, weather changes, water levels, and other outdoor phenomena. Featuring IP66 waterproofing and a 150-degree wide-angle lens, the camera connects via Wi-Fi for remote access and data management through a dedicated app and website.



Figure 1: Front view of the ECOWITT WittCam HP10 Outdoor Weather Camera.

2. PRODUCT OVERVIEW

2.1. Components

- **WittCam HP10 Camera Unit:** The main camera device.
- **Mounting Base:** For securing the camera to a surface.
- **USB Power Cord:** Provides power to the camera.
- **User Manual:** This instruction guide.

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Figure 2: The ECOWITT WittCam HP10 camera connected to its USB power cable.

2.2. Key Features

- **Picture Hosting:** Images are hosted on www.ecowitt.net, with automatic time-elapsd video generation for daily activity.
- **HTTP GET Command Support:** Allows retrieval of the last taken picture.
- **Wireless Connectivity:** Supports 2.4 GHz Wi-Fi (802.11 b/g/n) with a transmission distance of up to 30 meters (100 feet) in open fields.
- **Durability:** IP66 waterproof rating ensures protection against dust and strong jets of water.
- **Wide Angle Lens:** 150-degree wide-angle view for comprehensive monitoring.
- **High Resolution:** 1080p video capture resolution.
- **App Control:** Manage and view camera feeds via a dedicated mobile application.
- **No Local Storage:** The camera does not support Micro SD card storage.



Figure 3: Key features of the WittCam HP10, including Wi-Fi connectivity and wide-angle lens.

3. SETUP

3.1. Unboxing and Initial Inspection

Carefully unpack all components and verify that the following items are included:

- ECOWITT WittCam HP10 Camera
- Mounting Base
- USB Power Cord (approximately 2 meters / 6.56 feet)
- Quick Start Guide / User Manual (digital version available via QR code or at [s.ecowitt.com/JC83NU](https://www.ecowitt.com/JC83NU))



Figure 4: The WittCam HP10 packaging and included items.

3.2. Physical Installation

1. **Choose a Location:** Select an outdoor location that provides a clear view of the area you wish to monitor. Ensure the location is within range of your 2.4 GHz Wi-Fi network.
2. **Mount the Camera:** Use the provided mounting base to securely attach the camera to a wall or other stable surface. Ensure the camera is positioned to capture the desired field of view.
3. **Connect Power:** Connect the USB power cord to the camera and plug it into a suitable power source. The camera requires a continuous power supply.

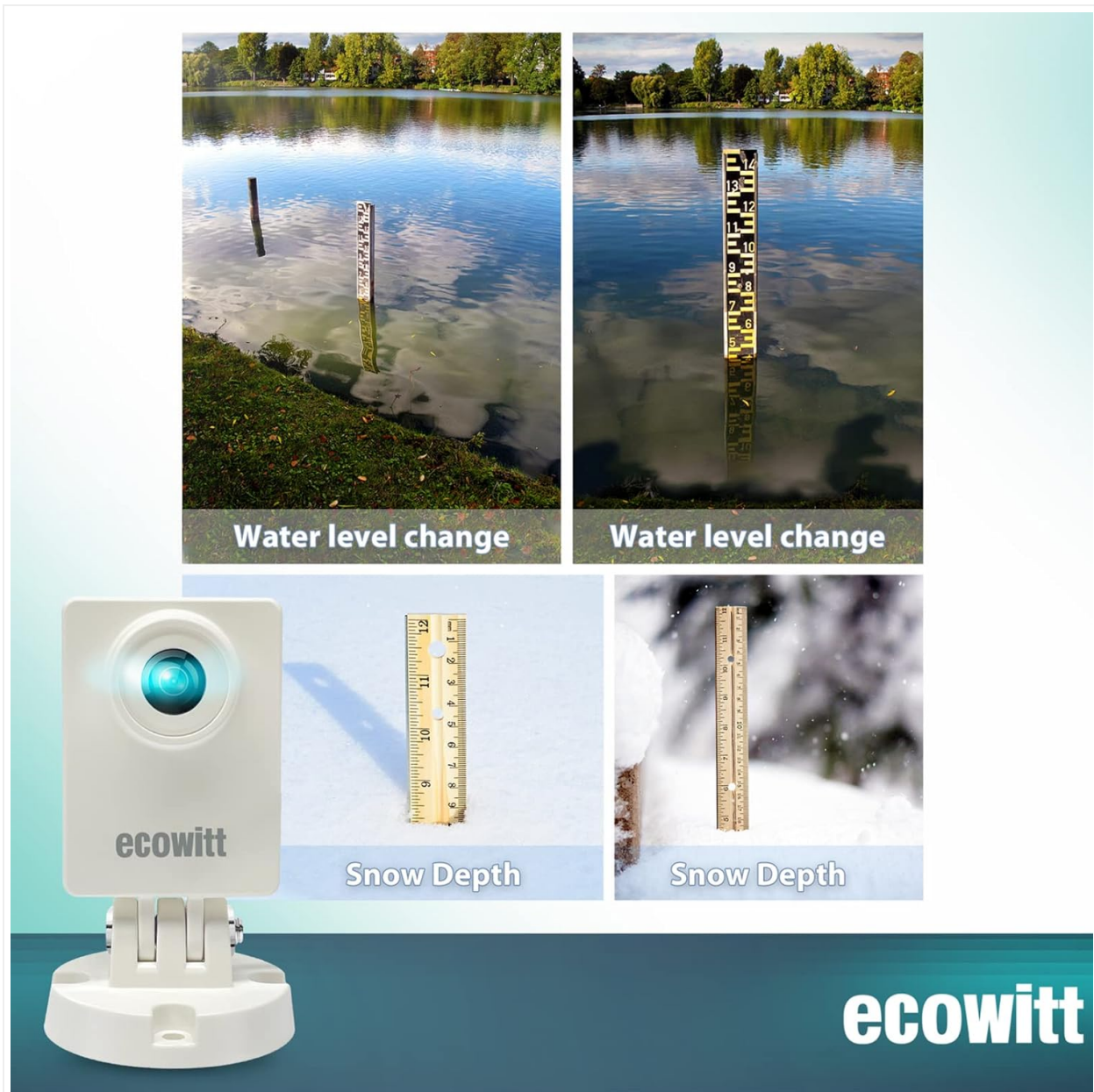


Figure 5: Example of the WittCam HP10 mounted outdoors for environmental monitoring.

3.3. Wi-Fi Connection and App Integration

1. **Download the App:** Search for the "ECOWITT" app on your smartphone's app store (iOS or Android) and install it.
2. **Create an Account:** Open the ECOWITT app and follow the instructions to create a new account or log in if you already have one.
3. **Add Device:** In the app, select the option to add a new device. Follow the on-screen prompts to connect your WittCam HP10 to your 2.4 GHz Wi-Fi network. This typically involves scanning a QR code on the camera or entering Wi-Fi credentials.
4. **Verify Connection:** Once connected, the camera's status indicator should confirm a successful Wi-Fi connection. You should be able to view live snapshots or recent images within the app.



Figure 6: The WittCam HP10 indicating a strong Wi-Fi signal.

4. OPERATING INSTRUCTIONS

4.1. Monitoring Capabilities

The WittCam HP10 is designed for various monitoring applications:

- **Plant Growth:** Observe the development of plants over time.
- **Weather Changes:** Monitor cloud formations, precipitation, and other atmospheric conditions.
- **Water Level:** Track changes in water bodies or containers.
- **Snow Depth:** Measure snow accumulation.



Figure 7: Monitoring plant growth stages with the WittCam HP10.



Figure 8: Examples of monitoring weather conditions and seedlings.



Figure 9: The WittCam HP10 observing an agricultural environment.

4.2. Picture Hosting and Time-Lapse Video

The camera uploads pictures to www.ecowitt.net. The website organizes received pictures for the current day. If the time exceeds 24 hours, it automatically generates a time-elapsd video for easier review of changes.

4.3. HTTP GET Command

The camera supports HTTP GET commands for reading the last picture taken. To utilize this feature, the device's IP address must be obtained.

5. MAINTENANCE

- **Lens Cleaning:** Periodically clean the camera lens with a soft, damp cloth to ensure clear image quality. Avoid abrasive materials.
- **Power Connection:** Regularly check that the USB power cord is securely connected to both the camera and the power source.
- **Wi-Fi Signal:** Ensure the camera maintains a stable Wi-Fi connection. If signal strength is low, consider repositioning the camera or Wi-Fi router.
- **Operating Temperature:** The camera is designed to operate within a temperature range of 0°C to 50°C (32°F to 122°F).

6. TROUBLESHOOTING

- **Camera Not Connecting to Wi-Fi:**
Ensure your Wi-Fi network is 2.4 GHz. Verify the Wi-Fi password. Move the camera closer to the router. Restart both the camera and your router.
- **No Images or Snapshots in App/Website:**
Check the camera's power supply and Wi-Fi connection. Confirm the camera is properly added to your

ECOWITT account. Allow some time for images to upload, as the camera primarily takes snapshots, not live streaming video.

- **Image Quality Issues:**
Clean the camera lens. Ensure there are no obstructions in the camera's field of view.
- **No Night Vision:**
Please note that this camera does not feature dedicated night vision capabilities. It is primarily designed for daytime monitoring.
- **Difficulty with Setup:**
Refer to the digital user manual at s.ecowitt.com/JC83NU for detailed setup instructions. Ensure all steps are followed precisely.

7. SPECIFICATIONS

| Feature | Specification |
|---------------------------------|---------------------------|
| Model Number | HP10 |
| Power Source | Corded Electric |
| Connectivity Protocol | Wi-Fi (2.4 GHz) |
| Mounting Type | Wall Mount |
| Video Capture Resolution | 1080p |
| Color | White |
| International Protection Rating | IP66 |
| Control Method | App |
| Item Weight | 8.2 ounces |
| Package Dimensions | 5.94 x 4.88 x 2.28 inches |
| Flash Memory Type | NO Micro SD |
| Focus Type | Manual Focus |
| Video Capture Format | MPEG-4 |
| Recommended Uses | Monitoring |
| Special Feature | Remote Control |
| Compatible Devices | Ecowitt WiFi Gateway |

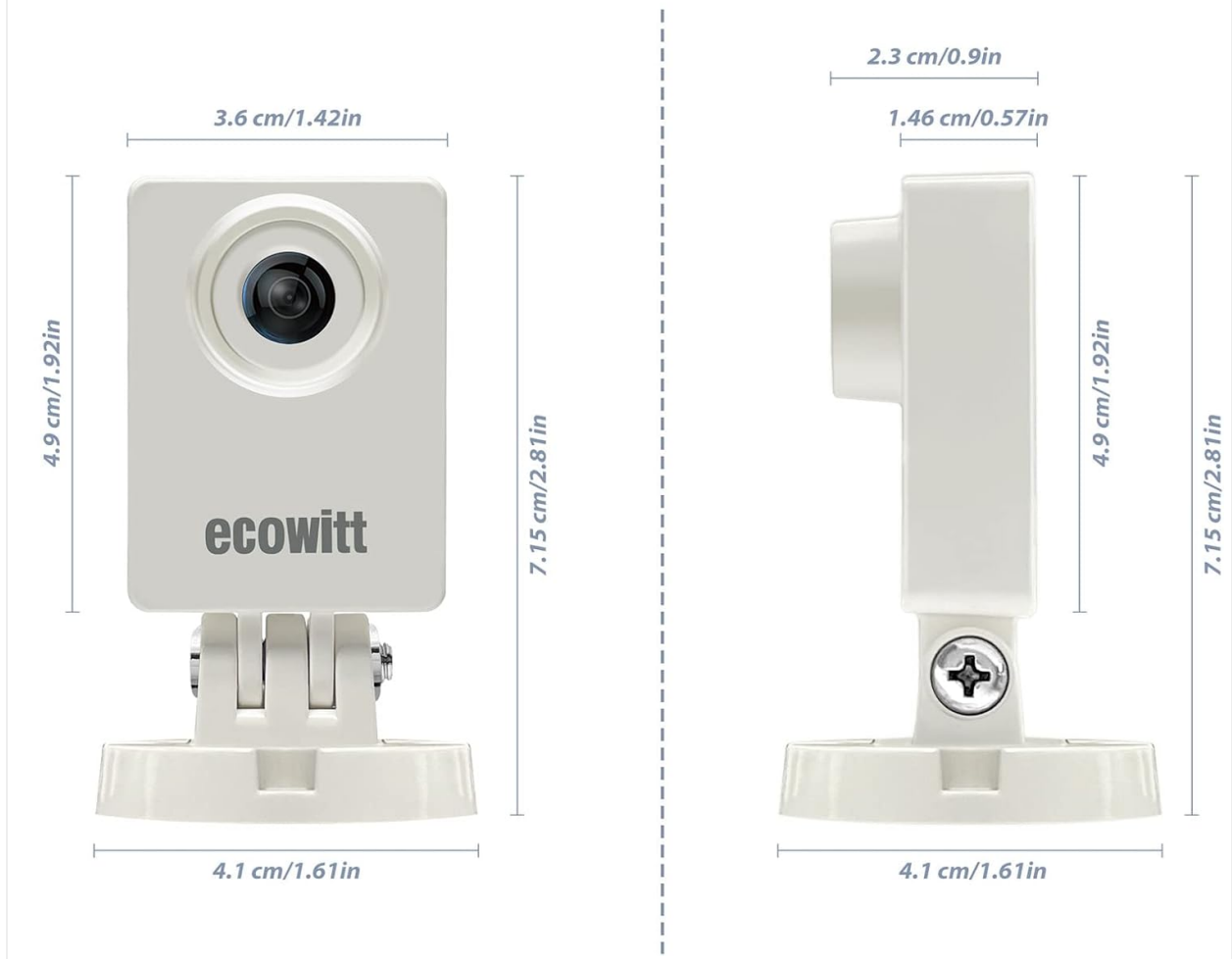





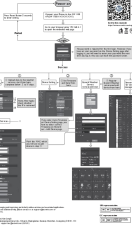


Figure 10: Dimensions of the ECOWITT WittCam HP10.

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official ECOWITT website. For technical support, frequently asked questions, and additional resources, please visit www.ecowitt.net.

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|  <p>Weather Station Console Manual Model: WS2910 https://www.ecowitt.com/WS2910</p> | <p>Ecowitt WS2910 Weather Station Console Manual - Setup & Operation Guide</p> <p>Comprehensive user manual for the Ecowitt WS2910 Weather Station Console. This guide details setup, features, Wi-Fi connectivity, app integration, sensor management, troubleshooting, and specifications for accurate weather monitoring.</p> |
|  <p>Weather Station Receiver Manual Model: WS3900/WS3910 https://www.ecowitt.com/WS3900</p> | <p>Ecowitt WS3900/WS3910 Weather Station Receiver User Manual</p> <p>Comprehensive user manual for the Ecowitt WS3900/WS3910 Wi-Fi LCD weather station receiver, detailing installation, setup, features, and operation for monitoring indoor and outdoor environmental conditions. Learn how to connect, configure, and utilize this advanced weather monitoring system.</p> |
|  <p>COLOR DISPLAY WIFI WEATHER STATION Operation Manual Model: WS2910 Thank you for purchasing the Color Display Wi-Fi Weather Station. This device provides accurate weather readings and a 10.4" display to monitor data from the weather station to Internet and weather services. This manual will guide you through the setup, including setting up your weather station, connecting it to the Internet, and configuring the operation of your weather station. For the most accurate weather data, please use professional weather stations and use it for data reference.</p> | <p>Ecowitt WS2910 Color Display Wi-Fi Weather Station Operation Manual</p> <p>This operation manual provides comprehensive guidance for the Ecowitt WS2910 Color Display Wi-Fi Weather Station, covering setup, features, Wi-Fi connectivity to services like Ecowitt.net and Wunderground.com, and troubleshooting for accurate home weather monitoring.</p> |
|  <p>COLOR DISPLAY WIFI WEATHER STATION Operation Manual Model: WS2910 Thank you for purchasing the Color Display Wi-Fi Weather Station. This device provides accurate weather readings and a 10.4" display to monitor data from the weather station to Internet and weather services. This manual will guide you through the setup, including setting up your weather station, connecting it to the Internet, and configuring the operation of your weather station. For the most accurate weather data, please use professional weather stations and use it for data reference.</p> | <p>Ecowitt WS2910 Color Display Wi-Fi Weather Station Operation Manual</p> <p>Comprehensive operation manual for the Ecowitt WS2910 Color Display Wi-Fi Weather Station, covering setup, features, operation, and troubleshooting for accurate home weather monitoring.</p> |
|  <p>4G & Wi-Fi Weather Station Mobile Gateway with External RF Antenna Model: WS6210S https://www.ecowitt.com/WS6210S</p> | <p>Ecowitt WS6210S 4G & Wi-Fi Weather Station Mobile Gateway User Manual</p> <p>Comprehensive user manual for the Ecowitt WS6210S 4G & Wi-Fi Weather Station Mobile Gateway with External RF Antenna. Learn about installation, setup, features, specifications, and troubleshooting.</p> |
|  <p>GW1100 Quick Start Guide A concise guide to setting up and connecting the Ecowitt GW1100 Wi-Fi Weather Station Gateway with various sensors. Covers initial power-on, network connection, weather service registration, and sensor compatibility.</p> | <p>Ecowitt GW1100 Wi-Fi Weather Station Quick Start Guide</p> <p>A concise guide to setting up and connecting the Ecowitt GW1100 Wi-Fi Weather Station Gateway with various sensors. Covers initial power-on, network connection, weather service registration, and sensor compatibility.</p> |

