VIHELM SW-M500

VIHELM SW-M500 Portable Handheld Telescope Rangefinder User Manual

Model: SW-M500

1. Introduction

The VIHELM SW-M500 is a portable handheld telescope rangefinder designed for accurate distance measurement in various outdoor activities, including golf, hunting, and construction. This device combines the functionality of a telescope with advanced ranging capabilities, offering precise measurements up to 500 meters. It features multiple measurement modes, including single ranging, continuous measurement, height measurement, angle measurement, and golf trajectory compensation.

2. Package Contents

Upon opening the package, please verify that all the following items are included:

- VIHELM SW-M500 Telescope Rangefinder
- USB Charging Cable
- Wrist Strap
- Protective Carrying Pouch
- User Manual



Figure 2.1: Contents of the SW-M500 package, showing the rangefinder, charging cable, wrist strap, protective pouch, and user manual.

3. Product Features

The SW-M500 rangefinder is equipped with several features designed for precision and ease of use:

- **High Accuracy:** Provides distance measurements with an accuracy of ±(1.0m+D*0.2%).
- **Multiple Measurement Modes:** Supports single ranging, continuous measurement, height measurement, angle measurement, and golf trajectory compensation.
- **Flagpole Locking with Vibration:** The device vibrates to confirm successful target lock, ensuring reliable data.
- **Fast Measurement Speed:** Measures distances in less than 0.5 seconds.
- **Compact and Durable Design:** Ergonomic grip, strong and sturdy plastic construction.
- **Built-in Rechargeable Battery:** Features a 750mAh Li-ion battery.
- **IP54 Water Resistance:** Offers protection against splashing water from any direction.

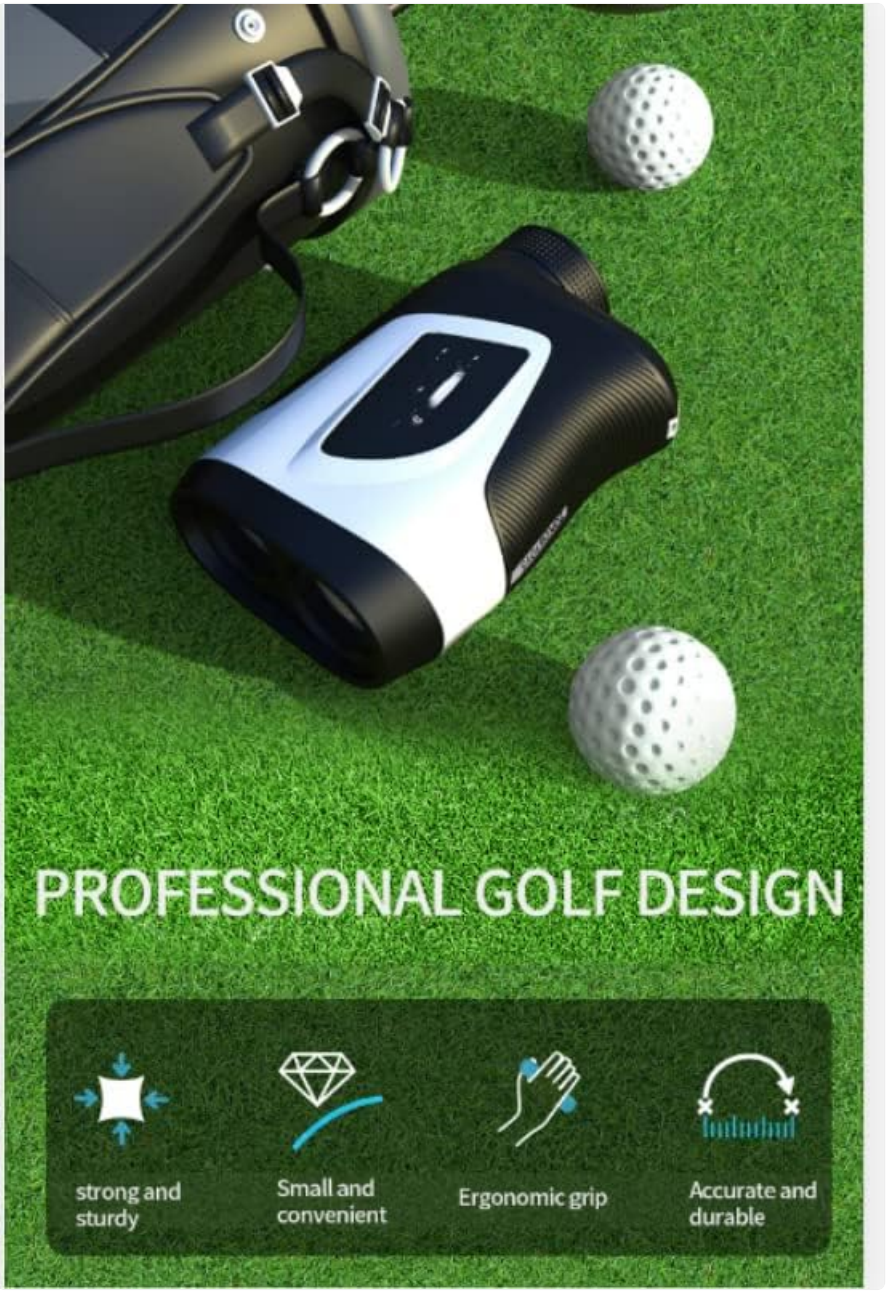


Figure 3.1: Professional golf design of the SW-M500, emphasizing its robust, compact, ergonomic, and durable characteristics.



Figure 3.2: The device provides vibration feedback upon successful target lock, enhancing measurement reliability.

4. Setup

4.1 Charging the Device

Before initial use, ensure the SW-M500 is fully charged. Connect the provided USB charging cable to the charging port on the device and plug the other end into a standard USB power adapter (not included) or a computer's USB port. The charging indicator will show the charging status.



Figure 4.1: Connecting the SW-M500 to the USB charging cable.

4.2 Powering On/Off

To power on the device, press and hold the power button (usually marked with a power symbol or "MODE"). The internal display will activate. The device will automatically shut down if no button is pressed within 20 seconds to conserve battery.

5. Operating Instructions

5.1 Basic Measurement

1. **Power On:** Press the power button to turn on the device. The internal display will show the standby interface.
2. **Aim:** Look through the eyepiece and aim the crosshairs at your desired target.
3. **Measure:** Press the power button again to initiate a measurement. The measured distance will be displayed on the screen.
4. **Automatic Shutdown:** If no operation is performed for 20 seconds, the device will automatically power off.



Figure 5.1: Flowchart illustrating the power-on, standby, measurement, and auto-shutdown sequence.

5.2 Rotary Focusing

Adjust the focus by rotating the eyepiece until the image appears clear and sharp. This ensures optimal visibility of the target and display readings.

6. Measurement Modes

The SW-M500 offers various measurement modes to suit different applications:

- **Single Ranging:** Measures the direct distance to a single target.
- **Continuous Measurement:** Provides real-time distance updates as you scan across multiple targets or move the device.
- **Height Measurement:** Calculates the vertical height of an object.
- **Angle Measurement:** Determines the angle of inclination or declination to a target.
- **Golf Trajectory Compensation (Slope Measurement):** Automatically calculates and displays the compensated distance for uphill or downhill shots, providing an adjusted distance based on the slope.
- **Target Lock (Flagpole Locking):** Identifies and locks onto the closest target, such as a flagpole, and provides vibration feedback upon successful lock.



Figure 6.1: The SW-M500 supports various measurement modes for diverse applications, including golf, hunting, and general outdoor use.

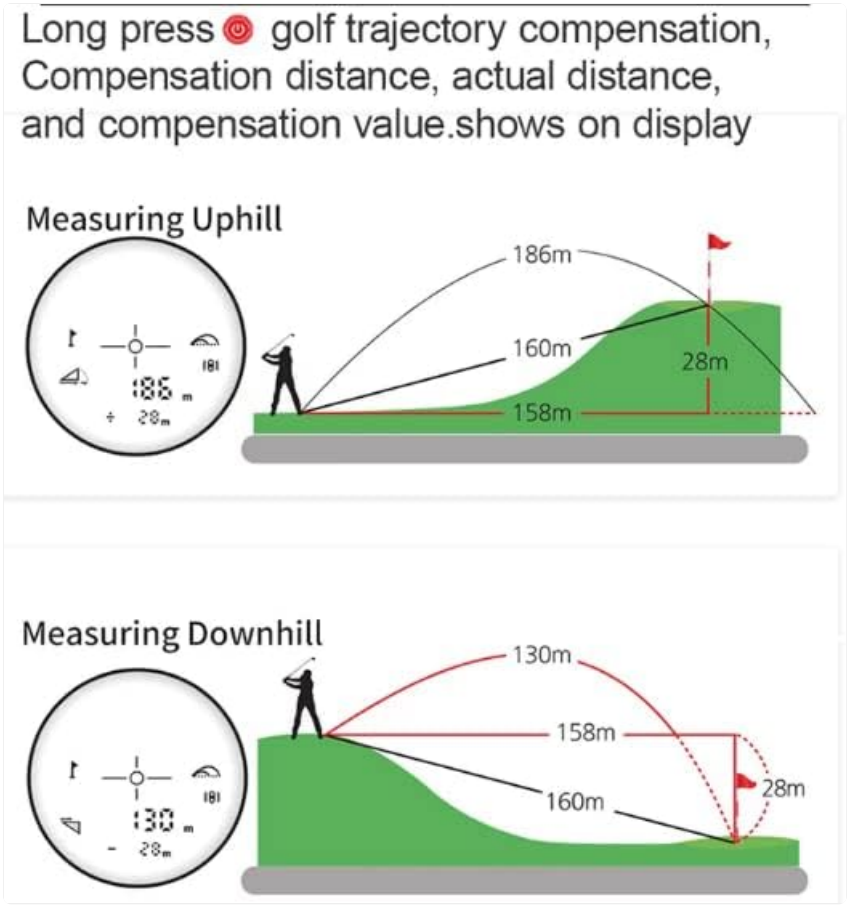


Figure 6.2: Golf trajectory compensation in action, demonstrating how the device calculates compensated distances for uphill and downhill slopes.

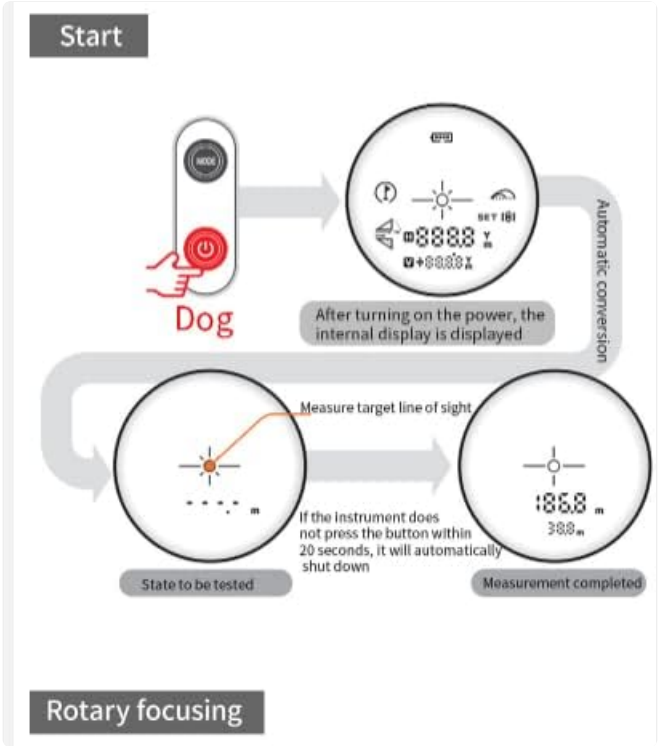


Figure 6.3: Indirect measurement capabilities, allowing calculation of relative height and horizontal distance even with environmental challenges.

7. Maintenance

Proper maintenance will extend the life of your SW-M500 rangefinder:

- **Cleaning:** Use a soft, clean cloth to wipe the exterior of the device. For lenses, use a lens cleaning cloth and solution specifically designed for optical surfaces. Avoid abrasive materials.
- **Storage:** Store the device in its protective pouch in a cool, dry place when not in use. Avoid extreme temperatures and high humidity.
- **Battery Care:** Recharge the battery regularly, even if the device is not used frequently, to maintain battery health. Do not attempt to replace the built-in battery.
- **Water Resistance:** While the device is IP54 water-resistant, it is not waterproof. Do not submerge it in water or expose it to heavy rain.

8. Troubleshooting

If you encounter issues with your SW-M500, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device fully. If problem persists, contact customer support.
Inaccurate measurements.	Unstable aim; poor visibility; incorrect mode.	Ensure a steady aim. Measure in clear conditions. Verify the correct measurement mode is selected.
Display is dim or unclear.	Low battery; focus not adjusted.	Charge the device. Adjust the rotary focusing ring until the display is clear.
Device shuts off unexpectedly.	Auto-shutdown feature; low battery.	This is normal if no operation for 20 seconds. Charge the device if battery is low.

If the issue is not resolved by the above steps, please contact VIHELM customer support for further assistance.

9. Specifications

Detailed technical specifications for the VIHELM SW-M500:

Model	SW-M500
Working Range	3-500M
Magnification	6.0X±5%
Unit Selection	M, Y
Field of View	7°±5%
Distance Accuracy	±(1.0m+D*0.2%)
Slope Measurement	Yes
Height Measurement	Yes
Flagpole Locking	Yes
Dioptre Adjustable Range	±6°
Objective Caliber	19mm

Eyepiece Caliber	15mm
Exit Pupil Caliber	3.7mm
Battery	750mAh Li-ion (Built-in)
Water Resistant	IP54
Measuring Speed	<0.5s
Automatic Turn Off	Yes
Product Weight / Size	161g / 105*66.4*38mm

10. Warranty and Support

The VIHELM SW-M500 comes with a **1-year warranty** from the date of purchase, covering defects in materials and workmanship. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.
For warranty claims, technical support, or any questions regarding your device, please contact VIHELM customer service. Keep your purchase receipt as proof of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question