Sunding SD-576A

Sunding SD-576A Bicycle Computer User Manual

28 Function Touch Button Rainproof Back Light Multi Function Bicycle Meter

1. INTRODUCTION

Thank you for choosing the Sunding SD-576A Bicycle Computer. This device is designed to provide comprehensive cycling data, enhancing your riding experience with its 28 functions, large LCD screen, touch button interface, and rainproof design. Please read this manual carefully before installation and use to ensure optimal performance and longevity of your device.

Image 1.1: The Sunding SD-576A Bicycle Computer display showing various metrics.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Sunding SD-576A Bicycle Computer Unit
- Mounting Base with Wired Sensor
- Wheel Magnet
- Cable Ties (for installation)
- CR2032 Batteries (pre-installed or included separately)

Image 2.1: All components included with the Sunding SD-576A Bicycle Computer.

3. SETUP AND INSTALLATION

3.1. Battery Installation

The unit typically comes with batteries pre-installed. If not, or if replacement is needed:

1. Open the battery compartment cover on the back of the computer unit.
2. Insert the CR2032 battery with the positive (+) side facing up.
3. Close the battery compartment cover securely.

3.2. Mounting the Computer and Sensor

1. Attach the mounting base to your bicycle handlebar or stem using the provided cable ties. Ensure it is secure and the display is easily visible.
2. Insert the bicycle computer unit into the mounting base until it clicks into place.
3. Mount the wired speed sensor to the front fork of your bicycle using cable ties. Position it so that the sensor head is aligned with the wheel magnet.
4. Attach the wheel magnet to a spoke on your front wheel.
5. Adjust the position of the sensor and magnet so that the gap between them is less than 2mm when the wheel rotates. This is crucial for accurate speed readings.
6. Route the sensor wire along the brake cable or fork, securing it with cable ties to prevent interference with moving parts.

Image 3.1: The Sunding SD-576A Bicycle Computer mounted on a bicycle handlebar.

3.3. Initial Settings (Wheel Circumference)

Accurate speed and distance readings depend on correct wheel circumference settings.

1. In the initial setup or settings mode, press the **MODE** button to navigate to the wheel circumference setting.
2. Use the **SET** button to adjust the digits.
3. Refer to the table below for common wheel circumferences. If your wheel size is not listed, measure it manually (in mm).
4. Press **MODE** again to confirm and move to the next setting (e.g., ODO initial value, clock).

Common Wheel Circumferences

Wheel Size	Circumference (mm)
16 inch	1261
18 inch	1416
20 inch	1596
24 inch	1907
26 inch	2073
27 inch	2155
27.5 inch	2180
29 inch	2326
700C	2136

4. OPERATION

The Sunding SD-576A features a touch button interface and a remote button for mode changes. The main display shows various functions, which can be cycled through using the **MODE** button.

4.1. Functions Overview

- **SPD**: Current Speed
- **ODO**: Odometer (Total Distance)
- **DST**: Trip Distance
- **MXS**: Maximum Speed
- **AVS**: Average Speed
- **TTM**: Total Trip Time
- **TM**: Trip Time
- **RAT**: Riding All Time
- **CLK**: Clock (12H/24H)
- **SW**: Stopwatch
- **Temperature**: Current Ambient Temperature
- **TM UP/DN**: Trip Time Up/Down
- **Trip UP/DN**: Trip Distance Up/Down
- **Comparator**: Speed comparison indicator
- **Maintenance Alert**: Reminder for bicycle maintenance
- **Care Reminder**: General care reminder
- **Over-Speed Reminder**: Alerts when exceeding a set speed
- **Low Battery Indicator**: Notifies when battery is low
- **Freeze Frame Memory**: Records data at a specific point
- **Smart Backlight**: Automatic backlight activation

4.2. Mode and Set Buttons

The device features a touch-sensitive area at the bottom, functioning as the **MODE** button, and a separate **SET** button. A remote button may also be available for convenient mode switching.

- **MODE Button**: Press to cycle through different display functions. Hold to enter settings mode for the current function.
- **SET Button**: Used to adjust values when in settings mode.
- **Remote Button**: If included, press to cycle through display modes without touching the main unit.

4.3. Backlight Function

The SD-576A features a smart backlight that can be set to auto on/off. It provides clear visibility in low-light conditions.

Image 4.1: Comparison of the Sunding SD-576A display in Day Mode (without backlight) and Night Mode (with green backlight activated).

5. MAINTENANCE

To ensure the longevity and accuracy of your Sunding SD-576A Bicycle Computer, follow these

maintenance guidelines:

- **Cleaning**: Wipe the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Rainproof Design**: The unit is rainproof, but avoid submerging it in water or exposing it to high-pressure water jets.
- **Battery Replacement**: When the low battery indicator appears, replace the CR2032 battery promptly to avoid data loss.
- **Sensor**/**Magnet Alignment**: Periodically check the alignment and gap (less than 2mm) between the sensor and magnet for consistent readings.
- **Storage**: If storing the bicycle for an extended period, remove the computer unit from its mount to conserve battery life.

6. TROUBLESHOOTING

If you encounter issues with your bicycle computer, refer to the following common problems and solutions:

- **No Speed Reading / Inaccurate Readings**:
  - Check the distance between the sensor and the wheel magnet. It must be less than 2mm.
  - Ensure the sensor and magnet are correctly aligned.
  - Verify the sensor wire is securely connected to the mounting base.
  - Check the battery level.

- **Display Not Working / Faint Display**:
  - Replace the battery.
  - Ensure the unit is properly seated in the mounting base.

- **Incorrect Odometer (ODO) or Trip Distance (DST)**:
  - Verify that the wheel circumference setting is correct.
  - Ensure the sensor and magnet are functioning correctly.

- **Buttons Unresponsive**:
  - Ensure the unit is clean and free from debris around the touch button area.
  - Try removing and reinserting the battery to reset the device.

7. SPECIFICATIONS

Feature	Detail
Brand	Sunding
Model	SD-576A
Functions	28 Functions
Display Type	LCD with Backlight
Connectivity	Wired
Sensor Type	Speed Sensor, Odometer
Human Interface Input	Touch Button, Remote Button

Feature	Detail
Power Source	Battery Powered
Battery Type	CR2032 Lithium Metal
Material Type	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	100 Grams
Mounting Type	Handlebar Mount
Special Features	Rainproof, Smart Backlight, Touch Screen

8. WARRANTY AND SUPPORT

Sunding products are manufactured to high-quality standards. For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.