M-Wave M16

M-Wave M16 Bicycle Computer User Manual

Model: M16 | Brand: M-Wave

INTRODUCTION

The M-Wave M16 Bicycle Computer is designed to enhance your cycling experience by providing essential data. This device features 16 informative functions, including current, average, and maximum speed, various timers, odometers, and a freeze frame memory. Its user-friendly design allows for tool-free mounting, making installation quick and simple. The M16 is a reliable companion for tracking your rides and understanding your performance.

Image: Front view of the M-Wave M16 Bicycle Computer, displaying speed and temperature.

KEY FEATURES

- **16 Functions:** Includes current/average/maximum speed, timers, odometers, and freeze frame memory.
- **User-Friendly Buttons:** Large and easy to operate while cycling.

- **Adjustable Wheel Size:** Allows for accurate readings across different bicycle types.

- **Digital Clock:** Integrated time display.

- **Metric/English Conversion:** Switch between kilometers and miles.

- **Auto Power On/Off:** Conserves battery life.

- **Tool-Free Mounting:** Simple installation on handlebars or stem.

- **IP44 Ingress Protection:** Protected against solid objects larger than 1mm and splashing water from any direction.

- **Batteries Included:** Ready for immediate use.

SETUP

1. Unboxing and Initial Inspection

Carefully remove the M-Wave M16 Bicycle Computer and its components from the packaging. Inspect all parts for any signs of damage. The package should include the computer unit, mounting bracket, speed sensor, magnet, and batteries.

Image: M-Wave M16 Bicycle Computer shown in its retail packaging, highlighting its 16 functions.

2. Battery Installation

The M-Wave M16 comes with batteries included. Locate the battery compartment on the back of the unit. Use a small coin or screwdriver to open the compartment cover. Insert the battery(ies) according to the polarity indicators (+/-). Close the compartment securely.

3. Mounting the Computer

The M16 features a tool-free mounting system. Attach the mounting bracket to your bicycle's handlebar or stem using the provided straps or zip ties. Ensure it is securely fastened and positioned for easy viewing while riding.

4. Installing the Speed Sensor and Magnet

Mount the speed sensor on the front fork of your bicycle, aligning it with the spokes. Attach the magnet to a spoke on the front wheel. Adjust the position of both the sensor and magnet so that the magnet passes closely by the sensor (typically within 3-5mm) with each wheel rotation. Ensure the sensor is firmly attached and does not interfere with wheel rotation.

5. Initial Settings (Wheel Size, Units, Time)

Upon first power-on or after battery replacement, you will need to configure basic settings:

- **Wheel Size:** Refer to your bicycle tire's sidewall for its diameter (e.g., 700c, 26 inches) and consult the manual's wheel circumference chart (if provided, otherwise common values are available online) to input the correct value. This is crucial for accurate speed and distance measurements.
- **Units:** Select between metric (km/h, km) or imperial (mph, miles) units.
- **Clock:** Set the current time.

Use the "Set" and "Mode" buttons to navigate through the settings and confirm your selections. Consult the detailed instructions provided with your product for specific button sequences.

OPERATING INSTRUCTIONS

The M-Wave M16 Bicycle Computer is designed for intuitive operation with its two main buttons: "Set" and "Mode".

Image: Close-up view of the M-Wave M16 display, showing current speed (37.0 KM/hr) and temperature (26.2°C).

Button Functions:

- **Mode Button:** Press to cycle through the various display functions (e.g., Current Speed, Average Speed, Max Speed, Trip Distance, Odometer, Ride Time, Clock, Temperature).
- **Set Button:** Used for entering and confirming settings, resetting trip data, or accessing specific function sub-menus.

Available Functions (16 Total):

1. Current Speed (SPD)
2. Average Speed (AVS)
3. Maximum Speed (MXS)
4. Trip Distance (DST)
5. Total Odometer (ODO)
6. Trip Ride Time (TM)
7. Total Ride Time (TTM)
8. Clock (12H/24H)
9. Temperature (°C/°F)
10. Scan (Automatic cycling through functions)
11. Stopwatch
12. Calories Burned (Estimated)
13. Fat Burned (Estimated)
14. Backlight (if applicable)
15. Freeze Frame Memory (for current ride data)
16. Low Battery Indicator

To reset trip-specific data (e.g., Trip Distance, Trip Ride Time), typically press and hold the "Set" button while the corresponding function is displayed. Refer to the full product manual for detailed instructions on each function and specific reset procedures.

Auto Power On/Off:

The M16 automatically powers on when motion is detected (e.g., when you start cycling) and powers off after a period of inactivity to conserve battery life.

MAINTENANCE

- **Cleaning:** Wipe the computer unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Water Resistance:** The M-Wave M16 has an Ingress Protection Rating of IP44, meaning it is protected against splashing water from any direction. It is not designed for submersion. Avoid direct high-pressure water jets.
- **Battery Replacement:** When the low battery indicator appears, replace the battery promptly to ensure continued accurate operation. Follow the battery installation steps outlined in the Setup section.
- **Sensor and Magnet Alignment:** Periodically check that the speed sensor and magnet remain properly aligned and securely fastened. Misalignment can lead to inaccurate readings.
- **Storage:** If storing the bicycle computer for an extended period, it is recommended to remove the battery to prevent leakage. Store in a cool, dry place.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or faint display	Dead or low battery; incorrect battery installation.	Replace battery; ensure correct polarity.
No speed reading or inaccurate speed	Sensor/magnet misalignment; sensor too far from magnet; loose sensor/magnet; incorrect wheel size setting.	Adjust sensor and magnet for proper alignment (within 3-5mm); secure sensor/magnet; verify wheel size setting.
Buttons unresponsive	Unit frozen; debris stuck in button.	Remove battery for 30 seconds and reinsert (hard reset); clean around buttons.
Inaccurate temperature reading	Direct sunlight exposure; proximity to heat source.	Move to shaded area; note that direct sun can temporarily affect readings.

SPECIFICATIONS

Feature	Detail
Brand	M-Wave
Model	M16
Part Number	244733
Color	Black
Display Type	LCD
Sensor Type	Speed Sensor (Wired)
Item Weight	0.1 Kilograms

Feature	Detail
Dimensions (LxWxH)	5.12 x 3.94 x 1.18 inches
Ingress Protection Rating	IP44
Battery Cell Composition	Lithium
Mounting Type	Handlebar Mount
Human Interface Input	Buttons
UPC	887539009519

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official M-Wave website. Keep your proof of purchase for any warranty claims.

For further assistance, you may contact M-Wave customer service through their official channels. Always provide your product model number (M16) and any relevant purchase details when seeking support.