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Mentech Avant 700 GPS Bike Computer User Manual

Model: Avant 700 | Brand: [Mentech](#)

1. INTRODUCTION

The [Mentech Avant 700](#) is a GPS bike computer designed to provide comprehensive navigation, tracking, and training data for cyclists. Featuring a 2.8-inch touchscreen, dual-band satellite systems, and robust connectivity options, it offers a reliable solution for various cycling activities.

PRECISION INERTIAL NAVIGATION

Smooth, stable, and responsive data tracking even in tunnels or forests.



Image 1.1: The Mentech Avant 700 GPS Bike Computer.

2. SETUP

2.1 Unboxing and Components

Carefully unpack the contents of the box. The standard package includes:

- Mentech Avant 700 GPS Bike Computer

- USB Charging Cable
- Bike Mount Kit
- User Manual (this document)

2.2 Charging the Device

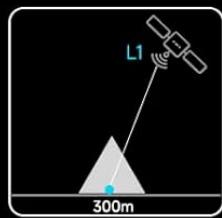
Before first use, fully charge the Avant 700. Connect the provided USB cable to the charging port on the device and to a standard USB power adapter (not included) or a computer USB port. The charging indicator on the screen will show the charging status. A full charge typically takes approximately 2-3 hours.

2.3 Mounting the Bike Computer

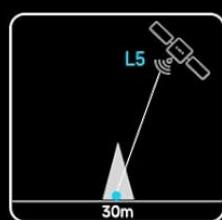
Attach the bike mount to your bicycle's handlebars or stem using the provided straps or bolts. Ensure the mount is securely fastened and positioned for optimal viewing during your ride. Align the Avant 700 with the mount and twist it clockwise until it locks into place.

DUAL-BAND GNSS FOR MAX ACCURACY

L1 + L5 Satellite Signals for Unmatched Precision



L1 Band:
Up to ~984 ft accuracy



L5 Band:
Up to ~98 ft accuracy



Dual-Band:
Reliable performance near tall buildings and dense areas



Image 2.1: The Avant 700 securely mounted on a bicycle.

2.4 Initial Power On and Basic Settings

Press and hold the power button to turn on the device. Follow the on-screen prompts to select your preferred language, time zone, and measurement units (e.g., kilometers/miles, Celsius/Fahrenheit).

2.5 Satellite System Configuration

The Avant 700 supports dual-band 5 satellite systems for enhanced accuracy. Navigate to the GPS settings menu to ensure all available satellite systems are enabled for optimal signal acquisition and tracking performance.

2.6 Sensor Pairing (ANT+/Bluetooth 5.2)

The device supports ANT+ and Bluetooth 5.2 for connecting external sensors such as heart rate monitors, speed sensors, cadence sensors, and power meters. To pair a sensor:

1. Ensure the sensor is awake and in pairing mode.
2. On the Avant 700, go to **Settings > Sensors**.
3. Select **Add New Sensor** and choose the appropriate connection type (ANT+ or Bluetooth).
4. The device will scan for nearby sensors. Select your sensor from the list to complete pairing.

3. OPERATING INSTRUCTIONS

3.1 Touchscreen Interface

The Avant 700 features a responsive 2.8-inch full-color touchscreen. Swipe left/right to navigate between data screens, tap to select options, and use pinch-to-zoom gestures on maps. The screen is designed to be glove-friendly and readable in various lighting conditions.

Image 3.1: The 2.8-inch full-color touchscreen interface.

3.2 GPS Navigation and Offline Maps

The device supports precise GPS navigation, including pre-loaded offline maps. This allows for navigation without a phone or internet connection. To use navigation:

- From the main menu, select **Navigation**.
- Choose to load a pre-saved route, search for a destination, or navigate back to your starting point.
- Follow the on-screen turn-by-turn directions.



Image 3.2: Offline maps provide navigation without a signal.

3.3 Data Display and Metrics

The Avant 700 displays a wide range of cycling metrics, including speed, distance, time, ascent, calories, heart rate, cadence, and power (with connected sensors). You can customize data fields on different screens to prioritize the information most relevant to your ride.

Image 3.3: Rich metrics provide real-time insights into your performance.

3.4 Training Features

Utilize the Avant 700's training features to set goals, follow structured workouts, and track your progress. This includes interval training, target power zones, and other customizable training plans.

Image 3.4: Custom training plans to boost cycling performance.

3.5 Data Synchronization

After your ride, synchronize your data with compatible cycling apps and platforms like Strava via Bluetooth. This allows you to analyze your performance, share activities, and track long-term progress.

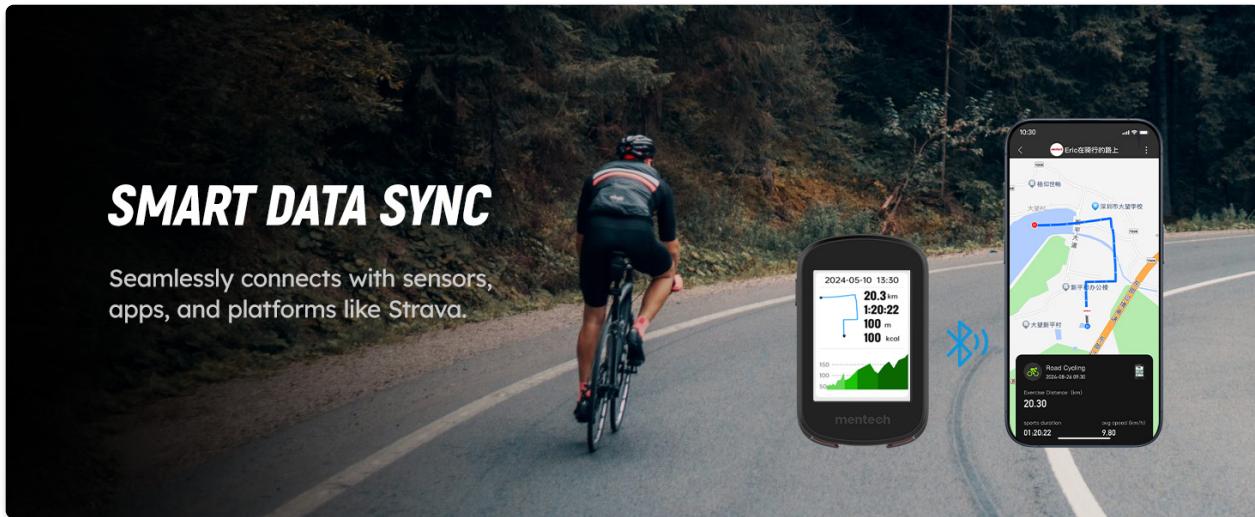


Image 3.5: Seamless data synchronization with cycling apps.

Your browser does not support the video tag.

Video 3.1: An overview of the Mentech Avant 700 GPS Bike Computer features and usage during a ride.

4. MAINTENANCE

4.1 Cleaning the Device

Wipe the device with a soft, damp cloth after each ride to remove dirt and sweat. Avoid using harsh chemicals or abrasive cleaners, as these can damage the screen or casing.

4.2 Battery Life and Care

The Avant 700 offers up to 28 hours of battery life, with continuous use potentially extending to 35 hours depending on settings and usage. To prolong battery life:

- Avoid extreme temperatures.
- Charge the device regularly, but avoid leaving it fully discharged for extended periods.
- Reduce screen brightness when not needed.

Image 4.1: The Avant 700 is designed for extended battery performance.

4.3 Water Resistance (IPX7)

The Avant 700 has an IPX7 waterproof rating, meaning it can withstand immersion in up to 1 meter of water for 30 minutes. This protects it from rain, splashes, and accidental submersion. However, it is not recommended for prolonged underwater use.

Image 4.2: The IPX7 rating ensures durability in wet conditions.

4.4 Firmware Updates

Periodically check for firmware updates to ensure your device has the latest features and performance improvements. Updates can typically be performed via the companion app or by connecting the device to a computer.

5. TROUBLESHOOTING

If you encounter issues with your Avant 700, refer to the following common solutions:

- **Device not powering on:** Ensure the device is fully charged. Try a different USB charging port or cable.
- **GPS signal loss or inaccuracy:** Ensure you are in an open area with a clear view of the sky. Check GPS settings to confirm all satellite systems are enabled.
- **Sensors not connecting:** Ensure sensors are awake, in pairing mode, and have fresh batteries. Re-attempt pairing through the device settings.
- **Touchscreen unresponsive:** Perform a soft reset by holding the power button for 10-15 seconds. Clean the screen to remove any dirt or moisture.
- **Data not syncing:** Ensure Bluetooth is enabled on both the Avant 700 and your smartphone. Check the companion app for connection status.

6. SPECIFICATIONS

Feature	Detail
Model Name	Avant 700
Display	2.8" Touchscreen
GPS Systems	Dual-Band 5 Satellite Systems
Internal Storage	32GB
Waterproof Rating	IPX7
Connectivity	ANT+/Bluetooth 5.2
Battery Life	Up to 28 hours (up to 35 hours continuous use)
Batteries Included	Yes (1 Nonstandard Battery)

Feature	Detail
Item Weight	13.1 ounces (0.82 Pounds)
Package Dimensions	6.06 x 3.78 x 2.4 inches
Manufacturer	Mentech
ASIN	B0F6CV31Z9
Date First Available	April 25, 2025

7. WARRANTY INFORMATION

The Mentech Avant 700 GPS Bike Computer comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

8. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Mentech customer service through the official website or the contact information provided with your product packaging. You may also refer to the online FAQ section for common questions and solutions.