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iGPSPORT BiNavi Ultra

iGPSPORT BiNavi Ultra GPS Bike Computer User Manual

Model: BiNavi Ultra | Brand: iGPSPORT

Introduction

This manual provides detailed instructions for the iGPSPORT BiNavi Ultra GPS Bike Computer. It covers device setup, operation, advanced features, maintenance, and troubleshooting. Please read this manual thoroughly before using your device to ensure optimal performance and safety.

What's in the Box

Verify that all items are present in your package:

- 1*BiNavi Ultra GPS Bike Computer
- 1*M80 Bike Computer Mount
- 1*Protective Case
- 1*Lanyard
- 1*Charge Cable
- 1*Quick-Release Mount
- 1*User Manual (this document)

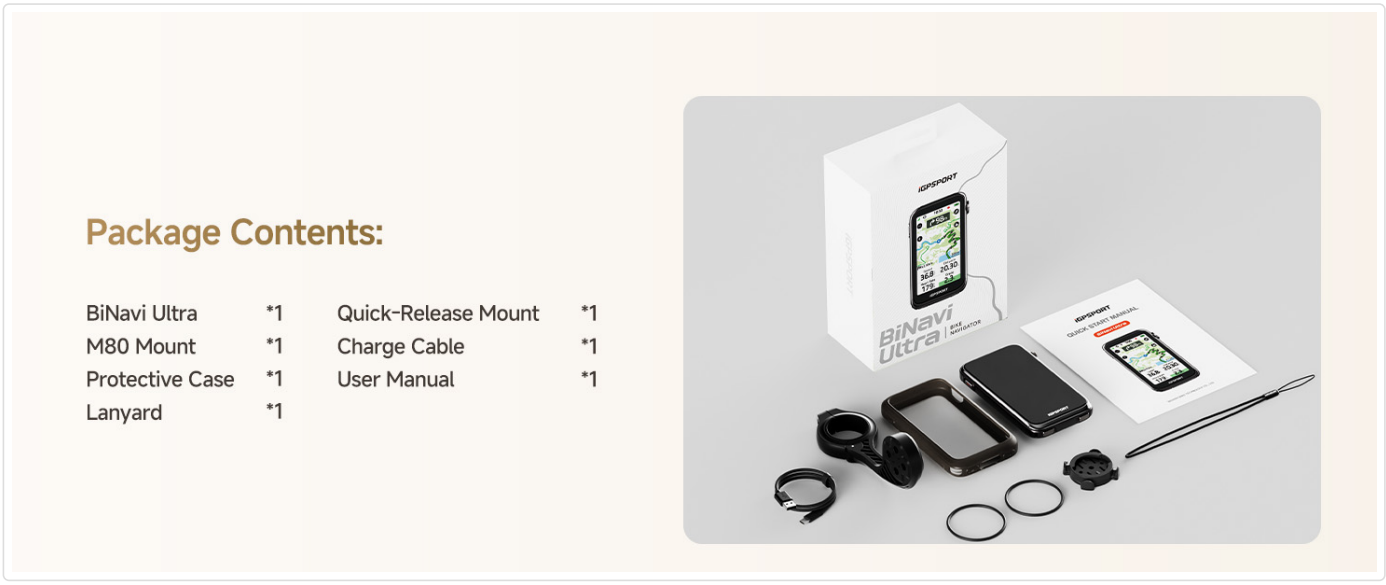


Image: Contents of the iGPSPORT BiNavi Ultra package.

Setup

1. Charging the Device

Before first use, fully charge the BiNavi Ultra using the provided charge cable. Connect the cable to the device and a standard USB power source. The battery indicator on the screen will show charging status.

2. Mounting the Device

Attach the M80 Bike Computer Mount or Quick-Release Mount to your bicycle's handlebar or stem according to the mount's instructions. Securely twist the BiNavi Ultra onto the mount until it clicks into place. Ensure a firm connection for safe riding.

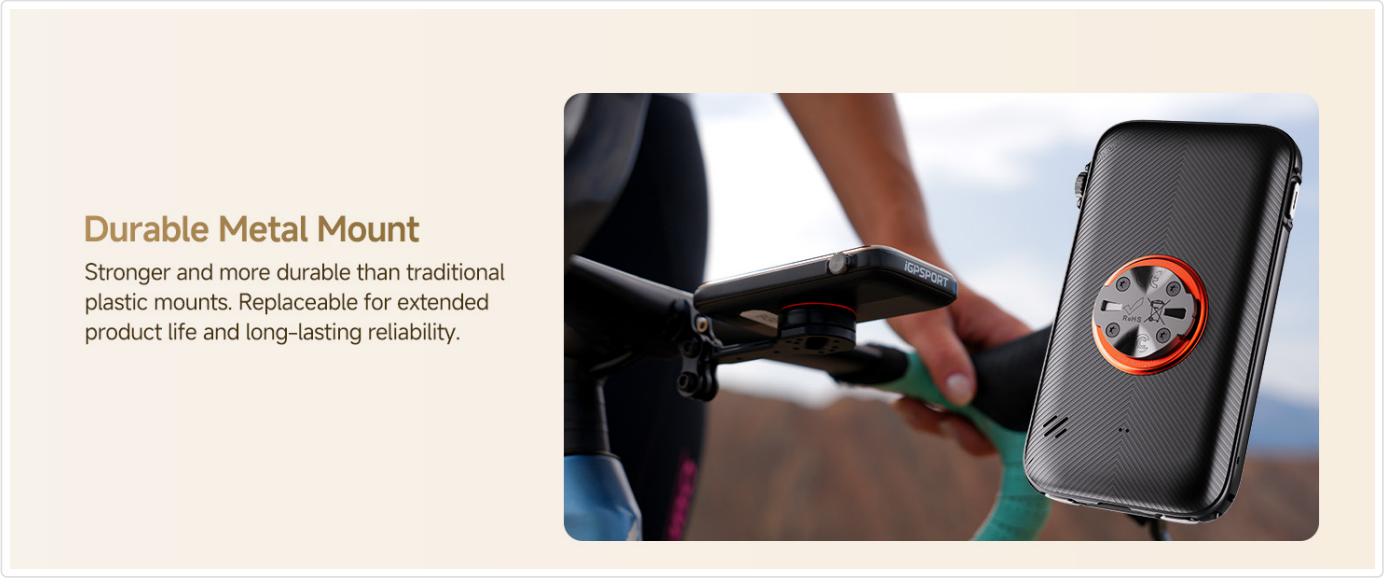


Image: iGPSPORT BiNavi Ultra securely mounted on a bicycle handlebar.

3. 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 language, time zone, and basic cycling preferences. For detailed customization, refer to the "Operating Instructions" section.

Operating Instructions

3.7" Large Touchscreen & Multi-Control

The BiNavi Ultra features a 3.7-inch touchscreen for clear display of maps, ride data, and training metrics. It also includes an optical rotary knob and physical buttons for flexible operation, even with gloves. Rotate the knob to navigate menus and press to confirm selections.



Image: Close-up of the BiNavi Ultra's 3.7" touchscreen displaying various cycling metrics.

Advanced Offline Navigation & Smart Rerouting

The device comes with detailed offline maps. To start navigation, tap any point on the map. You can follow planned routes or allow the device to automatically replan if you go off course. It supports switching to another available route during a ride without ending the current activity.

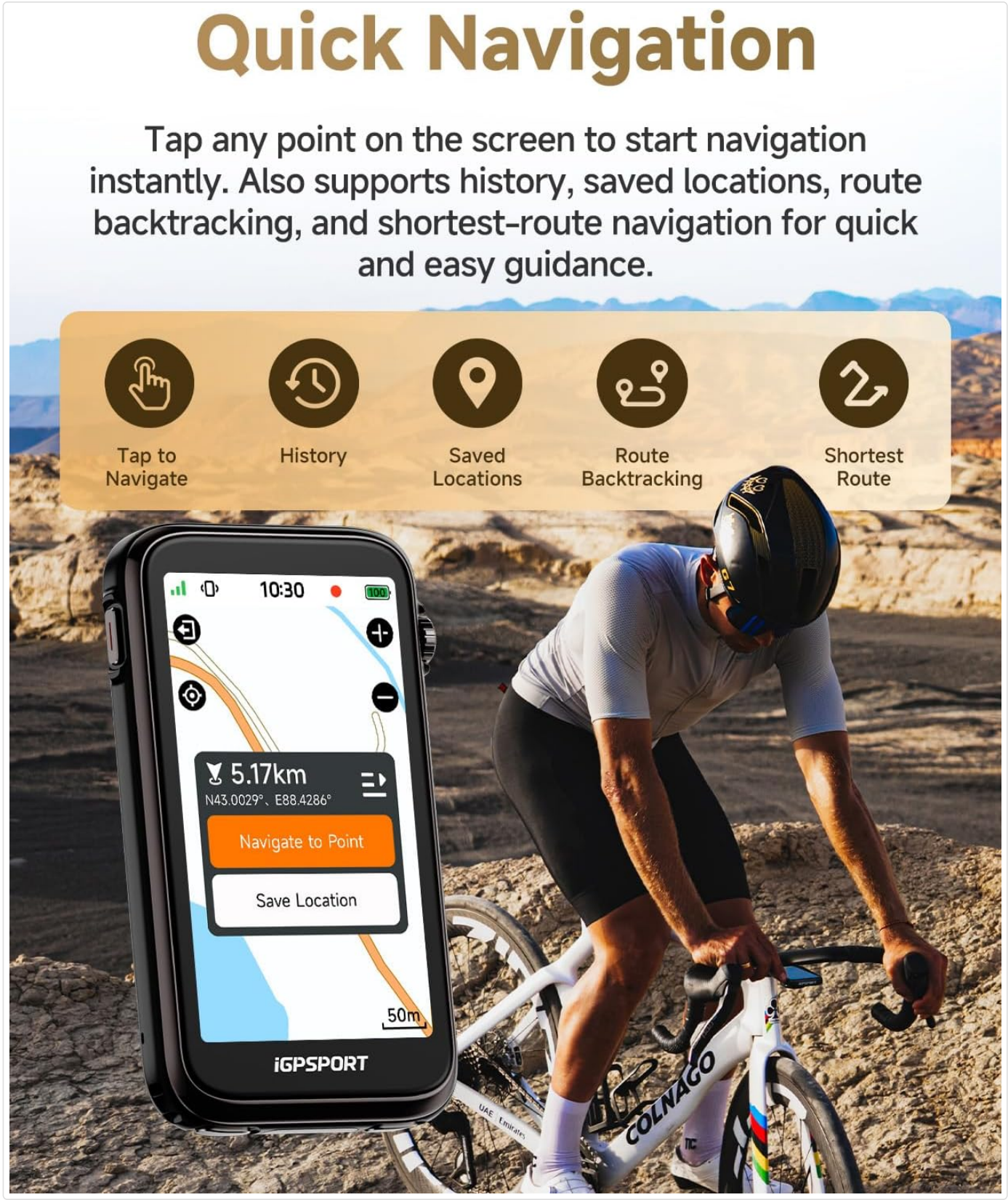


Image: BiNavi Ultra showing quick navigation options on its screen.

The device also features Inertial Navigation, which uses IMU-based dead reckoning to maintain location awareness in areas with weak or unavailable GPS signals, such as tunnels or dense urban environments.

Inertial Navigation

Uses GPS for normal positioning and switches to IMU-based dead reckoning when GPS signals are weak or unavailable, helping maintain continuous tracking and navigation through tunnels, dense forests, and urban areas with tall buildings.



Image: BiNavi Ultra demonstrating Inertial Navigation in an area with limited GPS.

For long-distance rides, the BiNavi Ultra supports routes up to 160 km and offers off-course rerouting with instant alerts to guide you back to your original path.

Off-Course Rerouting

Get instant off-course alerts and quickly reroute back to your original route, so you can keep exploring without missing the views along the way.



Image: The device displaying an off-course rerouting alert.

Route Collection Navigation allows you to send multiple routes to your device for multi-day rides, enabling you to switch between routes freely.

Route Collection Navigation

Send multiple routes for Gran Fondos, multi-day rides, or long-distance adventures to your bike computer at once. Navigation starts automatically when you reach the corresponding route, letting you switch between routes freely and explore your way.



Image: BiNavi Ultra displaying multiple route options for collection navigation.

Dual-Band GNSS & Dead Reckoning

The BiNavi Ultra supports dual-band GNSS (GPS, BeiDou, GLONASS, Galileo, QZSS) for fast and precise positioning. Dead Reckoning (DR) technology further enhances location accuracy, especially when satellite signals are weak or obstructed.

Free Climb & Live Segment Tracking

The Free Climb feature automatically detects climbs without requiring a preloaded route, displaying real-time graphical climbing data to help you manage your effort. The device is also compatible with Strava Live Segments, allowing you to track your performance in real-time against segments.

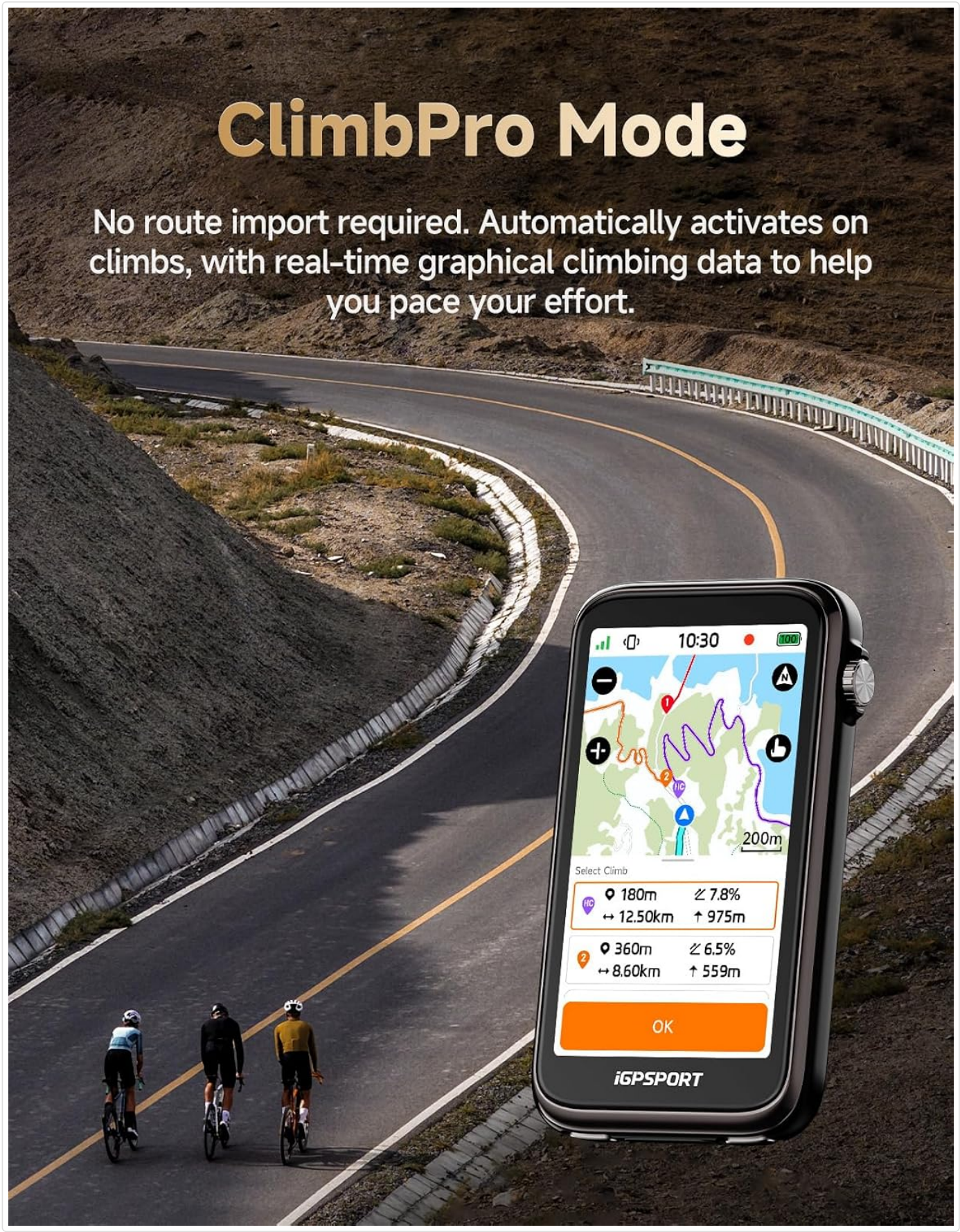


Image: BiNavi Ultra in ClimbPro mode, showing elevation and gradient data.

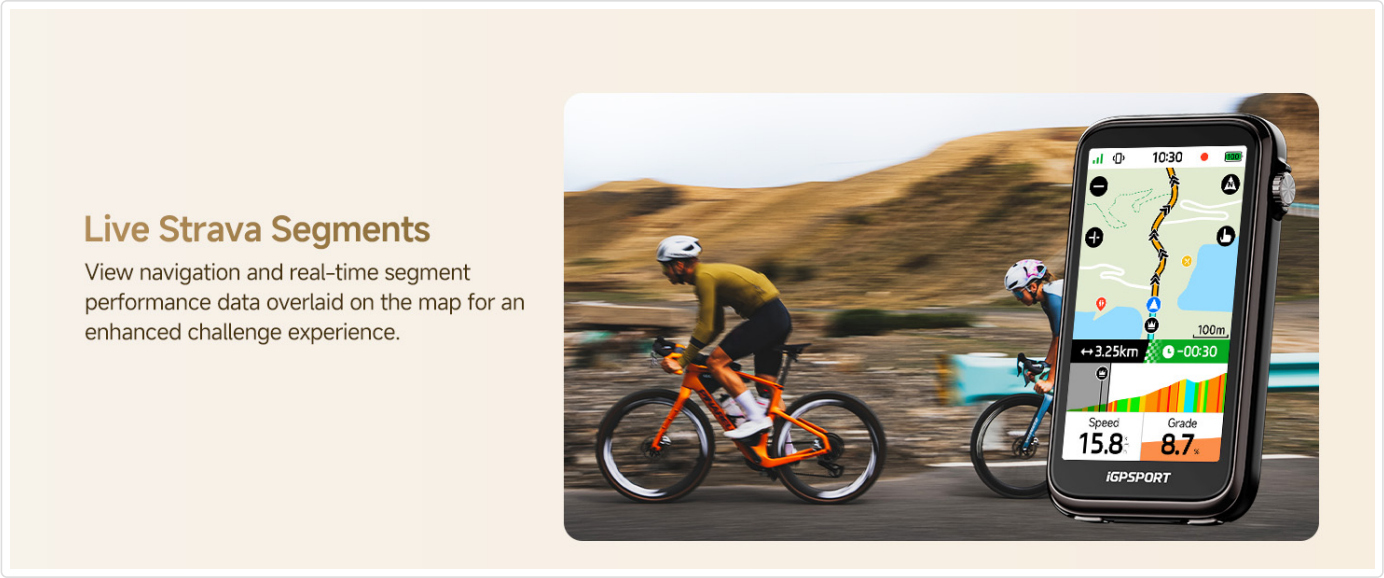


Image: BiNavi Ultra showing real-time data for a Live Strava Segment.

Advanced Training & Race Simulation

Train smarter with features like Route Simulation, which allows you to preview navigation and key route details, and Race Simulation, which creates a competitive training experience. These features help improve pacing and performance by adjusting resistance on smart trainers based on actual route gradients.



Image: BiNavi Ultra displaying a training plan and performance metrics.

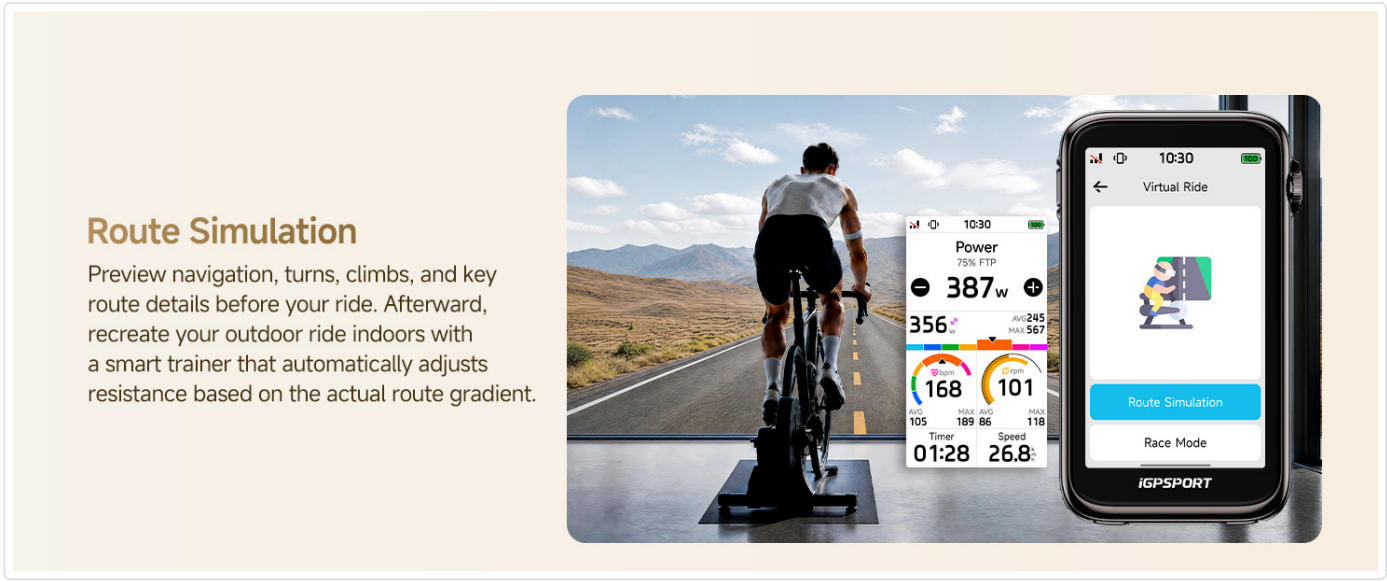


Image: BiNavi Ultra showing the Route Simulation interface.

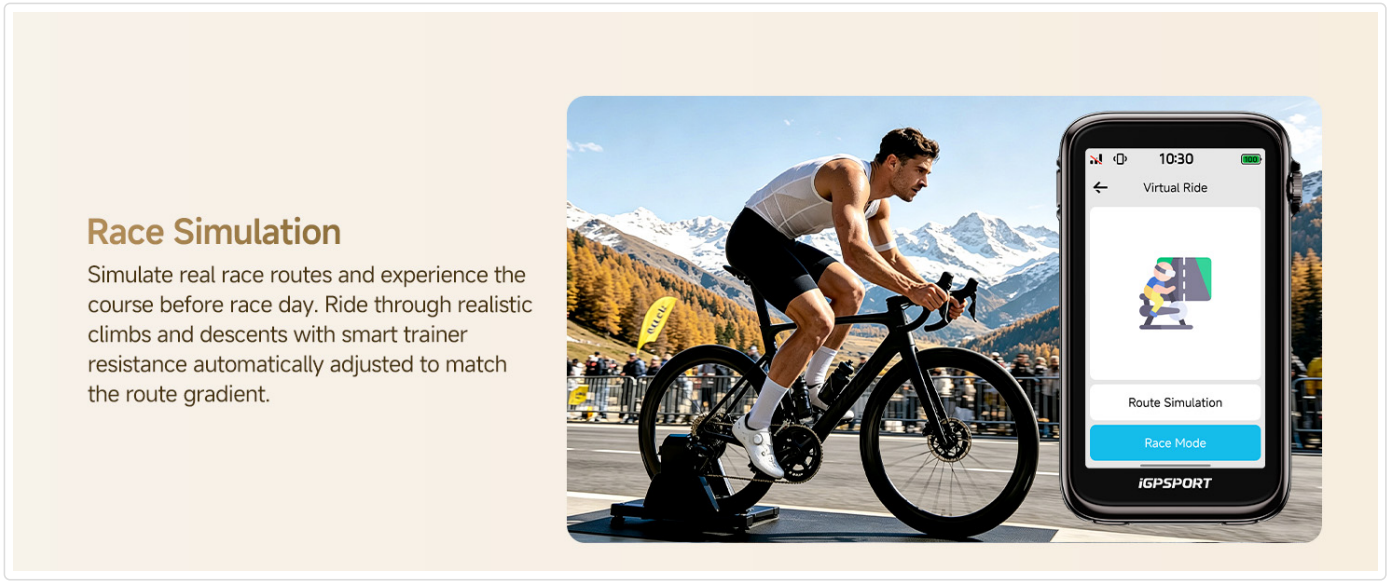


Image: BiNavi Ultra showing the Race Simulation interface.

Voice Navigation, Music & Smart Ride Features

Receive audible navigation guidance that adjusts timing based on your speed, reducing the need to look down. The device also features a built-in electronic bike bell and supports music playback with 64GB of storage for local music files (MP3/WAV formats). The "Continue Last Ride" function allows you to resume interrupted activities.

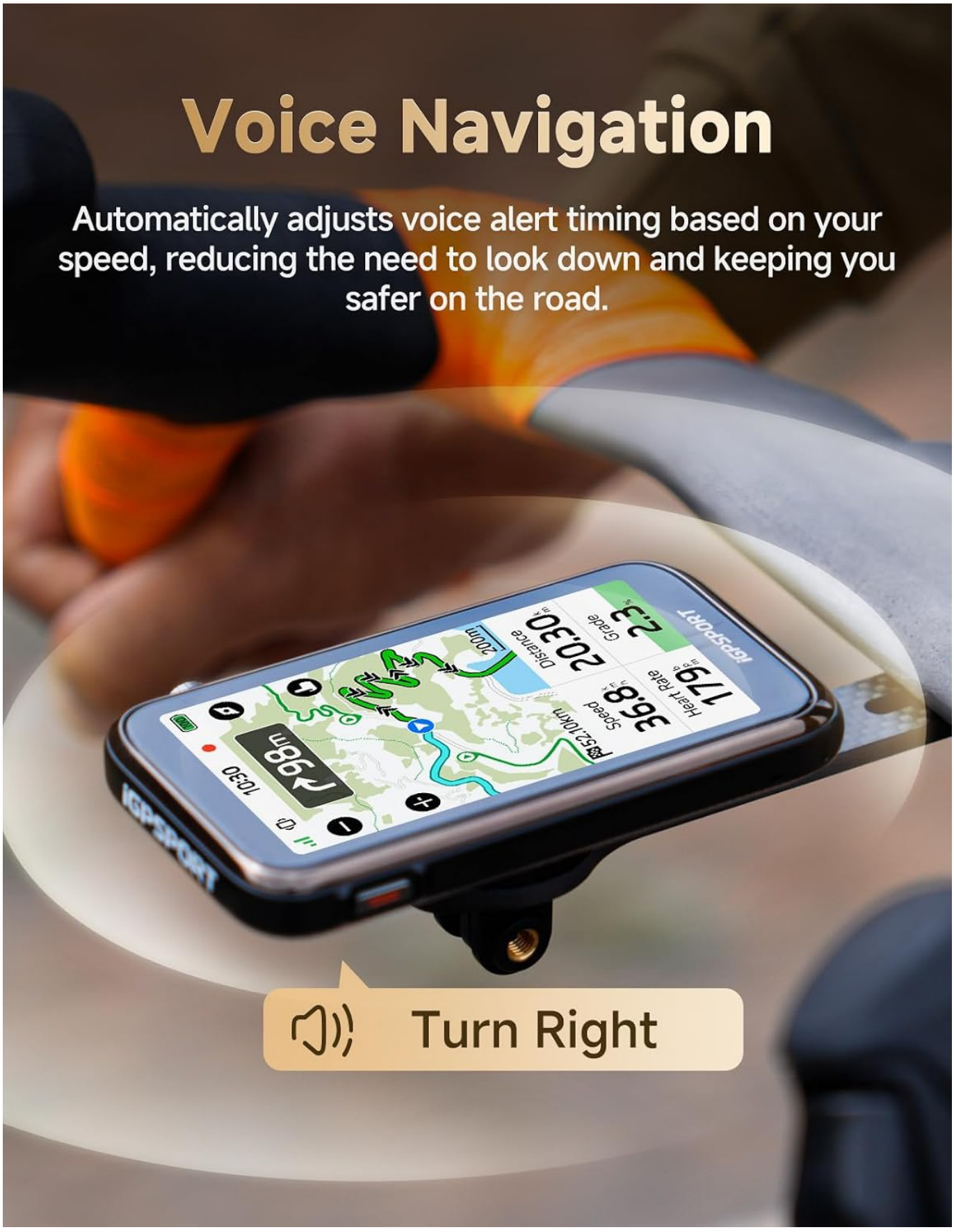


Image: BiNavi Ultra showing a voice navigation prompt.

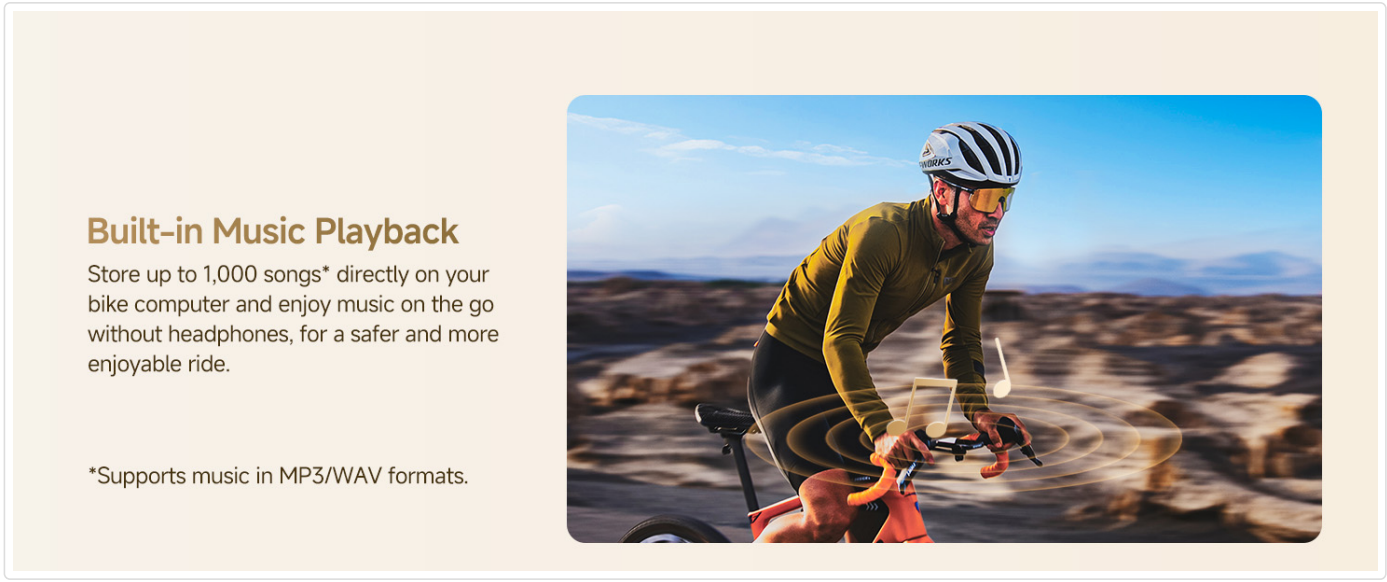


Image: BiNavi Ultra displaying the built-in music playback interface.

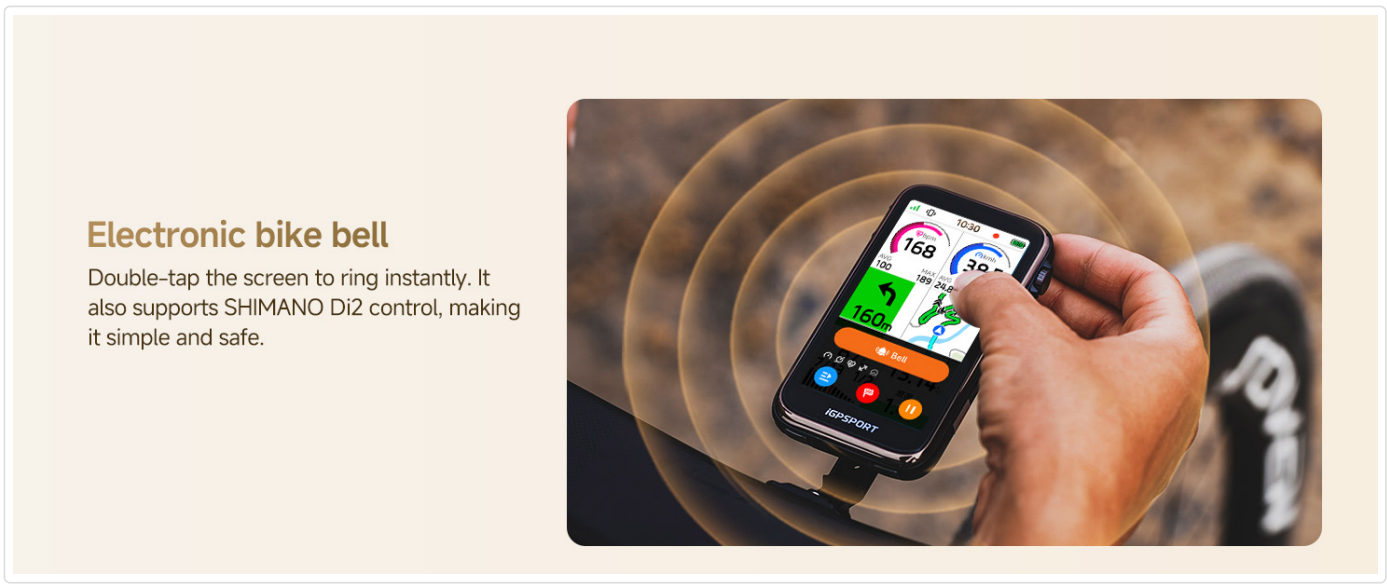


Image: BiNavi Ultra showing the electronic bike bell activation.

Bluetooth & ANT+ Connectivity & App Compatibility

Connect your BiNavi Ultra with compatible power meters, heart rate monitors, speed and cadence sensors, radar tail lights, and iGPSPORT smart lights via Bluetooth and ANT+. It also connects with supported action cameras and third-party platforms like Strava, Komoot, and TrainingPeaks for syncing data and routes.



Image: BiNavi Ultra's compatibility with various cycling sensors and devices.

Connects with iGPSPORT Front Lights

Control your iGPSPORT front light directly from the bike computer and view its lighting mode and battery level in real time. Also supports electronic shifting controls for easier operation while riding.



Image: BiNavi Ultra controlling an iGPSPORT front light.

Connects with iGPSPORT Radar Taillights

Control your iGPSPORT radar taillight directly from the bike computer and view its mode and battery level in real time. Get real-time radar alerts for approaching vehicles, and control the taillight via electronic shifting controls for a safer, more focused ride.



Image: BiNavi Ultra connected to an iGPSPORT radar taillight.

Device-to-Device Sharing

Share routes, workouts, segments, and more directly between iGPSPORT devices for quick and effortless data sharing.

*Available on select models only.

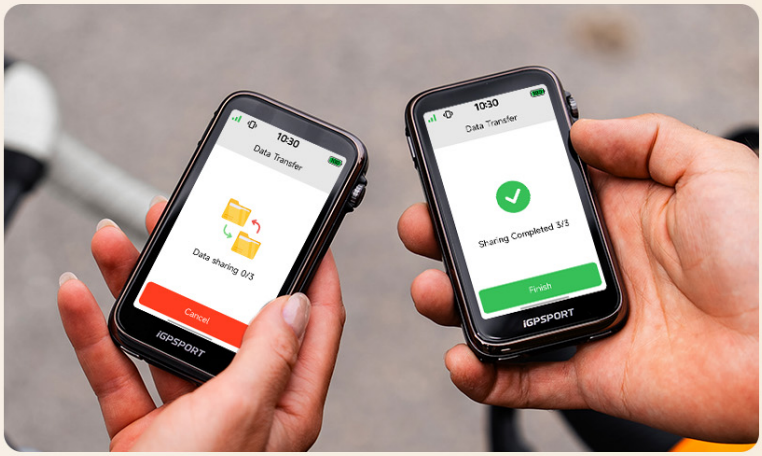


Image: Device-to-device data sharing between iGPSPORT devices.

Connects with iGPSPORT APP

The iGPSPORT app provides in-depth analysis of your riding and training data, delivering professional insights into performance, training load, and recovery to help you optimize your training and recovery plans.

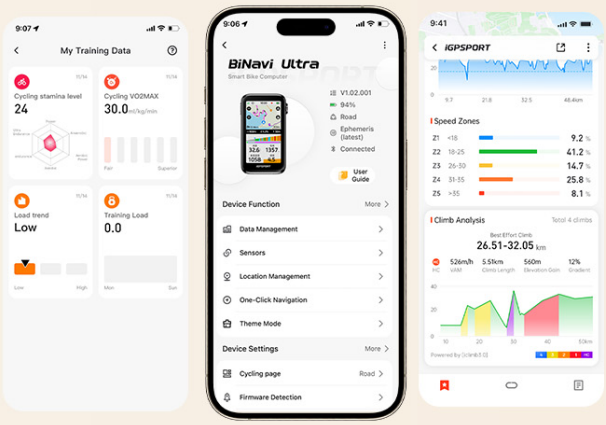


Image: The iGPSPORT APP interface showing ride analysis and device management.

Connects with iGPSPORT APP

Seamlessly connect with Strava to automatically sync your ride data, access routes, and enjoy Strava Live Segments for a more connected riding and training experience.

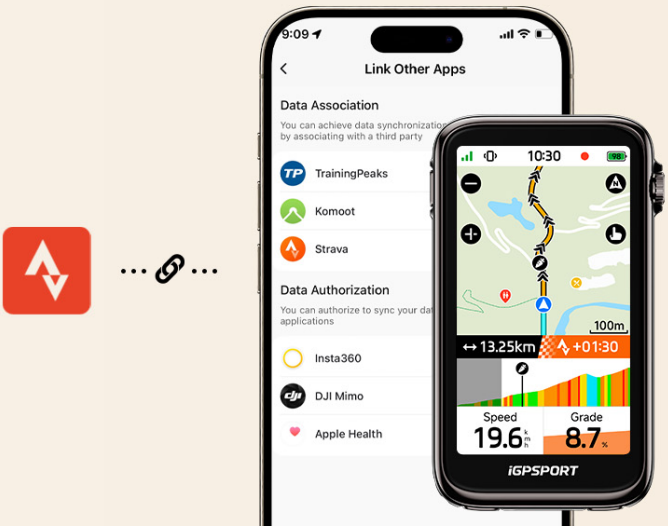


Image: BiNavi Ultra syncing data with Strava.

Connects with Action Cameras

Compatible with DJI, Insta360 action cameras to seamlessly sync your cycling data with captured footage, bringing speed, power, heart rate, and more into your ride videos.

*Compatibility may vary by camera model.

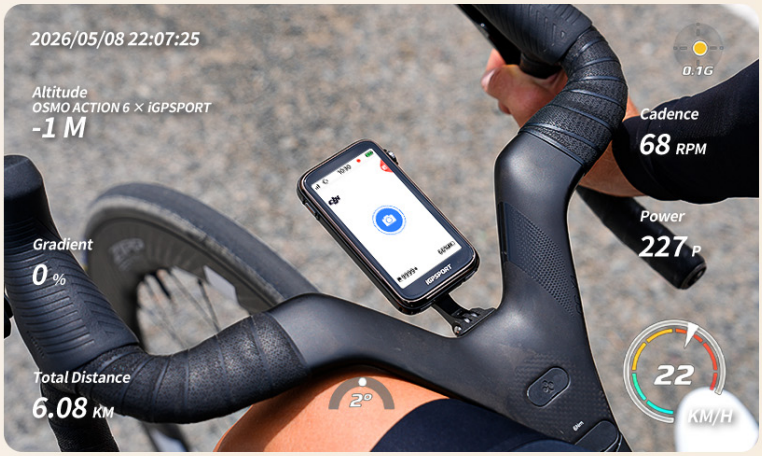


Image: BiNavi Ultra integrating with an action camera to overlay cycling data on video.

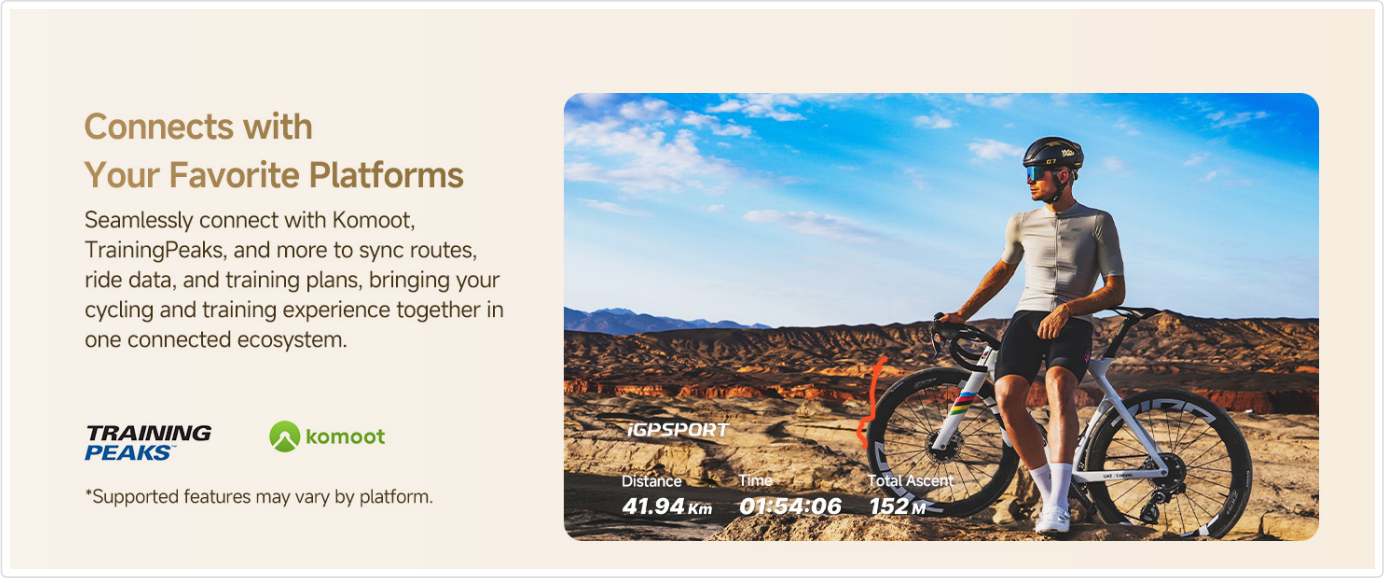


Image: BiNavi Ultra syncing with Komoot and TrainingPeaks.

Cycling Assistant

The Cycling Assistant provides storm alerts, riding status alerts, message notifications, motion detection, and other smart features to enhance your riding experience.

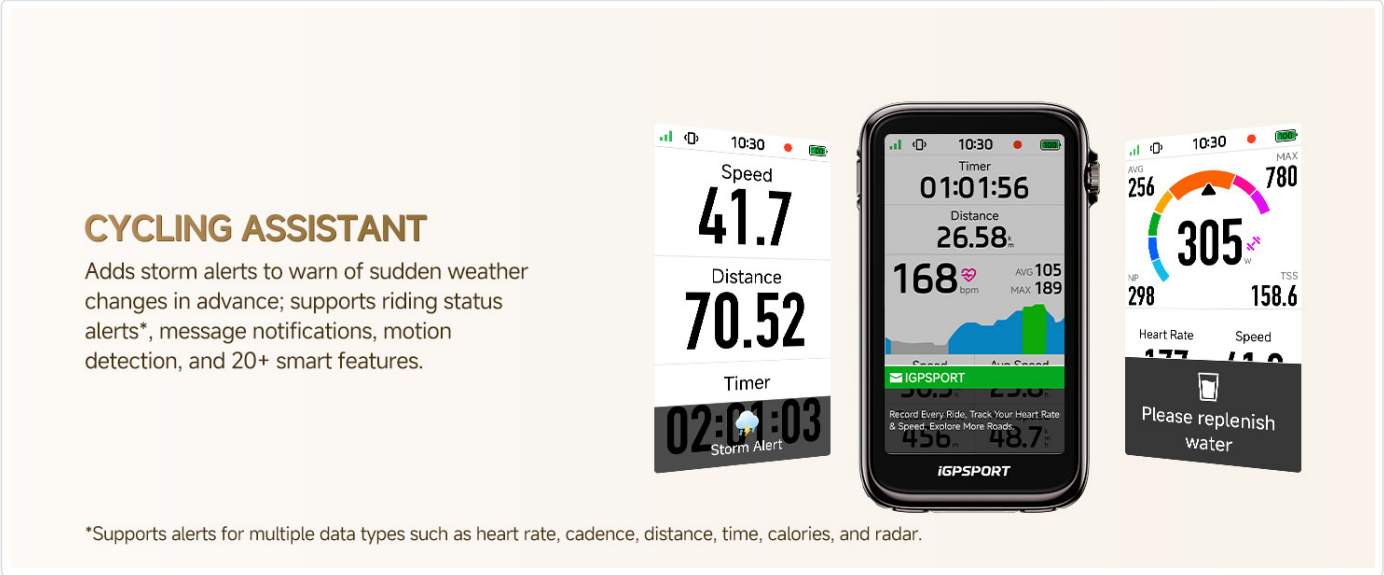


Image: BiNavi Ultra displaying various Cycling Assistant features and alerts.

Video Demonstration: iGPSPORT BiNavi Ultra Bike Computer GPS - Ride Grand

Your browser does not support the video tag.

Video: An official video showcasing the iGPSPORT BiNavi Ultra GPS Bike Computer in action, highlighting its features and navigation capabilities.

MAINTENANCE

Cleaning

Wipe the device with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the screen or casing.

Battery Life

The BiNavi Ultra offers 30+ hours of battery life under typical usage. Actual battery performance may vary based on

settings (e.g., GPS accuracy mode, screen brightness, navigation usage) and environmental conditions. For optimal battery longevity, avoid extreme temperatures and fully charge the device before long rides.

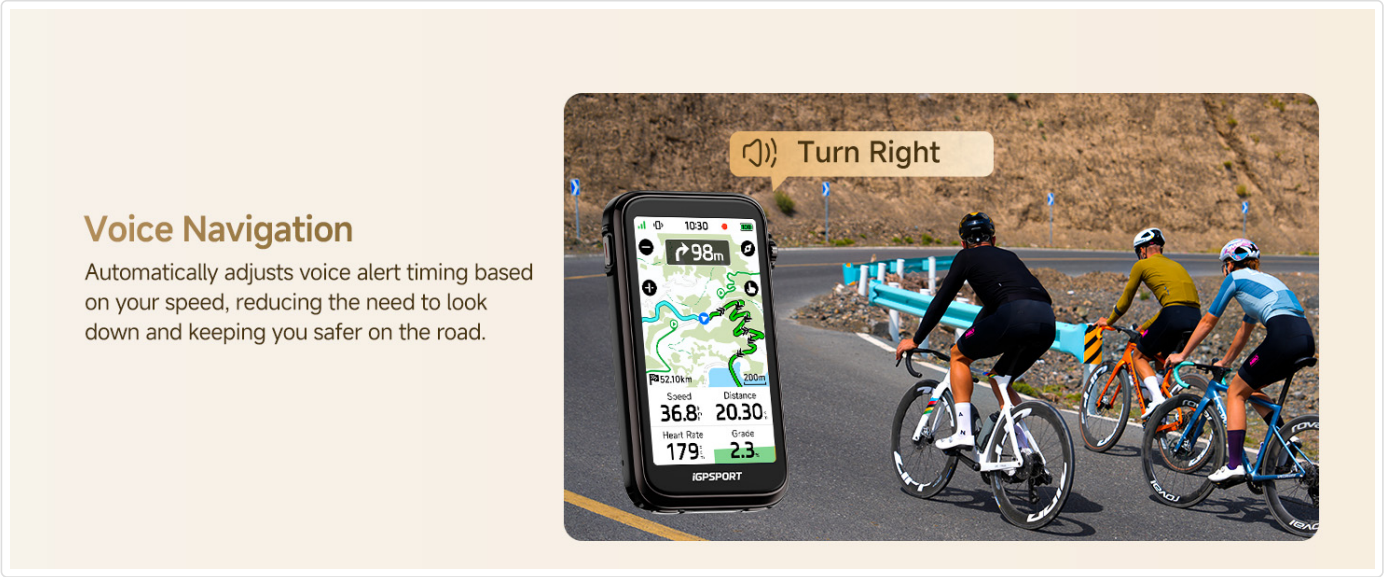


Image: Battery life estimates for different usage scenarios.

Storage

When not in use for extended periods, store the device in a cool, dry place. It is recommended to charge the device to about 50% before long-term storage.

TROUBLESHOOTING

Device Not Powering On

- Ensure the device is fully charged. Connect it to a power source and wait a few minutes before attempting to power on again.
- Try a soft reset by holding the power button for 10-15 seconds.

GPS Signal Issues

- Ensure you are in an open area with a clear view of the sky.
- Wait for the device to acquire satellite signals. This may take longer on first use or after a long period of inactivity.
- Check for any firmware updates, as these can improve GPS performance.

Connectivity Problems (ANT+/Bluetooth)

- Ensure the external sensor or accessory is powered on and within range.
- Check the device's settings to confirm Bluetooth/ANT+ is enabled.
- Try unpairing and re-pairing the sensor/accessory.
- Restart both the BiNavi Ultra and the external device.

Screen Unresponsive

- Perform a soft reset.
- Ensure the screen is clean and dry.

SPECIFICATIONS

Feature	Detail
Brand	iGPSPORT
Model Name	BiNavi Ultra
Screen Size	3.7 inches
Connectivity Technology	ANT, Bluetooth
Battery Life	30 hours (average)
Memory Storage Capacity	64 GB
Human-Interface Input	Touchscreen
Control Method	App, Push Button, Touch
Supported Satellite Navigation System	BeiDou, GLONASS, GPS, QZSS
Product Dimensions	2.4"L x 0.56"W x 4.26"H
Item Weight	0.11 kg
Mounting Type	Handlebar Mount
Special Features	Bluetooth, Radar Warning, Touchscreen, Waterproof

Warranty and Support

Warranty Information

The iGPSPORT BiNavi Ultra GPS Bike Computer comes with a**2-Year Warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact iGPSPORT Official customer support. You can find more information and contact details on the official iGPSPORT website or through your retailer.
Visit the iGPSPORT Store on Amazon for additional product information and support resources.

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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.

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