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Dual Electronics XGPS150A

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Multipurpose Portable Universal Bluetooth GPS Receiver

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1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your Dual Electronics XGPS150A Multipurpose Portable Universal Bluetooth GPS Receiver. The XGPS150A is designed to provide highly accurate GPS tracking capabilities to a wide range of devices via Bluetooth connectivity, enhancing navigation and location-based applications across various platforms.

2. SAFETY INFORMATION

Please read all safety information before using the device. Failure to follow these instructions may result in injury or damage to the device.

- Do not expose the device to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Use only the provided USB charging cord or a certified equivalent for charging.
- Keep the device away from strong magnetic fields.
- Dispose of the device and its battery responsibly according to local regulations.
- **Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Dual Electronics XGPS150A GPS Receiver

- USB Charging Cord
- Adjustable Strap
- Non-Slip Pad

4. PRODUCT OVERVIEW

The XGPS150A is a compact and lightweight GPS receiver designed for portability and ease of use. It features a simple interface with indicator lights for status and a mode switch for compatibility.



Figure 1: Front view of the Dual Electronics XGPS150A GPS Receiver, showing the red circular face with 'BATT' and 'GPS' indicators, a Bluetooth icon, and a power button icon. The device is black with a red center.



Figure 2: The XGPS150A GPS Receiver placed next to a set of car keys, illustrating its compact and portable size.

4.1. Components and Indicators

- **Power Button:** Located at the bottom of the red circular face. Press and hold to power on/off.
- **Bluetooth Indicator:** Blue LED, located at the top of the red circular face. Indicates Bluetooth connection status.
- **GPS Indicator:** Green LED, located on the right side of the red circular face. Indicates GPS signal acquisition status.
- **Battery Indicator:** Red LED, located on the left side of the red circular face. Indicates battery charge status.
- **USB Port:** For charging the device.
- **Mode Switch:** A small switch on the side of the device to select compatibility mode (Apple devices vs. other devices).



Figure 3: Detailed view of the side of the XGPS150A, highlighting the USB port for charging and the mode switch. The mode switch has two positions: 'Right' for iPad/iPod/iPhone and 'Left' for all other devices.

5. SETUP

5.1. Charging the Device

Before first use, fully charge your XGPS150A. Connect the supplied USB charging cord to the USB port on the device and plug the other end into a USB power source (e.g., computer USB port, USB wall adapter). The Battery Indicator (red LED) will illuminate while charging and turn off when fully charged. A full charge takes approximately 2.5 hours.

5.2. Powering On/Off

- **To Power On:** Press and hold the Power Button for approximately 3 seconds until the indicator lights briefly flash.
- **To Power Off:** Press and hold the Power Button for approximately 3 seconds until the indicator lights turn off.

5.3. Setting the Mode Switch

The XGPS150A has a mode switch to ensure compatibility with different operating systems. Set the switch before pairing:

Switch Position	Compatible Devices
Left (towards USB connector)	Android, Windows, Blackberry devices, Laptops, and Tablets
Right (away from USB connector)	iPod touch, iPad, and iPhone

5.4. Bluetooth Pairing

Once powered on and the mode switch is set, the XGPS150A will automatically enter pairing mode. The Bluetooth Indicator (blue LED) will flash rapidly.

1. On your device (smartphone, tablet, laptop), go to the Bluetooth settings.
2. Search for available devices. The XGPS150A will appear as "XGPS150A".
3. Select "XGPS150A" to pair. No PIN is required.
4. Once paired, the Bluetooth Indicator on the XGPS150A will stop flashing and remain solid blue.

5.5. GPS Signal Acquisition

For optimal GPS signal acquisition, ensure the XGPS150A has a clear view of the sky. The GPS Indicator (green LED) will flash while searching for satellites and become solid green once a stable GPS fix is acquired. The built-in Wide Area Augmentation System (WAAS) enhances accuracy.

5.6. Using the GPS Status Tool App

The "GPS Status Tool" is a free downloadable application available in the App Store (iOS) and Android Marketplace. This app provides real-time accurate GPS coordinates, position rate of change, battery status, and information about connected satellites. It is highly recommended for monitoring the device's performance.

6. OPERATING INSTRUCTIONS

6.1. General Usage

Once paired and a GPS fix is acquired, your connected device will automatically use the XGPS150A for location data. This allows for highly accurate GPS tracking for various applications.



Figure 4: The XGPS150A positioned on a car dashboard, demonstrating its use in automotive navigation. The non-slip pad helps secure the device.



Figure 5: The XGPS150A secured to a user's arm using the adjustable strap, suitable for outdoor activities like hiking or running.

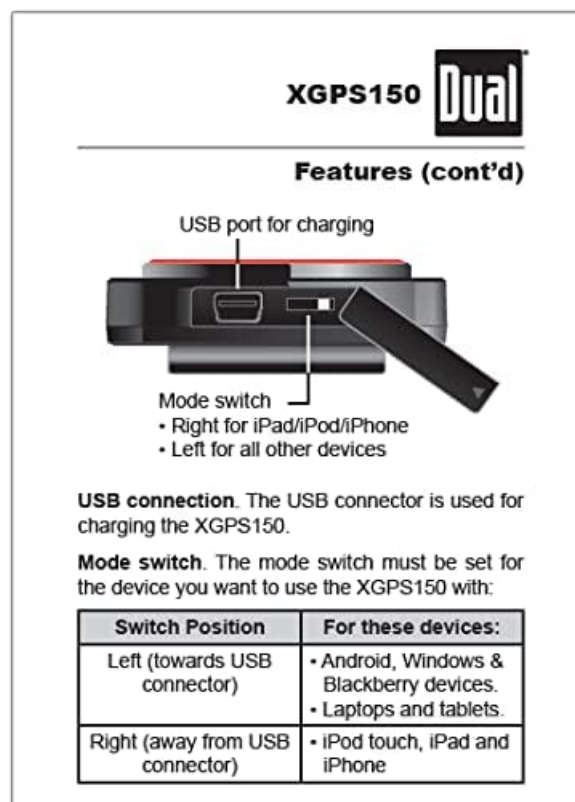


Figure 6: The XGPS150A attached to a strap, possibly on a backpack or clothing, highlighting its versatility for various uses.

6.2. Application Compatibility

The XGPS150A is compatible with hundreds of applications across various categories, including:

- Car, Marine, and Aerial Navigation
- Hiking and Outdoor Activities

- Fitness Tracking
- Social Networking (location-based services)

6.3. Battery Life

The XGPS150A provides approximately 8.5 hours of continuous use on a full charge. Battery life may vary depending on usage and environmental conditions. Monitor battery status via the GPS Status Tool app or the Battery Indicator LED.

7. MAINTENANCE

7.1. Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the surface.

7.2. Storage

When not in use for extended periods, store the XGPS150A in a cool, dry place. It is recommended to charge the device periodically (e.g., every 3-6 months) to maintain battery health.

8. TROUBLESHOOTING

If you encounter issues with your XGPS150A, refer to the following common problems and solutions:

- **Device does not power on:**
 - Ensure the device is charged. Connect it to a USB power source.
 - Press and hold the power button for at least 3 seconds.
- **Cannot pair via Bluetooth:**
 - Ensure the XGPS150A is powered on and the Bluetooth indicator is flashing.
 - Verify the mode switch is set correctly for your device (Apple vs. others).
 - Ensure Bluetooth is enabled on your connecting device.
 - Try restarting both the XGPS150A and your connecting device.
 - Forget the device in your Bluetooth settings and attempt to pair again.
- **No GPS signal or inaccurate readings:**
 - Ensure the XGPS150A has a clear, unobstructed view of the sky. Avoid using it indoors or under heavy cover.
 - Check the GPS Indicator (green LED) on the device; it should be solid green for a stable fix.
 - Verify that your application is configured to use external GPS data if applicable.
 - Check for any local interference that might affect GPS signals.
- **Battery drains quickly:**
 - Ensure the device is fully charged before use.
 - Continuous use of GPS and Bluetooth will consume battery.
 - Battery performance may degrade over time with repeated charging cycles.

9. SPECIFICATIONS

Feature	Detail
Model Number	XGPS150A
Product Dimensions	4.13 x 6 x 2.13 inches
Item Weight	1.76 ounces
Connectivity Technology	Bluetooth
Battery Type	1 Lithium Ion battery (required)
Battery Life	8.5 Hours (continuous use)
Charging Time	Approx. 2.5 hours
GPS Accuracy	Within +/- 2.5m (with WAAS)
Max Speed	1,150 mph
Max Altitude	59,000 ft
Color	Black
Included Components	XGPS150A, USB Charging Cord, Adjustable Strap, Non-Slip Pad

10. WARRANTY & SUPPORT

10.1. Warranty Information

The Dual Electronics XGPS150A comes with a standard 1-year warranty. An extended 2-year warranty is available when registered online at dualav.com. Please retain your proof of purchase for warranty claims.

10.2. Customer Support

For further assistance, technical support, or warranty inquiries, please visit the Dual Electronics official website or contact their customer service department. You can also find additional resources and FAQs on the Dual Electronics store page on Amazon:

[Visit the Dual Electronics Store on Amazon](#)