Garmin eTrex 22x

Garmin eTrex 22x Rugged Handheld GPS Navigator User Manual

Introduction	Setup	Operating	Maintenance	Troubleshooting	Specifications	Warranty	Support

1. INTRODUCTION

The Garmin eTrex 22x is a rugged handheld GPS navigator designed for outdoor enthusiasts. It features a 2.2-inch sunlight-readable color display, preloaded TopoActive maps, and support for both GPS and GLONASS satellite systems for enhanced tracking accuracy in challenging environments. With 8 GB of internal memory and a microSD card slot, it offers ample space for additional maps and data. This manual provides essential information for setting up, operating, and maintaining your device.

Figure 1: Garmin eTrex 22x Rugged Handheld GPS Navigator

Key Features:

- **2.2-inch Sunlight-Readable Color Display:** Provides clear visibility in various lighting conditions.
- **Preloaded TopoActive Maps:** Includes routable roads and trails for cycling and hiking.
- **Dual-Satellite Support:** Utilizes GPS and GLONASS for improved tracking in challenging environments.
- **8 GB Internal Memory:** Ample storage for map downloads and data.
- **MicroSD Card Slot:** Expandable memory for additional mapping.
- **Long Battery Life:** Up to 25 hours in GPS mode with 2 AA batteries.

Video 1: Overview of Garmin eTrex 22x features, including its sunlight-readable display, preloaded maps, and dual-satellite support.

2. Setup

2.1 Battery Installation

The eTrex 22x operates on two AA batteries, providing up to 25 hours of use in GPS mode. For optimal performance, use high-quality alkaline or NiMH rechargeable batteries.

1. Locate the battery compartment cover on the back of the device.
2. Twist the D-ring counter-clockwise and lift the cover to open.
3. Insert two AA batteries, ensuring correct polarity (+ and -).
4. Replace the battery cover and twist the D-ring clockwise to secure it.

Support for GPS and GLONASS satellites allows for tracking in more challenging environments than GPS alone.

Figure 2: Back view of the eTrex 22x, illustrating the battery compartment.

2.2 Initial Power-On

To power on your device, press and hold the **Power** button located on the side until the screen illuminates. The device will then begin acquiring satellite signals. This may take a few minutes, especially during the first use or if you have moved a significant distance since the last use.

2.3 MicroSD Card Installation (Optional)

To expand storage for additional maps or data, you can install a microSD card (not included).

1. Open the battery compartment cover.

2. Locate the microSD card slot, usually near the batteries.

3. Insert the microSD card into the slot until it clicks into place.

4. Close the battery compartment cover securely.

3. OPERATING THE DEVICE

The eTrex 22x uses a combination of buttons and a joystick for navigation. The main menu provides access to various functions.

3.1 Navigating the Menus

Use the joystick to scroll through menu options and press it to select an item. The **Menu** button (left side) provides context-sensitive options, while the **Back** button (right side) returns to the previous screen.

Figure 3: Front view of the eTrex 22x, highlighting the display and control joystick.

3.2 Using Maps

The device comes preloaded with TopoActive maps. To view the map, select the **Map** icon from the main menu. You can zoom in and out using the dedicated zoom buttons on the side of the device. The map displays routable roads, trails, and geographical features.

8 GB of internal memory for map downloads plus a microSD™ card slot.

Figure 4: eTrex 22x displaying a topographical map with elevation lines.

3.3 Navigation and Waypoints

To navigate to a specific location, you can create waypoints or select a destination from the map. The device will provide turn-by-turn directions or a direct route, depending on your settings.

- **Mark Waypoint:** From the main menu, select **Mark Waypoint** to save your current location.
- **Where To?:** Select **Where To?** to search for destinations, including cities, addresses, or saved waypoints.
- **Compass:** The compass screen provides directional guidance to your destination.

Figure 5: eTrex 22x showing the compass screen with speed, distance, and time to next destination.

3.4 Satellite Information

The eTrex 22x supports both GPS and GLONASS satellite systems. To view satellite acquisition status and accuracy, select the **Satellite** icon from the main menu. This feature ensures reliable tracking even in challenging environments like dense forests or deep canyons.

4. MAINTENANCE

4.1 Device Care

- **Cleaning:** Clean the device with a cloth dampened with a mild detergent solution. Wipe it dry. Avoid chemical cleaners and solvents that can damage plastic components.
- **Storage:** When storing the device for an extended period, remove the batteries to prevent leakage. Store in a cool, dry place away from direct sunlight.
- **Water Resistance:** The eTrex 22x is designed to be rugged and water-resistant. However, ensure the battery cover and USB port cover are securely closed to maintain water resistance.

4.2 Software Updates

Periodically check the Garmin website for software updates. Updates can improve performance, add new features, and enhance map data. Connect your device to a computer using the provided USB cable to perform updates.

5. TROUBLESHOOTING

5.1 Device Not Powering On

- Ensure batteries are inserted correctly with proper polarity.
- Replace old batteries with fresh ones.
- Check if the battery contacts are clean and free from corrosion.

5.2 Poor Satellite Reception

- Ensure you are in an open area with a clear view of the sky.
- Avoid dense tree cover, tall buildings, or deep canyons.
- Allow sufficient time for the device to acquire satellite signals, especially after initial power-on or long periods of inactivity.

5.3 Screen Readability Issues

- Adjust the backlight settings in the device's setup menu.
- The sunlight-readable display performs best in direct sunlight.

6. SPECIFICATIONS

Feature	Detail
Brand	Garmin
Model Name	eTrex 22x
Screen Size	2.2 Inches
Display Type	Color TFT
Resolution	240 x 320 pixels
Memory Storage Capacity	8 GB
Supported Satellite Navigation System	GLONASS, GPS
Battery Life	25 Hours (with 2 AA batteries)
Mounting Type	Handheld
Human-Interface Input	Buttons
Item Dimensions L x W x H	2.1"L x 1.3"W x 4"H
Item Weight	4.96 ounces
Included Components	eTrex 22x; USB Cable; Documentation

7. WARRANTY

The Garmin eTrex 22x comes with a **1-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the official Garmin warranty documentation included with your product or visit the Garmin support website.

8. Support

For additional support, including detailed manuals, software updates, and customer service, please visit the official Garmin support website. You can also find FAQs and community forums to assist with common questions and issues.
Garmin Support Website: www.garmin.com/support