Bushnell®

ONIX350
GPS RECEIVER
Quick Start Guide

Model # 363500   English   Lit # 98-1246/08-08

Warnings and Notices

GPS System & Map Data Accuracy Notice:
The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes which could affect the accuracy and performance of all GPS equipment.

All map data sources contain some level of inaccuracies or incomplete data. Bushnell strives to provide the most recent map information at a reasonable cost. Basemap data is supplied by NAVTEQ®, a major supplier of digital map data for handheld and vehicle navigation products worldwide. NAVTEQ® continually refines and improves their digital map databases to maintain their leadership position in the industry.

Warning:
This device is intended as a supplemental handheld navigation aide only. The user assumes all responsibility associated with the use of this product. It must not be used for any purpose requiring precise measurement of location, direction, distance, velocity or topography. This device should not be used for any aircraft navigation applications.

Warning:
This device uses a rechargeable lithium-ion battery pack. Follow the directions for charging the battery before use. Do not attempt to open the battery pack, modify or charge it other than as directed. Check the battery compartment after the unit has had any prolonged exposure to significant amounts of water (rain, snow, etc), and remove any moisture before continuing to use the unit. If it becomes necessary to dispose of the battery pack, please take it to your local waste collection service or recycling center for environmentally responsible processing.

Vehicular Use Notice:
Bushnell is committed to the safe and responsible enjoyment of the outdoors.
Do not use this product while driving. An accident can result in property damage, injury or death if the operator fails to practice prudent driving practices. It is the sole responsibility of the driver of any vehicle to operate the motor vehicle in a safe manner. Information from the GPS unit can distract the operator of a motor vehicle. It is unsafe to operate the controls of the GPS unit while operating a motor vehicle. If used in a motor vehicle, it must not be used by the operator of the motor vehicle. If it is used in a motor vehicle it must be mounted in a manner such that it does not distract the operator, does not interfere with the operator's field of view, and does not block or interfere with the air bags or other safety mechanisms of the motor vehicle.

Software License Agreement

BY USING THE ONIX, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Bushnell grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights and intellectual property rights in and to the Software remain with Bushnell.

You acknowledge that the Software is the property of Bushnell and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization and code of the Software are valuable trade secrets of Bushnell and that the Software in source code form remains a valuable trade secret of Bushnell. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America.

The Almanac Page and Solunar Edge Technology

by Speedtech° Instruments

The Bushnell ONIX 350 features a unique Almanac page, which uses patented Solunar Edge technology developed by Speedtech® Instruments to provide a significantly more accurate predictor of animal and fish activity than standard "sun & moon tables", utilizing the current environmental pressure and temperature condition data to provide the most reliable activity predictions for your location.

About Solunar Edge Technology

The various environmental conditions affecting wildlife behavior have been integrated in a mathematical algorithm to determine optimal animal and fish activity times. The factors and relationships used in the instrument were obtained through an extensive study of the scientific literature, and use of well documented wildlife behavior studies. This information, combined with discussions with wildlife biologists and experienced outdoorsmen, has contributed to the development of the software used in the Solunar Edge to provide you with the ability to determine the absolute best predictor of animal and fish activity.

Thank you for purchasing the Bushnell ONIX350 – the most advanced outdoor navigation device available today! The ONIX350 comes preloaded with a base road map of the United States and Canada including a Points of Interest data base. The GPS receiver has the capability to receive satellite signals worldwide.

ONIX has been designed to be much simpler to operate than other handheld GPS receivers, while offering powerful features like TruView Navigation, which allows you to layer satellite photos or topographic maps right over your trail map screen, providing a useful "real world" frame of reference[1]. Your trails, a compass or other navigation aids-as much or as little information as you choose can all be displayed together in various combinations on the extra large 3.5" full color LCD screen.

The ONIX GPS lets you easily create and store user profiles that let you save your most frequently used personal setups. Bushnell's exclusive SafeTrack™ battery conservation feature extends your battery life while maintaining GPS contact, so you can check your current location anytime without the restart delay typical of other GPS receivers. You will find your ONIX to be an invaluable companion for all your outdoor adventures. Just hit the "HOT" button to quickly see your current position on the map. Want to see the temperature there, or wondering if a storm is coming? Just go to the Weather page. If you hunt or fish, wouldn't it be great to know when wildlife was likely to be most active in the forest or lake area you're headed for tomorrow? An Almanac page uses data from internal sun and moon tables along with a barometric pressure sensor to predict animal activity levels at different times of the day- for any date and location. Like to climb? A built-in altimeter works with GPS data on the Elevation page to display a graph showing your current altitude and compare it to any other point on your trail since you started up the mountain, see how the total ascent adds up, and see the distance or elevation difference between any two points of your choice.

Before using your new ONIX, please read the instructions contained in this manual and take time to familiarize yourself with the unit's operation and many great features. You may want to start near your home, by turning on the ONIX, then pressing the MENU button to run through the different display pages (MAP, NAV, SAT, SET, etc) while reading the manual section for each. After that, practice using the "HOT" button and 5-way button to see and select from a menu of options, perhaps on the SET screen by setting a few personal preferences for information displays. Once you begin feeling more comfortable with the controls and screens, the best way to really learn to use your ONIX is to take it outside (right in your own neighborhood or a local park), and let it lock onto the GPS satellite signals as you watch the SAT page (be patient, this can take 3 or 4 minutes the first time you use it-make sure you have a clear view of the sky and are not right next to a large building for best results), then take a short walk and finish by using the ONIX to guide you back to your starting point (you can either mark a waypoint at the start by clicking the center of the 5-way button twice, or just begin walking, later following the dotted "breadcrumb" trail back). After that, you might try downloading a satellite photo of this local area, layer it on top of the map screen, and try walking the same trail again, setting a few waypoints as you go. Continue referring to this manual and practicing as often as necessary until you master the basics, before heading out on a hike of any significant length or attempting to navigate an unfamiliar area.

### ONIX 350 Model # 363500 FEATURES

• Extra Large 3.5" Full Color, Sunlight Readable LCD	• Download Topographic Maps [1]
• Altimeter for Elevation Tracking	• Download Georeferenced Satellite Photographs [1]
• Heads-Up Digital Compass	• SiRF 20 Channel GPS Receiver, WAAS Enabled
• Built-In Base Maps (North America)	• Waterproof (IPX7 Standard)
• Save/Load Waypoints, Trails and Routes	• Durable Rubber Armoring
• Stores Up to 1000 Waypoints, 50 Routes, 50 Trails	• SafeTrack™ Battery Conservation Mode
• Micro SD Card Storage (512MB card inc.)	• Internal Pressure and Temperature Sensors
• Exclusive TruView Navigation with Screen Layering	• Sun & Moon Tables with Wildlife Activity Prediction

[1] Download satellite photos and topo maps at www.bushnellgps.com

INCLUDED PARTS LIST

- ONIX 350 GPS Receiver
- Lithium Ion Battery Pack
- 512MB MicroSD Card
- AC Charging Cord

- USB Cable
- Info Pack with Quick Start Guide, Registration Card, and CD-ROM

BATTERY CHARGING, CLEANING & MAINTENANCE

• The internal Lithium Ion battery pack must be charged before the ONIX can be used for the first time. Make sure the MicroSD card is inserted in the card slot first, then attach the battery pack by lining it up with the opening on the bottom of the unit, pushing it straight onto the unit until flush with the surface, then sliding the battery down towards the end with the USB and accessory ports, until it locks securely into place (to remove the battery, press the soft release area (see yellow arrow below) at the curved end of the battery, then slide it up and lift directly away from the ONIX body). Connect the supplied AC charging cord to the accessory connector port at the bottom of the unit, then into a wall outlet. When the Status LED changes from red to green, the battery is fully charged.

• The ONIX is designed to be waterproof to a depth of 1 meter (IPX7 rating), however it is recommended that the user opens and checks the battery compartment following any submersion or prolonged exposure to rain, snow, etc. Any moisture observed inside the battery compartment or on the exterior of the battery pack or MicroSD card should be dried off immediately and completely. Prolonged submersion (over 30 minutes) and/or to water depths greater than 1 meter can cause damage to the unit.

• If the ONIX exterior becomes dirty, clean it with a soft cloth dampened with a mild detergent solution, then wipe dry. To avoid possible scratches, a (dry) micro fiber cloth is ideal for cleaning the display screen. Do not use chemical solvents or cleaners of any type on the ONIX unit's exterior, battery compartment, or display, as these may damage plastic components.

Push here to release battery pack

To attach battery pack

MicroSD Card
Push In to Insert or Remove
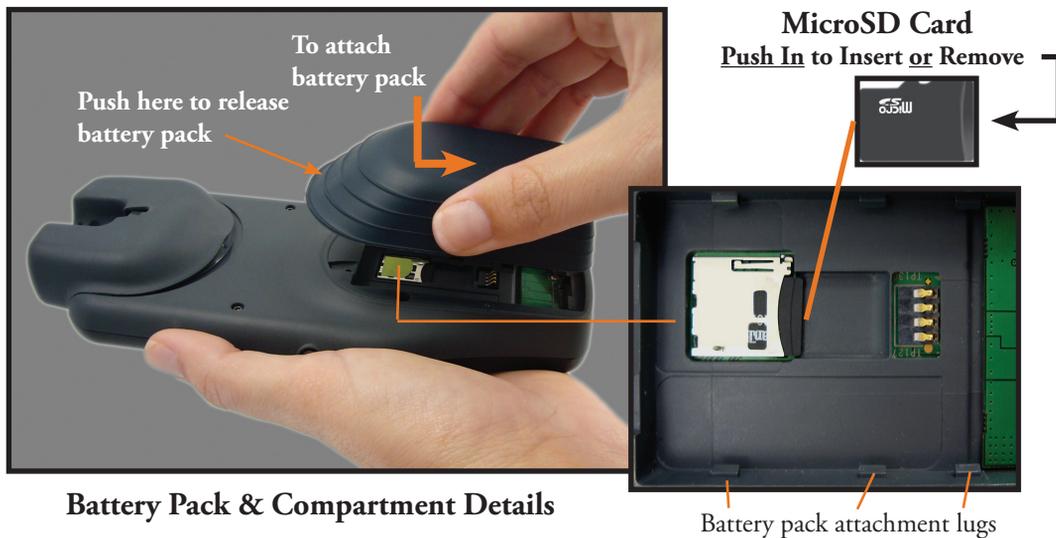
Battery Pack & Compartment Details

Battery pack attachment lugs

5

CONTROLS AND PORTS IDENTIFICATION

Helical Satellite Antenna and Lanyard Attachment

5-Way Button (Key) Pad: Used to navigate on screen, select from menu options, and create waypoints. Press UP/DOWN keys to select items in a menu, RIGHT key to view submenus (if available), LEFT key to exit the menu. Press the "OK" center button to confirm a menu selection or turn an option on/off. Press the "OK" button to set a waypoint on the MAP.

Current Page Indicator

3.5" Color LCD Display Screen

Battery Level Indicator

Power Button: located on right side of ONIX. *Push* to turn on. Once the unit is on, *press briefly* to see the **Power Menu**. *Hold* button for 2 sec to turn power off.

Zoom Buttons: Zoom the view closer in or further out on maps and photos by pressing the "+" or "-" buttons. Also used to view additional page menu lists or tabs.

EXIT Button: Press to exit any menu and return to current screen with selected layers and info boxes.

MENU Button: *Press* to view Main Menu with choice of 7 Pages. (*Hold down* to see **Display Options** for layers/info boxes.)

USB Port: connect to PC with supplied cable

"Hot" Button: controls all actions:
• Navigation
• SafeTrack

Status LED:
Red=charging,
Green=battery charging complete.
Blinking Red (during use)= SafeTrack mode

Accessory Port: used for AC charging cord

Battery Pack Module: houses Lith-Ion battery pack. Also covers MicroSD card slot.

# THE SEVEN PAGES OF THE ONIX350

1. **SAT** (Satellite) - this page allows you to monitor the signal strength of multiple GPS satellites, confirming when you have a "lock"-adequate number and quality of satellites to ensure good reception.
2. **NAV** (Navigation) - a basic display of the digital compass. View your current heading and true or magnetic north at any time by switching to this page.
3. **ALMANAC** - this page lets you view lunar and solar information for your chosen location, including sunrise/sunset times and Solunar data graphs that can help predict the level of mammal and fish activity.
4. **ELEVATION** - your current altitude as well as a graph of changes in altitude over time as you travel on a trail.
5. **MAP** - you will likely spend the most time on the MAP page, since it shows your current location relative to other objects and places. You can layer a compass, photos, and other navigation related items alone or in combinations over the top of the base map, making it even more useful and informative.
6. **WEATHER** - Local temperature and barometric pressure data based on internal sensors, as well as a weather forecast prediction and pressure graph derived from the sensor data, altitude, etc.
7. **SET** (Setup) - go here to set your personal user preferences, enable XM satellite reception, setup a custom user profile, and other user adjustable operating utilities.
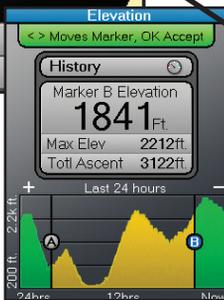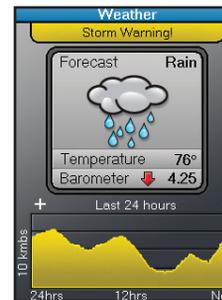
Main MENU
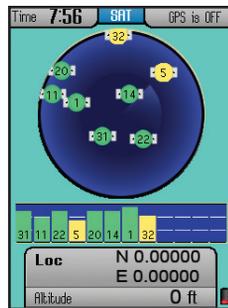
1. SAT Page   2. NAV Page   3. ALMANAC Page

4. ELEVATION Page   5. MAP Page   6. WEATHER Page   7. SET Page

Press the MENU button briefly, use the 5-way keypad to select (highlight) a page on the menu display, then press OK (center button) to view and use that page.

TIPS FOR MAXIMIZING BATTERY LIFE IN THE ONIX 350

The ONIX350 uses the latest technology and exclusive features to provide the most efficient combination of battery life and functionality.

The rechargeable Lithium Ion battery pack provides an extended capacity of power.

Power Saving Options

The following features allow the user to extend battery life.

1) Power Menu

Access this quick menu anytime by clicking the Power Button (see *Fig. A*)

The Power menu provides these options to increase battery life:

• Backlight – Turn the backlight "Off" when outdoors in daylight to increase battery life. Use the backlight in low light, or dark conditions, or when indoors.

• Brightness – Select and press OK to use the Brightness slider (*Fig. B*) Increasing brightness increases power consumption. Select a brightness level based on your viewing requirements.

• GPS – Turn GPS "Off" when not using the GPS navigation functions or when indoors where GPS signals are not accessible.

2) SafeTrack™ Battery Conservation Mode

• SafeTrack Mode creates a low power state while maintaining satellite connection

• Utilize SafeTrack to extend battery life during navigation

• Access SafeTrack from the **H**ot button menu (see *Fig. C*).

For more information on Safe Track please reference "SafeTrack Battery Conservation Mode" on pg. 22.

Utilize SafeTrack™ mode to maximize battery life.
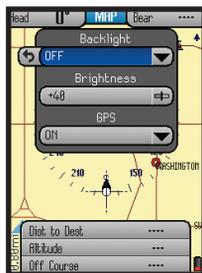
Fig. A   *Fig. B*   *Fig. C*

GETTING STARTED

1. You must charge the battery pack before using the ONIX350. Attach the battery pack (first, verify that the MicroSD card is installed in its slot), referring to the instructions and photos on pg. 5. Plug the AC charger cord into the accessory port (pg. 6), then into an AC outlet (110-120 volt/60 cycle).

2. The initial charge may take up to 4 hours. A full charge is indicated when the status LED below the orange Hot button changes from red to green. You may then disconnect the charger cord from the outlet and accessory port. Store it safely for future use.

3. To ensure adequate satellite signal strength, make sure you are in a location with an unobstructed view of the sky (GPS units typically do not work well indoors unless you are very near to a window)

4. Press and hold the power button for a few seconds until the display starts up.

5. Press the MENU button briefly. You will see the Main Menu screen, with seven "pages" to choose from. Use the 5-way button pad to select (highlight) SAT, then press the "OK" (center) button.

6. You are now viewing the Satellite (SAT) page. You will begin to see multiple icons on the circular "radar" screen, representing the closest satellites to you in the global GPS system. These icons will turn green as the ONIX "locks on" to each satellite, and the satellite ID# will be shown. The bar graph below the "radar" screen indicates the relative signal strength of each satellite. Once you have a lock on at least 3 or 4 satellites, you are ready to navigate. Note that the satellite "lock" process will take longer (up to 3 or 4 minutes), the first time you use your GPS in a new geographical area, but will be much faster on future usage in the same area (see "Reset Data" in the SET Page>GPS options, if you later relocate more than 300 miles away from your initial area). You can check reception with the SAT page at any time, but will likely find that you use it less than any other page-in fact, you may simply go directly to the MAP (or any other) page the next time you use your ONIX.

7. You're ready to go! Let's take a look in more detail at the other pages, and see how easy it is to enjoy the many features and capabilities of the ONIX350 You'll learn how to mark and name your own waypoints (locations or objects you want to return to later), navigate towards a nearby point of interest, layer a compass over the map.....and much, much more!
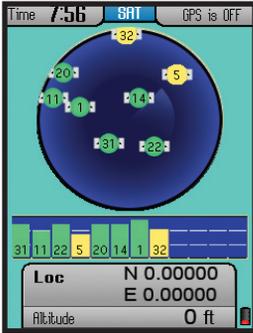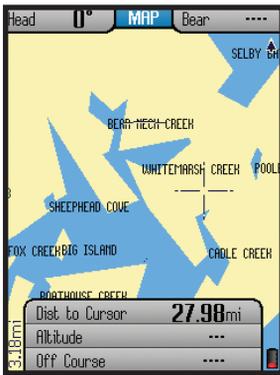
Fig 1. SAT Page

Fig 2. MAP Page
Base Map

Fig 3. MAP Page
Cursors

The many functions and features of your ONIX350 are organized into seven "pages" or screens of related information. Press **MENU**, then use the 5-way button to select (highlight) a page, then press "**OK**" (center button) to view that page. The current page you are on is always indicated in the box at the top of the display, just below the "Bushnell" logo. Let's take a tour of the various pages and the options they provide:

The SAT Page
As seen earlier in "Getting Started", The SAT page view *(Fig. 1)* is used to identify the quality or strength of the satellite signals being received by the unit. The Info Boxes on the bottom of the satellite page are used to identify your location, shown as Location (latitude, longitude) and Altitude (above sea level). The items displayed on the satellite page view are fixed, and cannot be changed by the user, so there is are no options or settings menus for this page.

The MAP Page
You will likely spend more time on the MAP page than any of the others while using the ONIX350. Using Bushnell's exclusive TruView Navigation screen layering feature, this page can display multiple location and navigation related information in a single view. The following items are always displayed on this page:
• **Base Map** *(Fig. 2)*-primary streets and location, similar to a basic road map.
• **Cursor**-shows your location and direction. The cursor can assume one of three shapes *(Fig. 3)*:
    -a *crosshairs cursor* that allows you to pan the map, check the position of waypoints or POI when moved over them, use as a distance measuring tool, or create routes.
    -a *bearing arrow* that shows your navigation direction when you are moving (or heading when you are not actively navigating)
    -a *circle*-"you are here locator" to display your current location relative to the map

•**Zoom Display Level**-on lower left next to the Info Boxes. Shows scale or actual distance represented by height of current display (e.g. "10.2km" span from top to bottom of screen). Use the "+" and "-" buttons to change the zoom level.

MAP Page Layering Options utilizing TruView Technology

You may choose to add other items to your view of the MAP page. To select these items, press the HOT button, then press the DOWN key until "Map Detail" is highlighted, and press OK-you will see a map page layer options screen *(Fig. 4)*. Use the 5-way button to move up and down the options, press the center button to select (check) or deselect (uncheck) the items you wish to include in your view. Press EXIT or use the LEFT key to exit the map layer options.

The MAP page layer options list:
- *Compass*- exclusive to ONIX, your compass shows your direction right on top of the map.
- *Range Rings (Fig. 5)*-visual tool that represents distance on your map or photo within a circle. The distance shown is the radius of the circle. This radius is half the zoom level. Use Up/Down on the 5-way pad to adjust the radius of the rings, then press OK to exit.
- *Photos* (Aerial/Satellite) *(Fig. 6)* -superimposed over Base Map if desired. You do not need to manually select the right photo (or topo map) to use, as these downloaded files are "geo referenced", enabling your ONIX to choose the correct photo automatically, based on your current location and zoom level. Note that while both types of images can be stored at the same time on your ONIX, only one of them (photo or topo map) can be displayed over the base map at a time.
- *Topo*-the topographic map you choose from files you download and store in the ONIX will be layered over the base map
- *North UP*-when checked, the top of the screen is oriented due north. If unchecked, the top of the screen is oriented to your current direction of travel (i.e."track up"-like automotive GPS units). Satellite photos and topo maps are displayed "North Up" by default.
- *Map Data*-turns on/off display of roads and places on the base map
- *Bread Crumbs*-a dotted line on the display showing the simple path you've traveled. Breadcrumbs are automatically stored, but only displayed if this option is selected.
- *Points of Interest*-major or common facilities from a pre-programmed list (airports, hospitals, etc)

Setting Up and Using the Info Boxes
(MAP & NAV Pages)

The wide rectangular Info Boxes at the bottom of the Page display (along with two smaller boxes at the top of the screen) allows you to keep an eye at all times on a wide variety of information, all user selectable-they let you "customize" your display (in the MAP and NAV Pages). Take a moment to explore the Info Boxes by following these steps:
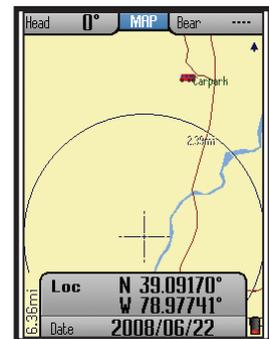

Fig 4. MAP Page **Layer Options**
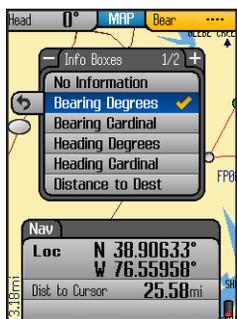

Fig 5. MAP Page **Range Rings Layer**

Fig 6. MAP Page **Satellite Photo Layer**

11

Fig 7. Info Boxes
Info Box Options (Nav)
for lower boxes

Fig 8. MAP Page
Info Box Options
for upper boxes

Upper Info Boxes

Lower Info Boxes
(0 ~ 4, set by user)

Fig 9. MAP Page
4 Info Boxes After
Set Up and Exit

Setting Up and Using the Info Boxes-*continued*

1. Go to the MAP page if you are not already there (this example will use the MAP Page as a starting point, but Info Boxes are available on other Pages as well).

2. Hold the MENU button for 2 sec. You will see a "Nav" tab pop up above the lower set of Info Boxes, and the first Info Box is highlighted.

3. Press OK to see a list of the different types of information available to display in the Info Box (*Fig. 7*). Four sets of lists are available-use the "+" and "-" buttons to see the other lists.

4. Use UP/DOWN buttons to highlight one of the listed options (for example, "Local Time" from the 3rd list) (*Fig. 8*), then press OK to checkmark it (press EXIT to return without changing the selected Info Box). The first Info Box will change to display the local time-your new selection has replaced the previous type of info.

5. Press DOWN to select the second Info Box and repeat steps 3 & 4 to change what is displayed in this box. Repeat the process again if you like for the third box. Note that if you choose "Location" (your latitude/longitude) for one of your info boxes, it will take up 2 Info Boxes (latitude is the top box).

6. You may have noticed that there is an option at the top of the first list of information types labeled "No Information". You may select this option for any of the Info Boxes if you prefer not to use one or more of them-as selecting "No Information" will actually clear and remove that Info Box "slot" from the lower set of boxes. You can reduce the "stack" of three boxes you start with to just two, one or even zero. You can also press DOWN to step below the third box, where you will find that a fourth box is "hidden" because "No Information" is selected for display there. Simply select something else, and you can have up to a maximum of 4 Info Boxes in the lower part of your Map screen (*Fig. 9*).

7. Once you have set up the lower Info Boxes with a few different types of Nav data, press EXIT or hold MENU again to leave the Info Box setup process and return to normal display. The info you chose will still be displayed in the boxes, and any boxes with "No Information" selected will not appear.

8. You can also change the info displayed in the upper two Info Boxes, but these can only be used to show Nav related data. After following step 2 above to highlight the first lower Info Box, press UP and you will jump to the upper left Info Box. Press OK to see the list of info to display here (then press "+" to see a second list). As described in step 4, make a selection from one of the lists, then press OK. Press RIGHT to jump to the upper right Info Box and repeat. Once you have one or both upper boxes set up as you like, press EXIT.

The NAV Page

The NAV page provides a standard compass display, with arrows to indicate your last heading and/or current bearing, along with magnetic or true north indication and other optional navigation related data, depending on the display preferences the user has set up. *(Fig. 10)* This page is especially useful if you do not choose to see a compass image layered on top of the MAP page-you may switch over to it at any time, then return to MAP page just as you left it. The ONIX350 utilizes a digital compass, so you do not need to be moving to obtain a bearing, unlike GPS driven compasses. The digital compass is self-calibrating (no user- initiated calibration routine is required).

The view options (press the HOT button, DOWN to Compass Options, press OK) of the NAV page include (*Fig. 11*):

>•***Heading Arrow***-if user selected. Small arrow "head" only. Indicates the direction you are actually moving in.

>•***North Arrow***-if user selected-points to true or magnetic north (user options). Identified by "N" circle at head of arrow.

>•***True North***-direction to the earth's geographic north pole.

>•***Magnetic North***- direction to the earth's magnetic north pole Note: you can select True or Magnetic North, but not both together-they are mutually exclusive.

>•***Bearing Arrow*** (*Fig. 10*)- only appears during active navigation *(see pg.10, Fig. 3)*. This will be seen as a long black line with an arrow head. It indicates where you should go to get to your navigation destination, and is only valid while navigating.

Upper and Lower Info Boxes are visible while on the NAV Page-these operate the same way as previously described in the MAP Page section ("Setting Up and Using the Info Boxes")

The SET Page

The SET page user options (*Fig. 12*) include all the following:

• **User Profiles** *(Fig. 13)*-select to customize and set various display options. You can save different sets of screen configurations that are best suited to your different activities.

>To save a profile, select an activity from the list (hiking/camping, etc), then press the right arrow to save your current display configuration under that name. The checkmark indicates the current active profile. One "custom" user profile may bet setup and selected in addition to the other five pre-named profiles for common activities (Hiking/Camping, Hunting, Inland Boating, Ocean Boating, Geocaching, Custom). You may also choose to "Reset to default" instead of saving your current settings as one of the profiles-this restores the original factory default screen configuration (display options for all pages).

Fig 10. NAV Page

Fig 11. NAV Page **View Options**

Fig 12. SET Page
Options List

Fig 13. SET Page
User Profiles

Fig 14. SET Page
**Reset Data
Options**

• **GPS**-press the right button and select GPS satellite reception "ON" to for normal GPS operation, select "OFF" to conserve battery life if you are not going to be navigating, or while you are getting more familiar with your ONIX indoors where GPS reception is not possible. Two other options are available:

WAAS (Wide Area Augmentation System)- turning WAAS on will provide slightly better GPS accuracy in the United States. As this can decrease battery life, you may want to keep it turned off for most normal navigation activities.

Cold Start Receiver-press OK to re-activate GPS satellite reception. This will force the ONIX to clear the satellite "almanac" information, which is stored automatically during the first power-on to speed up the process of choosing the best GPS satellites for your usual starting area. If this almanac data is no longer valid, it will cause longer startup times. Enabling a cold start is recommended if you have re-located to a new area that is over 300 miles away from your last power-on position. Note that this will only take effect the next time the unit is powered on-there is no advantage or reason to force a cold start if the unit has already locked onto satellites in a reasonable amount of time, and are still within about a 300-mile radius of the location where you first powered up the ONIX.

• **Compass**-options to select your preferred navigation units (Degrees, Cardinal Letter, or Mils) and North Reference (True or Magnetic).

• **Display**-allows adjustment of display Brightness and Breadcrumbs Color.

• **Sounds**-options to mute all sounds, set volume, and mute or select different tones for: key beep, destination arrival and warning sound.

•**Time**-sets time format: 24 hr or AM/PM, North American time zone, UTC (Universal Time) Offset (for other time zones), daylight savings (on/off/auto).

•**Units**-selecting distance/speed units, elevation units, GPS position format, pressure, temperature, and datum (default for North America is WGS84-see the glossary for more info.)

•**Language**- selects language used for all display menus and option screens.

•**Owner Info**- allows you to input personal information for identification (this can be shown during startup if desired). Please refer to the "**Using the Text Tool**" section on page 19 for details on how to enter letters and numerals.

•**Reset Data**-*(Fig. 14)* allows you to reset (clear) all existing data, or speed, distance, time, or breadcrumb data individually or in any combination. Press OK to select any item or items, then go down to "Reset Selected" and press OK to reset it/them. After resetting, the "checkmark" next to the item(s) will disappear, and a "Reset Complete" message is shown. A common use of reset is to clear old "breadcrumb" trail marks from a past trip to the same area.

• **Unit Info**-provides hardware/software version numbers, serial number, etc.
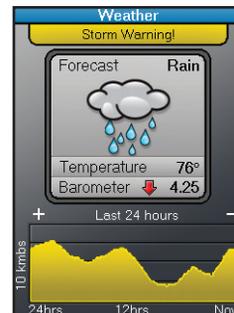
The WEATHER Page

The Weather Prediction page *(Fig. 15)* displays the current temperature and barometric pressure at your position (based on the data from internal sensors in the unit). The pressure indication box also displays a rising or falling "trend" arrow (unless the pressure is steady), and pressure data stored in the unit for up to 24 hours is used to generate a forecast based on how significant the increase or decrease in pressure is over time. A rapid drop in pressure (>6 mB) triggers a Storm Warning message. A graph at the bottom of the Weather page tracks the change in pressure over time (beginning after the unit has been on for at least half an hour). Press "+" or "-" to change the horizontal scale and view presssure variance over a longer or shorter time period. The vertical scale automatically changes to "fit" max presssure. If the ONIX unit's power is turned off, temperature and pressure will not continue to be actively measured. However, the pressure readings are stored in memory, so when the unit is turned on again, the graph will resume where it stopped when you shut down before-therefore, it is showing pressure during an accumulated total of up to 24 hours of active (powered) operation, not necessarily pressure over a <u>continuous</u> 24 hour period. If you wish to continuously monitor barometric pressure, you can use the SafeTrack feature to enter "sleep mode" while maintaining uninterrupted weather sensor operation with minimized battery drain.

No HOT button menu is available for the Weather page.

The ALMANAC Page

The Almanac page *(Fig. 16)* primarily is used to view the information stored in internal **Solunar Edge*** data tables, which includes times for sunrise, sunset, and times when the moon's position is overhead or "underfoot", along with a graphic showing the current moon phase. This solunar chart data can be displayed for your current position, or any waypoint, point of interest, a location in another city or state, etc. You also have the option of viewing solunar data for a past or future date. Many outdoorsmen have found that animals and fish seem to exhibit higher or lower levels of activity related to the position of the sun and moon (think of its effect on tides) , along with changes in atmospheric pressure. The graph at the bottom of the Almanac page displays the estimated level of animal or fish activity based on the stored data. The "0" line in the middle represents an average level of activity, while "+" or "-" readings (respectively) indicate higher and lower activity levels.

Several options are available on the Almanac page:
• With the top box (above the moon phase graphic) selected, press the RIGHT key to see location options *(Fig. 17)* for the solunar data (data shown is for "where"?). To see the data for your current location, select "Where I Am". Or, move your cursor on the MAP page anywhere you like, and select "Cursor" on the Almanac page to see the data for that location. Other options include selecting a waypoint you stored earlier, a POI, any geographic location (latitude/longitude), etc.

Fig 15. Weather Page

Note falling barometer and Storm Warning

Fig 16. Almanac Page *(Date Selected)*

Fig 17. Almanac Page *(Location Options)*

15

Fig 18. **Almanac Chart:** *HOT Button*

Fig 19. **Almanac Chart:** *Time Period=1 Day*

Fig 20. **Elevation Page**

Fig 21. **Elevation: Trip List**

• Press the HOT button to open a ToolBox with three options *(Fig. **18**)*:
Fishing Chart-highlight this and press OK (a checkmark will appear) if you want the animal activity level chart to be relevant for fish.
Hunting Chart-select and check this if you prefer the activity graph to indicated mammal activity levels.
Set Timezone-select this and press OK to temporarily jump to the "Time" options on the SET page (24 hr or AM/PM format, daylight savings, etc).

• To change the date (for example, if you want to see the solunar data and predicted activity level for a day in the future), press the DOWN key to select the date box. Now you can press the LEFT or RIGHT keys to go back or move ahead to a different date. Or, press OK to get a popup one month calender, then use the 4-way keypad to select a date and press OK. Pressing the "-" or "+" buttons when the calender is displayed will change it to a past or future month.

• Press the DOWN key to select the "time period" box just above the graph, then press either the OK button or RIGHT key to toggle between displaying an animal/fish activity chart for One Day *(Fig. **19**)* (just the currently displayed date in the box above the time period) or for a One Month period of time. ***Note:*** *The green area that will appear shows the correction to the activity graph based on SoLunar Edge Technology. This technology incorporates local pressure and temperature variations that affect animal/fish behavior during that part of the day. A red line indicates the selected day (One Month mode) or current time (One Day mode).*

* For more information on patented ***Solunar Edge*** technology and Speedtech Instruments products, visit **www.Speedtech.com**

The ELEVATION Page

The Elevation page uses data from the internal altimeter to display elevation related information, including your current location's elevation, the maximum elevation reached on your trail, and the ascended total distance in feet or meters *(Fig. **20**)*. You can view the elevation history for any of your previously stored trails or the current one you're on. A graph at the bottom of the screen shows how your elevation has changed over time (up to 24 hours), or over distance traveled on a trail. "A" and "B" markers may be placed on the graph to easily compare the elevation differences between two points of distance or time on the trail. These markers are independent and each can be shown on the graph or not, removed, or "Set to Now" to indicate your current position. Select the Elevation page on your ONIX350 and explore the features and options:

With "History" highlighted at the top of the screen, press OK to see a list of your stored Trails *(Fig. 21)*. Select a Trail from the list and press OK to replace "History" on the page-you now see the elevation history for that trail, showing the changes in altitude as you originally walked/created the trail.

Press the HOT button to see the Elevation page ToolBox *(Fig. 22)*, with these options:

Show Distance-press OK to check, the horizontal scale on the graph will represent change in elevation over distance traveled (based on trail breadcrumbs).

Show Time-same as above, but scale will indicate elevation change over time. You may choose either distance or time for the horizonal graph scale but not both at once.

Marker A-press OK to add "A" marker to the graph. Press the RIGHT key for 3 options *(Fig. 23)*: Show Marker (toggles marker visibility), Set to Now (resets marker to your current position), Remove (deletes the graph marker).

Marker B-same as above, for Marker "B". Add this second marker to compare elevation differences between two points in time or distance on a trail.

Set Units-pressing OK temporarily jumps to the SET page so you can choose your preferences for distance and altitude units (kilometers or statute miles, feet or meters, etc).

Calibrate Altitude-if you know that the actual altitude at your current location is different than what the display indicates (this can happen due to changes in barometric pressure), press OK to use the onscreen keyboard to manually enter the true altitude for your position. Calibrating Altitude is a recommended step to ensure the best possible accuracy of all data shown on the Elevation page.

After one or both Markers have been set, you can freely modify them. First, press the UP or DOWN key to highlight the Marker (dot labeled with "A" or "B") on the elevation graph. You can then do the following:

• Press OK to show or hide the Marker. Turn both markers on to see a comparison in altitiude between two different locations separated by distance or time *(Fig. 24)*, for example, two rest points where you stopped on a mountain climbing trail a few hours apart. Or, turn on only one marker to compare another point in distance or time with "Now" (your current position). Turning one or both markers on or off affects how much elevation related data is shown in the center box on the Elevation page. When only one Marker is set up or visible on the graph *(Fig. 25)*, it's elevation will automatically be compared to "Now" (your current position). For example, you will see a data row in the Elevation page box named "A-N Ascent" that tells you the total distance (with altitude factored in) traveled between the Marker A position and "N" (where you are Now).

• Use the LEFT or RIGHT key to move the Marker position horizontally on the graph

• Use the "+" or "-" keys to change (zoom) the horizontal scale to view elevation changes over a greater or lesser amount of distance or time.
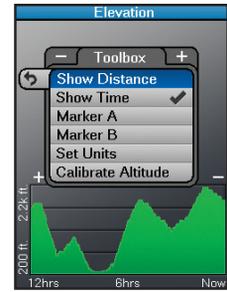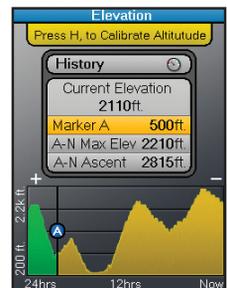

Fig 22. **Elevation:**
Toolbox Menu

Fig 23. **Elevation:**
Options-Marker A
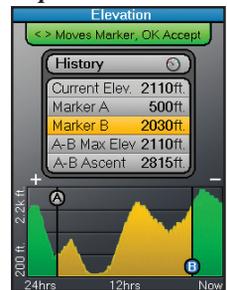
Fig 24. **Elevation:**
Marker A vs B

Fig 25. **Elevation:**
Marker A vs "Now"

17

Fig 26. Waypoint Menu-***Press OK to set new waypoint***

Fig 27. Options for previous waypoints: Navigate To, Edit or Delete

Fig 28. Waypoint "Edit Icon"

Setting Waypoints

The simplest GPS function is to mark your present location, so you can find it again later. Any location that you choose to mark is called a "waypoint". To set a waypoint at your current position, just press "OK" (center of the 5-way button). You will see the Waypoint Menu (*Fig. 26*), with a numbered default name assigned to the new waypoint (WPT000, WPT001, etc) shown at the top, with these options below it: Edit Name, Edit Icon, Activate Alert, Set Waypoint. Since "Set Waypoint" is already highlighted, simply press OK again to accept "WPT###" as the name and create a waypoint at your current position. Or, scroll up to edit the new waypoint's name and/or icon before setting it-this might make it easier to find later (see "How to Create/Edit Names.." and "How to Set/Edit Icons" for details). After editing the name and/or icon, go down to "Set Waypoint" and press OK-you'll then see the new waypoint on the map with the name and icon you gave it. If you decide not to set the waypoint, simply press EXIT or the LEFT key.

To set an alert beep to signal anytime in the future when you return to the waypoint, select "Activate Alert" and press OK to set the alert (repeat to De-Activate previously set Alerts).

Of course, you can always rename a previously set waypoint, change its icon, or delete it entirely at any time in the future. Press the HOT button, then "+" to view the "My Stuff" menu. Select "My Waypoints", press OK, then select the previously set waypoint you want to work with from the list. Press OK, and you will see the Waypoint Options menu (*Fig. 27*). Along with the same options you saw when you originally created the waypoint (Edit Name, Edit Icon (*Fig. 28*), Activate Alert), you can navigate to the waypoint, or delete the waypoint completely (there is a confirmation step to prevent accidentally deleting an important waypoint).

Creating a Map Area *(My Map Areas)*

A special feature available on the MAP page lets the user define a polygonal (triangle, square, etc) area of any size, placed anywhere, which can then be used to simply measure that area (show the total sq.mi. or sq.ft.), help define map and property boundaries, and/or generate an alert message when the area is either entered or exited. This is done by placing a minimum of three virtual "fence posts" on the map which are used to define the limits of the area (*Fig. 29*). The process for setting up a custom Map Area is outlined on the next page. ***More information about utilizing the "My Map Areas" features can be found at:*** **http://www.bushnell.com/gps/** ***by clicking the*** **Product Support** ***link.***

Let's take a look at the basics of setting up and using your Map Areas...

How to Define a New Map Area *(Using "Fence Posts")*:

• Click the HOT button to get the HOT menu, then press "+" to switch to the "My Stuff" menu.

• Highlight "My Map Areas" and press OK-you will see "Create New Map Area", already selected. Press OK.

• A default name for the new Map Area is assigned (MPA001), and you'll see 3 options: Add Fence Post, Edit Name, and Delete. You can edit the name of the Map Area now, or change it later. Select "Add Fence Post" and press OK. The default name for your first Fence Post is "FP001", this can be changed later if you like.

• Use the 4-way keypad to move the Fence Post if you need to fine tune its location (zoom in first with the "+" key if necessary.

• Once you have the first Fence Post where you want it, press OK to confirm and set it. Its name will then be displayed under the Map Area heading (MPA001). Press OK or the RIGHT key to see these options (*Fig. 30*):

> **Insert After**-press OK to place the next Fence Post where the first is (you can then move it elsewhere with the 4-way keypad), or press the RIGHT key to see options for placing the next Fence Post based on a waypoint, POI, your current location, etc.
>
> **Move**-change the position of this Fence Post
>
> **Edit Name**-change the name for this Fence Post
>
> **Set as Post #1**-after selecting a previously placed Fence Post, select this option and press OK to use the same Fence Post as the starting point of a new (adjacent) Map Area.
>
> **Delete**-erase the Fence Post

• Keep using "Insert After" to add Fence Posts until you have placed at least three or four to define the boundaries of the Map Area you are creating. Press EXIT or the LEFT key to see the Map Areas List, with your new Map Area added. With the name of the Map Area selected, press the RIGHT key to view the Area on the base map, with lines visible between the Fence Posts. The Info Box at the bottom of the display will automatically show the total area (in square miles) of the Map Area. If your Map Area is very small, the Info Box changes to square feet instead of miles. If you need to know the area in acres, 1 sq. mi.=640 acres, so simply multiply the number in the info box by 640. For small areas, divide the square feet by 43560 to see the total area in acres.

• Press EXIT to return to the Map Areas list. Press OK to see the list of options for the Map Area (*Fig. 31*):

> **Stay Within**-when this is checked, a "Map Area Breached!" warning will flash onscreen if you leave the Map Area boundary.
>
> **Avoid Area**-check this to generate the "Map Area Breached!" warning if you enter the Map Area (for example, to prevent accidentally trespassing on private property).
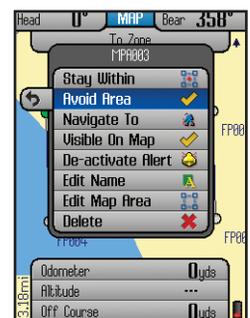>
> **Navigate To**-go towards the closest point in the area relative to your current position
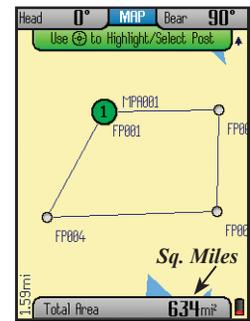
***Fig 29.* Completed Map Area-built with 4 fence posts**
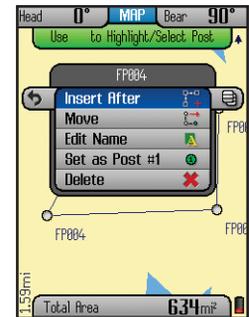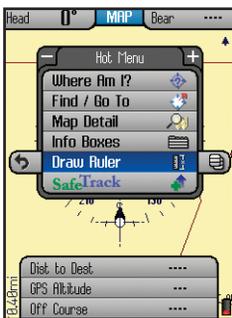

Fig 30. **Map Area Fence Post Options**

Fig 31. **Map Area Options List**

19

Fig 32. Editing a Map Area by Moving a Fence Post

Fig 33. **H**OT Button Menu

Fig 34. **Find/GoTo** Sub-Menu

Visible On Map-turns viewing of the Map Area on/off

De-activate Alert-cancels the warning message that was automatically set when you checked "Stay Within" or "Avoid Area"

Edit Name-change the name of the Map Area

Edit Map Area-select and press OK to access the Fence Post list for that Map Area (to move, delete, rename, etc an individual Post) (*Fig.* **32**)

Delete-delete the entire Map Area

Using the HOT Button

The HOT Menu

When you are on the MAP or NAV page, all basic navigation actions are easily controlled by Bushnell's exclusive "HOT button". The HOT button is also used to select the view options for the current display Page. Let's take a look-from the MAP page, click the HOT button to view the "Hot Menu", then use the DOWN or UP keys to select (highlight) an option (*Fig.* **33**):

• **Where Am I**: Press OK to see your current location on the map display. This function lines up the GPS position icon (small black circle) with the crosshair pointer icon.

• **Find / Go To**: Click OK or the RIGHT key to find or go to any of the listed items (note that you can only select from previously stored items, not create a new one, when using the Find/GoTo feature). After selecting your destination and pressing OK, the title of the destination will show in a yellow box at the top of the screen, and the bearing arrow will point in the correct direction to take you to it. To stop this navigation activity, press the HOT button again-you will see the option to stop. Press OK to confirm you want to stop navigating, and you will be returned back to the MAP page screen, but without the bearing arrow pointing the way to a specific destination. The bearing arrow effectively becomes a "heading arrow" once you stop navigating.

The available Find/GoTo items you can choose for navigation or viewing are (*Fig.* **34**):

    1) Nearest Waypoints-a short list of close by waypoints

    2) All Waypoints-pick from list of all stored waypoints (shown in order beginning with the closest)

    3) POI (Point of Interest)-gas stations, hospitals, airports, etc.

    4) Places-built into the base map-city names, etc.

    5) My Trails-pick from list of saved Trails (see next section). The ONIX will start pointing you to the closest point on that trail. A trail is a previously walked path, for example a trail that you took back to your campsite that wound around trees and past the edge of a pond.

    6) My Routes-pick from your list of saved routes (point to point navigation)

7) My Map Areas-pick from list of your previously created custom map areas

8) My Photos (or Topos)-after you pick a photo or topo from the list (arrow down to it) and press OK to confirm you wish to navigate towards that area, the ONIX will begin to point you towards that area. (Note that you must have selected photos or topos as a screen layer in your MAP options as described earlier on page 9 if you want to see it while navigating.) Alternatively, instead of pressing OK, you can press the RIGHT key from the name on the list and go to the "eyeball" icon, then press OK to just view the photo or topo without starting navigation. To exit this "view only" mode, press OK again to return to the list.

9) Location-a latitude and longitude coordinate

• **Map Details** (or Compass Options) (Name varies with current display Page): When you are on the MAP Page, this will say "Map Details". You can decide whether you wish to view details such as the compass, points of interest, range rings, etc. superimposed onto the base map by toggling them on/off in the Map Detail list. On the NAV Page, it will say "Compass Options" (see details in the NAV Page section)

• **Info Boxes:** an alternate way (instead of holding MENU down) to pop up the Info Boxes for editing. See "Setting Up and Using the Info Boxes" for more details.

• **Draw Ruler:** a tool to quickly find the distance between multiple points on the map. After selecting "Draw Ruler" from the MAP Page HOT menu *(Fig. 33)*, either press OK and move the cursor to any point on the map, or press the RIGHT key and chose an existing location from the To/From list *(Fig. 35)*. Once a location has been selected, press OK and choose "Measure To" *(Fig. 36)*. This will create a fence post at that location. The info boxes will show the distance from your current location to that point (fence post) *(Fig. 37)*. To measure the distance between any two points, use the same process, except that after a selection has been made, press "Measure From", then repeat the process to select a second point to "Measure To". To add more points, select an additional location from the map or the list and choose "Add Fence Post". If you continue to set additional points, you will see more options appear in the Measuring menu *(Fig. 38)*. You can clear all ruler guides and start over, or select "Close Region" to turn three or more points into a Map Area and measure its area in square yards or miles. The regions created by your rulers can be saved as Routes or Map Areas. Open regions are saved as routes and closed regions are saved as Map Areas. They will be stored in My Routes and My Map Areas. A "Measuring Info Box" is automatically displayed when drawing rulers, displaying relevant data: Distance to Cursor, Total Length, Last Segment Length and Total Area.

• **SafeTrack:** select and press OK to enter SafeTrack mode, or to see the SafeTrack options. See "SafeTrack™ Battery Conservation Mode" on the next page for more details.
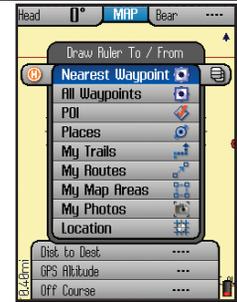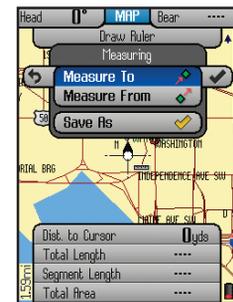

Fig 35. Draw Ruler-To/From List
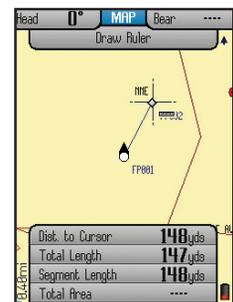

Fig 36. Measuring Menu-basic options

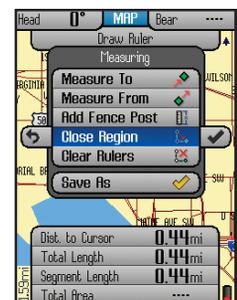**Fig 37.** Draw Ruler-Info Box Data

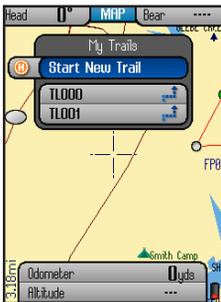**Fig 38.** Measuring Menu-more options

21

Fig 39. **My Stuff** Menu

Fig 40. **My Trails** Options

Fig 41. **My Trails-**
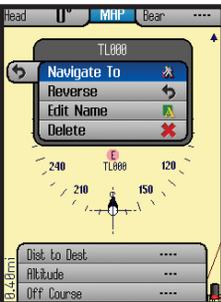Options after **Select**ing a
saved **Trail**

Fig 42. **My Trails-**
End & Save Trail

The My Stuff Menu

From the Hot Menu, press "+" or "-" to see the "My Stuff" menu *(Fig. 39)*. This menu lets you work with your personal waypoints, trails, map areas, etc that you have already created. The "My Stuff" menu items are:

• **My Waypoints**: Press OK to see a list of all the waypoints you have marked. Select one and press OK to edit, delete or navigate to the waypoint. Or, press the Right key to view the waypoint on the base map (cursor moves to the waypoint)

• **My Trails**: A trail is a path or course that been started (by moving) or previously completed and saved by the user. Press OK or the RIGHT key. The options here are *(Fig. 40*:

   Start New Trail: select this to begin a new trail, for example, from a parking lot or other landmark to your camp.

   Trail List-your previous trails (if any) are listed below "Start New Trail". Highlight a trail name and press OK to see these 4 options (*Fig. 41*):

      Navigate To: navigate a saved trail. This starts navigation through a previously completed trail.

      Reverse-press OK to navigate the selected trail from its endpoint to its start (very useful to "go back" to a point of origin)

      Edit Name: option to rename a previously saved trail. Especially useful if you saved a trail with the "default" name.

      Delete: deletes a previously saved trail from memory.

   End & Save Trail (*Fig. 42*) (*only available after a New Trail has been started*): select this when you reach the end of a new trail, saving it in memory for later recall. You will have the option of naming the trail so it is easy to find in your "My Trails" list. ***Note: this option will only be seen if you are already actively navigating a trail you started.***

• **My Routes** (same 5 options as listed above for "My Trails")-a Route is the most direct or shortest path between two points. "Routes" are more often used for water based navigation (due to the reduced number of natural obstacles), whereas "trails" are more useful on land.

• **My Map Areas** - options here to navigate towards a previously created map area, and to manage them**.**

• **My Photos** -you have the options here to navigate towards a stored satellite photo or topo map, and to manage them (photos & maps are downloaded, not user created).

SafeTrack™ Battery Conservation Mode

SafeTrack is a Bushnell exclusive feature that extends and conserves battery power, without the wait to re-establish GPS satellite contact after a full power down. When you are in SafeTrack mode, the display screen will shut off, and the status LED will blink green. Intermittent satellite contact is maintained, so you will quickly be able to check your current location or progress. To enter SafeTrack mode, press and hold the HOT button, or select SafeTrack from the Hot Menu.

You will see the SafeTrack screen (*Fig. 43*), with a count down delay (time can be adjusted in the Set Page Menu) before the unit enters SafeTrack mode. If you accidentally hold the HOT button down, select "Cancel" and press OK. If you do not cancel, at the end of the countdown, the unit will be in SafeTrack mode. The display will black out. The ONIX will automatically make GPS satellite contact every 5 minutes (default, can be changed in SafeTrack Options menu), which extends battery life significantly while still allowing you to instantly get a fix on your location and resume navigation when you exit SafeTrack mode.

As long as you are actively using the GPS and pressing buttons (within time limit set in SafeTrack options (*Fig. 44*), the screen display will stay active-but the unit is still in SafeTrack mode.

After a period of inactivity (length of time selectable in SafeTrack options menu), the Start SafeTrack screen (*Fig. 43*) will appear.

If you do not want to return to SafeTrack, press OK or LEFT with "Cancel" selected.

How to Create/Edit Names for Waypoints, Trails, Map Areas, etc. *(Using the Type Tool)*

With "Edit Name" selected, click OK to bring up the Type Tool, a "virtual keyboard" (*Fig. 45*). This is a multi-function tool that is controlled by the 5-way button. Your currently selected character is highlighted. Move LEFT/RIGHT or UP/DOWN to select letters, then press OK to enter your selected character-you'll see it appear in the name near the top of the display. Use the LEFT/RIGHT keys to move around in a row (it "wraps around" when you go past the 1st or last character in a row), and use UP/DOWN to move through the columns. The Text Tool automatically switches to lower case after starting a word with upper case, but you may use "SHIFT"(select, press OK) to change it anytime. Use "back" to backspace if you make a mistake, or to delete the default "WPT 000" assigned to a new waypoint before starting to "type" your preferred name for it. To switch from letter characters to numbers or symbols, press the "+" or "-" buttons (you will see the tabs at the top of the Text Tool change). Once you are finished creating or editing the name for your waypoint, trail, etc, be sure to select "done" and press OK to actually confirm and enter the name in the memory of the ONIX350.

How to Set or Edit Icons

With "Edit Icon" selected, click OK and the display will show a menu of icons (*Fig. 46*), or common symbols, that you may choose to represent your waypoint on the map. If you have previously set up a user profile for a particular type of activity (for example, camping), the group of icons that appears in the icon selection menu will be the ones most relevant to that activity. Simply use the LEFT/RIGHT and UP/DOWN keys to move around the available icons, press OK to select one (you will see it appear next to the name at the top of the display), then select "done" and press OK again to confirm and enter the icon, so it appears on the map along with the name.
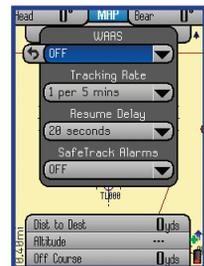

Fig 43. SafeTrack Screen

Fig 44. SafeTrack Options (select "Options" from SafeTrack Screen)

Fig 45. Type Tool-Editing a Waypoint Name

Fig 46. Waypoint "Edit Icon"

23

Downloading, Uploading and Storing Satellite (Aerial) Photos and Topo Maps

Now that you are familiar with your Bushnell ONIX series GPS, you are ready to take advantage of many of the easy to use exclusive Bushnell features. In conjunction with your Bushnell GPS unit, you have two additional tools that make your ONIX the most functional GPS for your next outdoor excursion– BushnellGPS.com and the ONIX CD with the GPS PC Companion program.

The BushnellGPS.com Website

Bushnellgps.com provides access to Satellite Imagery and Topographic Map downloads so that you can create detailed maps of your specific area of interest. BushnellGPS.com (or through Bushnell.com) enables you to plan your next adventure by searching and viewing Satellite Imagery and Topographic maps. Here's how to get started:

- Log onto www.bushnellgps.com
- Click on "Download Images and Register your GPS". Register your GPS unit.
- As a first time user, set up a Login Account and Password
- Connect your ONIX GPS to your computer via the included USB cable
- Once your account is established, you can start browsing the website. The Help file on the "My Map" webpage provides step by step details explaining how to search for, purchase, and download your maps, including Satellite Images and Topographic maps.
- BushnellGPS.com saves your images in your folders on our safe and secure server so that you can access them at any time.
- After you complete an outdoor excursion, BushnellGPS.com also enables you to upload all of your trip's navigation information into your account folders to review, and analyze, and save for the next return trip.
- BushnellGPS.com also provides detailed GPS product features and specifications, Software Update Downloads, Troubleshooting and Frequently Asked Questions, and the Bushnell Shopping Cart to purchase accessories, Photo/Map downloads, and printable Photos/Maps.

So log on, log in, and start downloading to experience a whole new world of GPS functionality.

The Bushnell GPS ONIX CD-ROM

Your CD contains software to help you get the most out of the ONIX GPS:

1. The ONIX GPS PC Companion program – Click the link to download and install the latest version of "GPS PC Companion" onto your PC. The PC Companion enables you to plan and save your GPS trips on your PC. Similar to the website, you can upload and save waypoints, trails, routes, photos and maps between your GPS and PC, so you can trip plan even when you are not connected to the internet and BushnellGPS.com. Take your PC along on your next adventure and the GPS PC Companion provides the perfect tool for storing and analyzing all of your GPS information.

2. A pdf copy of this QuickStart Guide.

Visit www.BushnellGPS.com for a detailed GPS glossary, frequently asked questions (FAQ), and other useful information related to the ONIX series GPS receivers.

TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
No Power On	1. Battery charge is low 2. Power button was not pressed for 1-2 sec.	1. Be sure battery has been fully charged before use. Avoid excessive use of the backlight, which may shorten battery life. 2. Press power button until LCD comes on
Unit does not detect GPS satellites	1. GPS reception is turned off in SET page 2. Insufficient time allowed for satellite acquisition 3. Unit does not have unobstructed view of the sky	1. Make sure GPS is turned ON in the SET Page. The center circle of the SAT page should be circling. If not, turn GPS ON in the SET page. 2. After the unit has been off for an extended time it may take longer for it to acquire GPS satellites. Check the SAT page for progress. 3. For fastest acquisition times make sure the unit has a clear view of the sky. Avoid areas of heavy brush and areas next to large buildings or cliffs. Keep unit out of backpacks and concealed areas in order to maintain consistent GPS signals. Try holding the unit further away from your body.
Unit "freezes" or "locks up"- unable to turn off normally	1. Processing malfunction or similar cause	1. If holding the power button for 2 sec. has no effect, reset the unit by removing the battery pack (and power cord if attached), then reattach it. Check website for latest software update (your software version # is found in the "Unit Info" on SET page).
Downloaded photos or maps are not found or cannot be used	1. USB cable was disconnected or power was shut off before download was completed 2. Unit was used immediately after download without restarting (power off then on again)	1. When downloading information from the PC program or Web, please wait until the download has been completed. Disconnecting the unit prior to completion of download will result in incomplete data download and loss of data. 2. After a download, the unit must be powered off and then powered back on for it to recognize the data.

Check out http://www.bushnellgps.com for the latest version of the GPS PC Companion. You can download the newest versions right from the website to any PC. Just click the "Product Support" tab at the top of the main page, then "Software Updates" in the left frame.

Component	PC System Requirements (to use the "PC Companion" software with Bushnell ONIX GPS products)
CPU	500 megahertz (MHz), Pentium III processor or higher
Memory	64 megabyte (MB) RAM or higher
Hard Disk	20MB (a portion of this disk space will be freed after installation if the original download package is removed from the hard drive.)
Drive	CD-ROM or DVD drive
Display	1024x768 or higher resolution monitor
Operating System	Microsoft Windows ME, Windows 2000, XP with Service Pack (SP) 2, Windows Server 2003 with SP1, or later operating system including Vista2
Other	One Free USB Port, Internet connection 56Kb or better, DSL recommended, Internet browser- Microsoft Explorer 5.2 or later

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The ONIX does not contain any user-serviceable parts. Repairs should only be made by an Authorized Bushnell repair center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and will void your warranty and your authority to operate this device under Part 15 regulations.

The shielded interface cable which is provided must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Note: The ONIX complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE. These limits are designed to provide reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

Specifications and designs are subject to change without
any notice or obligation on the part of the manufacturer.

ONE YEAR LIMITED WARRANTY

Your Bushnell‚ GPS receiver is warranted to be free of defects in materials and workmanship for one year after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product with return postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

  1)   A check/money order in the amount of $10.00 to cover the cost of return postage and handling
  2)   Name and address for product return
  3)   An explanation of the defect
  4)   Proof of Date Purchased
  5)   Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, with return postage ($10.00) to the address listed below:

IN U.S.A. Send To:
Bushnell Outdoor Products
Attn.: Repairs
8500 Marshall Drive
Lenexa, Kansas 66214

IN CANADA Send To:
Bushnell Outdoor Products
Attn.: Repairs
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information. In Europe you may also contact Bushnell at:

Bushnell Germany GmbH
European Service Center
Mathias-Brüggen-Str. 80
GERMANY
D- 50827 Köln
Tel: +49 221 995568-0
Fax: +49 221 995568-20

This warranty gives you specific legal rights.
You may have other rights which vary from country to country.
©2008 Bushnell Outdoor Products

IN NO EVENT SHALL BUSHNELL BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT.
Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

Bushnell®

Customer Service: (800) 423-3537
www.bushnell.com
©2008 Bushnell Outdoor Products

Bushnell ®
OUTDOOR
TECHNOLOGY

INNOVATION THAT THRIVES OUTSIDE

For further questions or additional information please contact:

Bushnell Outdoor Products
9200 Cody, Overland Park, Kansas 66214
Customer Service (800) 423-3537 • www.bushnell.com