



WorldNav 3500

Hardware User Guide



3500 Hardware User Guide

© 2010 TeleType GPS

All rights reserved. No parts of this work may be reproduced in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems - without the written permission of the publisher.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

Table of Contents

Part I Getting Started	6
1 Disclaimer.....	6
2 Accessories.....	8
3 Hardware Features.....	9
4 Specifications.....	12
Part II Basic Operation	16
Part III Main Menu	20
1 GPS.....	21
2 Bluetooth.....	21
3 Music.....	23
4 Video.....	24
5 Photo.....	25
6 Ebook.....	26
7 GPS Info.....	27
8 Setting.....	28
Part IV Troubleshooting	30

1 Getting Started

1.1 Disclaimer

Use the WorldNav at your own risk. To reduce the risk of unsafe operation, please carefully review and understand this user manual.

It is the user's responsibility to use this product prudently. This product is intended to be used only as a navigational aid and must not be used for any purpose requiring precise measurement of direction, distance, location, or topography. Statistics provided such as trip time are best estimates and may not accurately reflect true conditions.

The Global Positioning System (GPS) is operated by the United States Government, 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.



Part

For use in vehicles, it is the sole responsibility of the operator of the TeleType GPS WorldNav to place and secure the GPS unit so that it will not interfere with the vehicle operating controls and safety devices, obstruct the driver's view of driving conditions, or cause damage or personal injury in the event of an accident. Do not mount the TeleType GPS WorldNav in a place where the driver or passengers are likely to impact it in an accident or collision. The mounting hardware supplied by TeleType Co. is not warranted against collision damage or the consequences thereof.

It is the sole responsibility of the driver of the vehicle to operate the vehicle in a safe manner, to maintain full surveillance of all driving conditions at all times, and not become distracted by the GPS system to the exclusion of safe driving practices. It is unsafe to operate the controls of the GPS system while you are driving. Failure by the driver of a vehicle equipped with a TeleType GPS system to pay full attention to operation of the vehicle and road conditions while the vehicle is in motion could result in an accident or collision with property damage and personal injury.

IN NO EVENT SHALL TELETYPE CO 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.

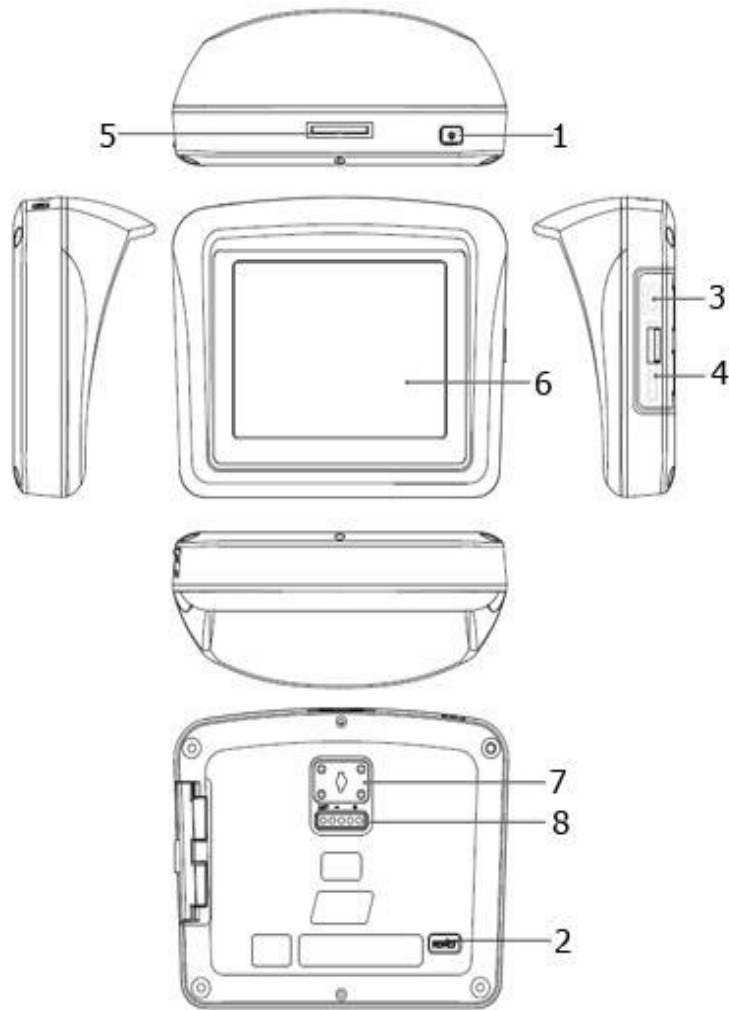
1.2 Accessories

Before using the GPS, make sure you have all of the accessories listed below. If any of the accessories are damaged or missing, contact TeleType.

- 1.** Bluetooth Earpiece with AC power
- 2.** Battery Power (12 v direct to battery power)
- 3.** USB Cord
- 4.** Handle Bar Mount
- 5.** Hardware User Guide
- 6.** WorldNav Software Guide
- 7.** Quick Installation Guide

1.3 Hardware Features

GPS

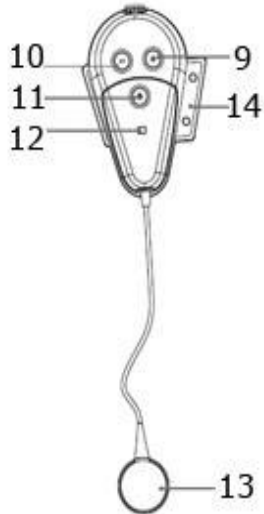


See following page for corresponding descriptions

See previous page for corresponding illustrations

GPS Device		
1	Power Button	Powers device on/off and into Standby Mode (Sleep)
2	Reset	Restarts the system
3	Mini USB Port	1. Communicate with PC using USB Cable 2. Charge the GPS device by connecting AC adaptor or Moto GPS adapter
4	SD Card Slot	Memory card contains navigation software. DO NOT eject during use
5	Handlebar mount slot	Attaches to handle bar mount
6	Display Screen	LCD Touch Screen displays navigation
7	Handlebar mount slot	Clip handlebar mount to GPS using this slot
8	External Power Supply	Connect to an external power supply, such as a power adapter or motorcycle battery

Bluetooth Earpiece



Earpiece		
9	Volume increase	Increases volume on Bluetooth earpiece
10	Volume decrease	Decreases volume on Bluetooth earpiece
11	Bluetooth Power Button	Powers Bluetooth earpiece on/off
12	Indicator Light	While charging solid Red light means earpiece is charging & Solid Green light means fully charged; While powered on, Flashing Green light means power is on but Bluetooth is not connected, Solid Green means Bluetooth is connect & Flashing Red light means power is low
13	Speaker	Speak into using Bluetooth setting
14	Bluetooth clip	Bluetooth earpiece will be installed on the helmets.

1.4 Specifications

Dimensions: 112 x 91 x 47mm / 4.5"x 3.5" x 2"	
Net Weight: 366 grams / 13 ounces	
System:	
OS:	Windows CE6.0
Processor:	ARM11 application processor @ 500MHz
SD RAM:	64MB
External Memory:	MAX 32G SD/MMC
Media function:	
Video:	ASF, AVI, MP4, 3GP, WMV etc
Audio:	MP3, WMA, WAV
Photo:	JPEG, BMP, PNG
E-book:	TXT
Power:	
AC Charger:	INPUT:AC 100-240V,OUTPUT:DC 5V /2A
Cradle Charger:	20-40 minutes depending upon screen brightness
Built-in Battery:	3.7V /1000mAH
Navigation time:	2-3 hours with 50% volume and 50% backlight.
Power Saving:	Automatically standby mode, backlight shut off

Display:	
Specification:	3.5" TFT +3.5" LCD screen, 4-line-resistance touch screen
Resolution:	320 x 240 pixels (RGB)
Brightness:	Backlight adjustable
GPS Module:	
Frequency:	1575.42MHz
Port:	COM7
Baud rate:	38400
Channels:	64
Sensitivity:	-161dBm
Precision:	Position: < 10 meters / 32 ft
Start-up time:	Hot start: =3 sec, average Warm start: =38 sec, average Cold start: =45 sec, average
Refreshing rate:	1 Time/ Second
Bluetooth	
Bluetooth Embedded Module	Supports Bluetooth earpiece provided
Environment Temperature	
Working Temperature:	-10 to 55 degrees C / 14 to 131 degrees F
Storage Temperature:	-25 to 75 degrees C / -13 to 167 degrees F
System upgrade: Upgrade system via SD card	

USB transmission rate: USB 2.0 high speed		
Water proof Class: IP 5		
Certification: CE/FCC/ROHS		
Bluetooth Receiver Specifications		
Dimensions	89 x 63.5 x25mm / 3.05" x 2.5" x .98"	
Net Weight	53 grams / 1.9 oz	
Bluetooth	Built-in Bluetooth module	Supports Bluetooth receiver audio transmission using provided earpiece
Receiver Range	Less than 5 meters / 16 feet	
Power Output	8/ 0.5 W	
Power Supply	Battery	3.7V/330mAH
	AC Adapter	Input: AC-100-240V 50/60 HZ, Output: DC 5V/1A
	Operation Time	3-4 Hours (depending on volume)
Environment Temperature	Working Temperature	-10 to 55 degrees C / 14 to 131 degrees F
	Storage Temperature	-25 to 75 degrees C / -13 to 167 degrees F

2 Basic Operation

Turning on and off

Turn your GPS on by pressing the Power button for at least two seconds. Power off by pressing the Power button then selecting Power Off. To enter Sleep Mode, press the Power button and select Sleep Mode.

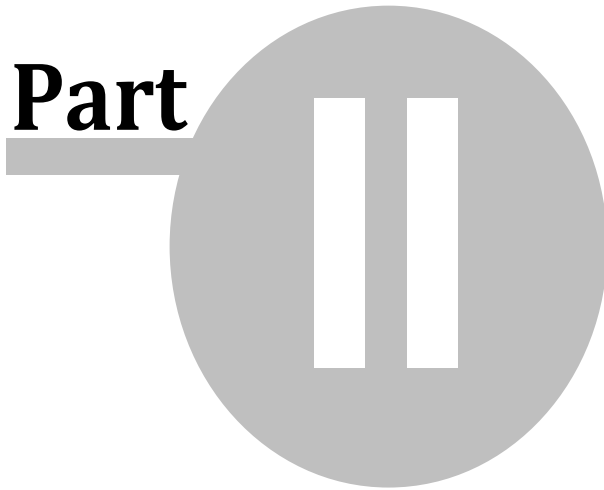
Hardware Reset

Occasionally, you may need to perform a hardware reset when your GPS stops responding or appears to be "frozen" or "locked up". You can perform a hardware reset by pressing the RESET button located on the back of the device.

Power Supply

In addition to a built-in lithium battery, you may power the GPS by connecting directly to your motorcycle's battery (hardwire) or through a DC power (cigarette lighter) converter.

Part



Handlebar Mount

Attach your GPS securely to the handlebar of your motorcycle or moped, making sure not to block your line of sight. (Note: GPS is compatible with RAM™ window mount)

Memory Card

This device supports secure digital (SD) cards up to 32 GB. Be sure the card is securely inserted before use and quit any applications in use before ejecting.

Touch Screen

Your GPS features an LCD touch screen, allowing you to move the screen using your finger (glove friendly). Press the desired icon or location on the map to move the screen.

Bluetooth

To hear the voice instructions (or listen to music) your GPS will use the Bluetooth earpiece provided for sound. The Bluetooth earpiece will be installed in your helmet.

3 Main Menu

Part



Main Menu Page


- **GPS** - Provides navigation function
- **Bluetooth** - use the Bluetooth earpiece provided to hear navigation instructions or listen to music
- **Music** - Listen to music files
- **Video** - View videos
- **Photo** - View photos
- **Ebook** - Read E-books
- **GPS Info** - Check your GPS signal and current latitude/longitude
- **Setting** - access your device system functions, such as time zone, power and language

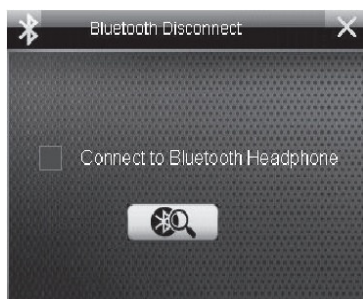
3.1 GPS

Please carefully read the WorldNav Software Guide (separate booklet) for navigation instructions.


3.2 Bluetooth

The Bluetooth setting allows you to pair your GPS with the Bluetooth earpiece provided. Be sure your Bluetooth earpiece is powered on (flashing green light) then click on the Bluetooth icon.

1. Click on the  icon to begin pairing your GPS with your earpiece.



Begin Bluetooth Pairing

2. Select the Bluetooth earpiece to be paired and then press the  icon to connect.




Select earpiece to be paired

3. After pairing, the indicator light on your earpiece will change from flashing green to solid green. On previous screen you will see the connection box checked, confirming that your Bluetooth earpiece is properly connected.




Connection confirmation

4. To stop connection between your Bluetooth earpiece and your GPS device, press the  button on the Pair Device page.

3.3 Music

Music Mode allows you to listen to music files on your GPS. The device supports music files in WMA, MP3 and WAV format.


1. Under the Audio/Music folder, select the  icon which will display your list of audio files.
2. Tap the file name to begin playing music.



Music Selection Page

3.4 Video

Video Viewer allows you to view movies you have uploaded onto your SD card. The device supports videos in AVI, ASF, MOV and MPG format.

1. Tap the  icon on the Main Menu then select the memory card and then the path where your movies are saved.
2. Tap the file name to view the movie.



Video Player Page

3.5 Photo

Photo Viewer allows you to view photos you have uploaded onto your SD card. The device supports photos in JPG, PNG, and BMP format.



1. Tap the  icon on the Main Menu then the memory card and then select the path where your photos are saved.
2. Tap the file name to display the photo.

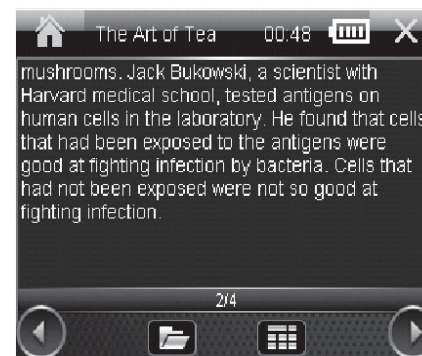


Photo Viewer Page

3.6 Ebook

Ebook Reader allows you to read E-books you have uploaded onto your SD card. The device supports E-books in TXT format.

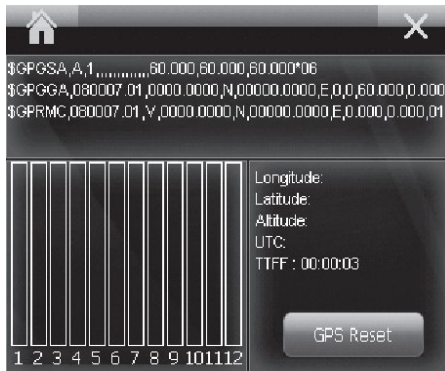
1. Tap the  icon on the Main Menu then the memory card and then select the path where your E-books are saved.
2. Tap the file name to begin reading.



Ebook Reader

3.7 GPS Info

You can check your GPS signal strength, current latitude/longitude and current satellite-time information. You can also select "GPS Reset" to clear your current satellite connection and reacquire a signal.



GPS Monitor Page

3.8 Setting



Setting Page

- **Time Zone Setting** - allows you to set your current time zone
- **Preferences** - allows you to set the system language, volume, as well as screen brightness and sleep timer
- **Clock** - set the current date and time
- **System** - view the system information for your device
- **Screen Calibration** - lets you adjust the screen calibration setting
- **USB Setting** - select between "charge" and "online" mode when the GPS is connected to a PC via the USB cord

Part

IV

4 Troubleshooting

Problem	Reason	Solution
GPS will not power on	Low Power	Charge the Battery
Powers off Suddenly	Low Power	Charge the Battery
Touch screen function is abnormal	Touch screen calibration is off	Use System tools to recalibrate the screen
No Sound	The volume level is at its lowest setting	Increase the volume using the WorldNav software or the hardware system settings*
	Poor connection between Bluetooth earpiece and device	Check the connection to the Bluetooth earpiece (must use earpiece provided)
Power Button is unresponsive and touch screen does not work	The system has crashed	Press the RESET button to restart the system

Bluetooth is not working	Bluetooth module is not supported	Use the Bluetooth earpiece provided
	Poor connection between Bluetooth earpiece and device	Check the connection to the Bluetooth earpiece (must use earpiece provided)
No GPS signal	Poor reception area such as inside a building, an urban area or a mountainous region	Use GPS Info to check number of satellites in view (minimum of four required for lock in)
Unable to use navigation function	Contact TeleType GPS Support Staff	

*Note: For maximum range of sound adjustment, keep the software setting at 100%. Use the volume buttons on the Bluetooth earpiece to control the volume. (If you lower the sound in the software, the volume buttons will have less control on volume.)