



Earthmate PN-60w with SPOT Satellite Communicator

Earthmate PN-60w GPS Details

Key Features:

- » 3.5 GB of internal flash memory
 - » Intuitive icon-based user interface for easy on-device navigation
 - » Elevation profile cutaway views that pinpoint the user's position
 - » GPX support for improved waypoint, track, and geocache file management
- › No finite limitations on the quantities of each that can be saved to internal memory
- › In addition, all can be saved to and retrieved from SD cards
- › Tracks can now hold 20,000 points (versus 10,000 with earlier PN-Series models); you can edit track settings to automatically save the active track and start another (upon hitting 20,000 points); overwrite the existing track points (oldest first); or stop track recording entirely
- › Waypoints/geocaches – save 1500 per file to internal memory, no maximum limit on the number of files
- » Latest DeLorme power management system with ambient light sensor for optimal battery life
 - » Holds 100 routes (compared to 50 with earlier PN-Series models)

Powerful GPS Performance Features» High-sensitivity 32-channel STMicroelectronics Cartesio chipset and DeLorme ConstantLock™ for quick satellite acquisition and reliable signal retention

- » DeLorme predictive GPS calculates satellite positions for near instantaneous acquisition
- » Dual-core processor for blazing-fast performance
- » 3-axis electronic compass performs with the PN-60w held in any position
- » Sensitive barometric altimeter for highly-accurate reliable altitude readings
- » 65K bright-color TFT screen for clarity in any light conditions
- » On-device road routing
- » SDHC support up to 32 GB
- » Support for paperless geocaching
- » WAAS-enabled accuracy (to within 3 meters)

Map and Imagery Details

The Most Comprehensive GPS Detail Available

On-device data layering lets you see your GPS location with the advantage of numerous map and imagery choices. Switch among them to gain a comprehensive view of where you are – it's revolutionary and provides a level of geographic detail unavailable on any other handheld GPS.

Layer all these map and imagery options on your PN-60w and always have the right detail for any activity, wherever you go in the world. PN-Series receivers also display market-leading Navionics® lake maps and marine charts (no set-up required, sold separately on SD cards).

Complete Detailed U.S. and Canada Topographic and Street Maps (included with all PN-Series GPS purchases)

- » Detailed vector-based maps created from the USGS topographic data and the latest DeLorme U.S. street and trail network
- » U.S. land cover including bodies of water, wetlands, forests, mountains, glaciers, grasslands, rock cover & more

Canada Topographic Map Sheets

- » Official Natural Resources Canada data
- » Topographic contour lines, bodies of water, roads and trails, also significant buildings, historic sites, and other manmade features in urban areas.
- » 1:50,000 scale
- » Coverage for most of Canada

High-Resolution Color Aerial Imagery

- » Best available resolution for many areas
- » Provides on-the-ground detail for areas outside Topo North America coverage

USGS 7.5-Minute Quad Maps

- » Authentic USGS 1:24,000 (7.5-min.) topo quads, scanned into a seamless database
- » See roads, trails, locations of buildings, natural landmarks, and an endless variety of physical features

NOAA Nautical Charts

- » The complete set of U.S. waterway charts available, including coastlines, Great Lakes, Alaska, Hawaii, many navigable rivers
- » See aids to navigation, water depths, water body names, hazards, and more .

PN-60w Technical Specifications

Physical

- » IPX7 waterproof standard,
- » Impact-resistant rubberized housing (Mil STD 810F)
- » Device dimensions: 2.43" W x 5.25" H x 1.5" D
- » Weight: Without batteries: 5.35 ounces; with Li-Ion rechargeable battery: 6.7 oz; with alkaline AA batteries: 7.00 oz.

Performance

- » 32-channel STMicroelectronics Cartesio GPS chipset for fast, reliable satellite acquisition
- » A dual-core processor for lightning quick map redraws, when panning or zooming
- » Fast USB 2.0 data transfer to internal memory or SD card in device
- » Proprietary Kalman filter for enhanced GPS accuracy
- » Detailed onboard base map with major streets and highways worldwide, plus U.S. secondary roads

Sensors

- » 3-axis electronic compass with included accelerometer performs when held in any position
- » Sensitive barometric altimeter for reliably accurate altitude readings

Power

- » Uses 2 AA batteries (included)
- » Optional Travel Power Kit with DeLorme-supplied rechargeable Li-Ion battery

Receiver

- » Super high-sensitivity 32-channel Cartesio chipset by STMicroelectronics for rapid signal acquisition
- » ConstantLock satellite retention, even in challenging GPS environments
- » Predictive GPS for near-instantaneous acquisition

Acquisition Times:

- » Hot Start: 5-6 seconds
- » Warm Start: < 45 seconds
- » Cold Start: < 60 seconds
- » Update rate: 1/second, continuous

GPS accuracy:

- » Position: < 15 meters, 95% typical*
- » Velocity: 0.05 meter/sec steady state

WAAS accuracy:

- » Position: < 3 meters, 95% typical*

* Subject to accuracy degradation to 100m 2DRMS under the United States Department of Defense-imposed Selective Availability Program.

Display

- » Sharp high-resolution 2.2" (220 x 176 pixels)
- » 65K-color Transflective TFT screen

Memory & Storage

- » 3.5 GB internal flash memory (500 MB user-available)
- » Supports SDHC high-capacity SD-cards - up to 32 GB
- » Tracks can now hold 20,000 points (versus 10,000 with earlier PN-Series models); you can edit track settings to automatically save the active track and start another (upon hitting 20,000 points); overwrite the existing track points (oldest first); or stop track recording entirely
- » No finite limitations on the quantities of each that can be saved to internal memory

SPOT Communicator Technical Specifications

Physical Specifications

Case: IPX-7, waterproof, impact resistant, and rugged

Size: 2.6" x 3" x 1.25"

Weight: 3.7 oz.

Battery Life and Usage

Use only AA Lithium batteries in your SPOT Communicator. Alkaline or other battery technologies, including rechargeable batteries, are not recommended. In an emergency situation, if you have access to alkaline or other battery technologies, the SPOT Communicator might work but will not offer the specified battery life or performance.

Power

SOS mode: Up to 7 days of messages

Type & Send mode: Up to 5 days of messages

Track Progress mode: Up to 10 days of messages

Standby mode: Up to 4 months

Operational and environmental conditions can decrease the battery life achieved under normal usage conditions. See findmespot.com for more details regarding battery life.

Operating Conditions and Specifications

The SPOT Communicator must have an unobstructed view of the sky, either outdoors or in a glass enclosed area, such as a vehicle dashboard or sunroof. Visit findmespot.com for more detailed information.

Coverage

SPOT works around the world, including virtually all of North America, Europe, Australia, and portions of South America, Africa, and Asia, as well as hundreds or thousands of miles off shore of these areas. It is important that you check coverage for your destination at findmespot.com before traveling.

Premium SMS Service

Additional charges may apply in some regions. Standard text messaging charges from your mobile phone provider may also apply. Visit findmespot.com for more information.

Troubleshooting

The SPOT Communicator performs a self-diagnostic test each time it is powered on. SPOT recommends that you send and verify a Check-in/ OK message before each trip. This also allows you to evaluate your entire messaging system—from the operational condition of the SPOT Communicator to the readiness of those on your contact list. See the FAQ section on findmespot.com for more information.

Topo North America 9.0 Minimum System Requirements

Operating Systems

- » Microsoft® Windows® 7 (all versions) with 1GB of RAM (2+ GB recommended)
- » Windows Vista® (all versions) with 512 MB RAM (1+ GB recommended)
- » Windows XP (Service Pack 2 or later) with 512 MB RAM (1+ GB recommended)
- » Microsoft Internet Explorer 7.0 or later

Hardware

- » 1.5 GHz or higher processor, Pentium 4, Athlon 64 or later
- » 2 GB of available hard-disk space (8 GB if all map data for North America is loaded to hard drive)
- » DVD-ROM Drive
- » 1024 x 768 screen resolution or higher

Macintosh®

- » Compatible with Intel-based Macintosh computers running Boot Camp® for Windows XP/Vista/7

For GPS Use

- » Compatible with any DeLorme Earthmate GPS receiver