

Oregon® 650



More Features, More Satellite Power Behind a Tough, Bright Touchscreen

- 3" sunlight-readable touchscreen display with dual orientation
- 8 MP autofocus camera with LED flash/torch
- Worldwide basemap with shaded relief
- 3-axis compass with accelerometer and barometric altimeter sensors
- Dual battery system — 2 AA batteries or included rechargeable internal NiMH pack



With high-sensitivity GPS and GLONASS satellite tracking, worldwide basemap with shaded relief and customizable buttons for 1-touch image capture and waypoint marking, Oregon 650 opens a new world of GPS mapping and positioning.



Quality Photos

Take quality photos with Oregon 650's built-in 8 MP autofocus digital camera. Each photo is geotagged, allowing you to navigate back to that exact spot. Share the photos with all your friends through [Garmin Adventures](#). For more storage, insert a microSD™ card; you can even view pictures from other devices on microSD card with Oregon's picture viewer.

Touch and Go

Oregon 650 has reflective display technology for the most brilliant, sunlight readable touchscreen we've ever made. It's as vivid in full bright sunlight as it is in shade. The screen has been strengthened for impact resistance but still accommodates gloved operation. And with dual-orientation, multi-touch screen, you won't just look at maps, you'll interact with them when you zoom in, pan out and rotate the display.

Double Your Power

Oregon 650 features our state-of-the-art dual battery system. You'll have the option of using the internally rechargeable NiMH pack (included) or traditional AA batteries — NiMH pack charges when the device is connected to external power.



Get Your Bearings

Oregon 650 has a built-in 3-axis electronic compass with accelerometer tilt compensation to show where you're heading even when standing still, or not holding it level. Its barometric altimeter tracks changes in pressure to pinpoint your precise altitude. You can even use it to plot barometric pressure over time to keep an eye on changing weather conditions.

With its high-sensitivity, WAAS- and GLONASS-enabled GPS receiver and HotFix® satellite prediction, Oregon 650 locates your position quickly and precisely, and maintains its GPS location even in heavy cover and deep canyons.

Share Wirelessly

With Oregon 650 you can share your waypoints, tracks, routes and geocaches up to 50 times faster with other wireless compatible Garmin handheld devices. Plus, you can share large files too like photos, Garmin Adventures and Custom Maps. Just touch "send" to transfer your information.

Add Maps

Adding more maps to Oregon is easy. Load TOPO U.S. 24K maps and hit the trail; add Trailhead Series TOPO maps and explore famous treks like the Appalachian Trail and the Pacific Crest Trail; plug in BlueChart® g2 preloaded cards for a great day on the water; or load City Navigator® map data for turn-by-turn routing on roads. Add satellite images to your maps with BirdsEye Satellite Imagery (subscription required).

Load All the Geocaches

No more picking, choosing and planning, just download them all. The Oregon 650 can hold up to 4 million. Download every cache on OpenCaching.com. Load caches from GSAK. Or use your favorite program or website supporting GGZ files. All your paperless geocaching features will be there for every cache. Read full descriptions, hints and logs. View cache photos. Filter caches by size, terrain, difficulty and type. Connect to chirp-enabled caches. Record your logs in the field. Do it all.

Plan Your Next Trip

Take charge of your next adventure with [BaseCamp™](#), software that lets you view and organize maps, waypoints, routes and tracks. This free trip-planning software even allows you to create Garmin Adventures that you can share with friends, family or fellow explorers. BaseCamp displays topographic map data in 2-D or 3-D on your computer screen, including contour lines and elevation profiles. It also can transfer an unlimited amount of satellite images to your device when paired with a BirdsEye Satellite Imagery subscription.

Physical & Performance:

Unit dimensions, WxHxD	2.4" x 4.5" x 1.3" (6.1 x 11.4 x 3.3 cm)
Display size, WxH	1.5"W x 2.5"H (3.8 x 6.3 cm); 3" diag (7.6 cm)
Display resolution, WxH	240 x 400 pixels
Display type	transflective color TFT touchscreen
Weight	7.4 oz (209.8 g) with batteries
Battery	rechargeable NiMH pack (included) or 2 AA batteries (not included); NiMH or Lithium recommended
Battery life	16 hours
Waterproof	Yes (IPX7)
Floats	No
High-sensitivity receiver	Yes
Interface	high-speed USB and NMEA 0183 compatible

Maps & Memory:

Basemap	Yes
Preloaded maps	no
Ability to add maps	Yes
Built-in memory	3.5 GB
Accepts data cards	microSD™ card (not included)
Waypoints/favorites/locations	4000
Routes	200
Track log	10,000 points, 200 saved tracks

Features & Benefits:

Automatic routing (turn by turn routing on roads)	Yes (with optional mapping for detailed roads)
Electronic compass	Yes (tilt-compensated 3-axis)
Touchscreen	Yes
Barometric altimeter	Yes
Camera	yes (8 megapixel with autofocus; digital zoom)
Geocaching-friendly	Yes (Paperless)
Custom maps compatible	Yes
Photo navigation (navigate to geotagged photos)	Yes
Hunt/fish calendar	Yes
Sun and moon information	Yes
Tide tables	productTemplate.tab.specs.picklist.yes_with_optional_bluechart
Area calculation	Yes
Custom POIs (ability to add additional points of interest)	Yes
Unit-to-unit transfer (shares data wirelessly with similar units)	Yes (plus images and custom maps)
Picture viewer	Yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data)	Yes