

GARMIN OREGON 650

More Features, More Satellite Power Behind our Toughest, Brightest Touchscreen GPS.

- 3" sunlight-readable touchscreen display with dual orientation
- 8 megapixel 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



The new rugged and waterproof GPS Oregon series – more features, more power and the most brilliant, sunlight readable touchscreen we've ever put on a Garmin handheld.

From the moment you cradle the 650 in your hand, you're ready to enter into a bold new world of Garmin outdoor navigation. With high-sensitivity GPS and GLONASS satellite tracking (more satellites mean faster fixes, even in challenging environments), preloaded worldwide basemap with shaded relief and a faster processor, you don't just look at maps, you intuitively interact with them. Zoom in, pan out and rotate using multi-touch in any conditions and even with most gloves. The reflective display technology boosts touchscreen brightness so much that maps and displays are as vivid in full bright sunlight as they are in shade.

Touch and Go

Oregon 650 was purposely engineered for the outdoors. It features the most brilliant, sunlight readable touchscreen we've ever put on a Garmin handheld, strengthened for impact resistance but with multi-touch and dual orientation views that still accommodate gloved operation. Bumps, dust, dirt, humidity and water are no match for this mapping-oriented navigator.



Get Your Bearings

Oregon 650 has a built-in 3-axis electronic compass with accelerometer tilt compensation, which shows where you're heading even when you're standing still, and not holding it level. Its barometric altimeter tracks changes in pressure to pinpoint your precise altitude, and you even



can use it to plot barometric pressure over time, which can help you keep an eye on changing weather conditions. And with its high-sensitivity, WAAS/EGNOS and GLONASS-enabled GPS receiver and HotFix® satellite prediction, Oregon 650 locates your position quicker and more precisely and maintains its GPS location even in heavy cover and steep sided valleys.

Double Your Power

Besides its outstanding performance of up to 16 hrs of battery time the new Oregon 650 features our outdoor optimised dual battery system. You'll have the option of using the internally rechargeable NiMH pack (not included) or traditional AA batteries in case there is no opportunity for charging — The NiMH pack charges automatically whenever the device is connected to external power.



Quality Photos

Now you don't have to take an additional camera with you to take quality photos. Oregon 650's built in 8 megapixel autofocus digital camera takes photos worthy of sharing. And each picture is right away geotagged with the location of where it was taken, allowing you to navigate back to that exact spot in the future. Then share the photos from your Oregon 650 via USB with all your friends through [Garmin Adventures](#), the new online adventure sharing community. For more storage, insert a microSD™ card; you can even view pictures from other devices with Oregon's picture viewer.

Share Wirelessly

Now you can wirelessly transfer large files such as photos, geocaches, routes and Custom Maps between Oregon 600-series devices. Plus, new technology allows your routes, waypoints and tracks to transfer up to 50 times faster. Sync your data such as waypoints, geocaches, tracks and images to the Garmin Cloud, and access from anywhere via your smartphone and BaseCamp mobile app. Oregon is also ANT+ wireless compatible with heart rate, chirp and tempe sensors.

Add Maps

Adding more maps to Oregon is easy. Load our [Garmin Eire Discoverer™](#) maps or choose one of our [Birdseye™ Select](#) 1:25k raster maps and hit the 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 (see maps tab for compatible maps). Add satellite images to your maps with [Birdseye™ Satellite Imagery](#) (subscription required).



You can even display and enter grid references in Irish Grid (IG) or in the new Irish Transverse Mercator (ITM) grid.

Load All the Geocaches

No more picking, choosing and planning, just download them all. The Oregon 650 can hold a massive number of geocaches. Not just one thousand, not just one million. Four million. Download every cache on [OpenCaching.com](#). Load caches from GSAK. Or use your favourite 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. The Oregon 650 has no limit.

Plan Your Next Trip

Make the most out of your adventures with [BaseCamp™](#), Garmin's free trip planning software. BaseCamp is the perfect environment to comfortably prepare your trips with maps, waypoints, tracks and routes before you get out and once you are home again to create amazing Garmin Adventures to share with friends, family or fellow explorers. The software displays topographic map data in 2-D or 3-D on your computer screen, including contour lines and elevation profiles.

Relive Your Journeys

The [BaseCamp mobile](#) Mobile app lets you supplement the Oregon 600 series handheld with the power of your smartphone*. Easily manage and share the waypoints, routes and tracks you've logged on your trail-hardened device. Simply sync the Oregon with your smartphone* to



download your data using Bluetooth 4.0 wireless technology. You can upload this trip data to your Garmin Cloud account; the private online storage data centre and access from anywhere. This data can later be used to create your very own Garmin Adventure which allows you to brag to your buddies about your travels or let fellow explorers follow in your footsteps.

Create and Share Adventures

Garmin Adventures provides a free, interactive way to share your hikes, bike rides, road trips and more. Using BaseCamp, you can combine track logs, waypoints, geotagged photos, YouTube® videos and more into an adventure that gets published online. You can then email a link to your adventure to friends and family, share it on social media sites or even post it in your favourite forums. BaseCamp even makes it easy to follow in the footsteps of other travellers by allowing you to search for and download adventures.

*iphone 4s or newer

FEATURES

Display Brightness

Reflective display technology uses external light, like sunlight, in combination with the unit's LED backlight to increase brightness and view-ability. Plus, you conserve power by not having to turn the backlight up.

Wireless Capable: Bluetooth® and ANT

Now you can wirelessly transfer large files like photos, geocaches, adventures, routes and Custom Maps between Oregon 600-series units (or with Garmin Basecamp™ Mobile). Plus, new technology allows your routes, waypoints and tracks to transfer up to 50 times faster. Oregon is also ANT+ wireless compatible for heart rate, cadence, chirp™ and tempe™ sensors.

Dual Orientation

View maps and data vertically or landscape depending on how the unit is oriented. Landscape view also helps improve typing and your on-road navigation experience.

Flashlight

Torch has multiple brightness levels and strobe options – High and Low – to conserve battery power.

Shortcuts

Launch apps, switch Profiles, apply settings and start navigating with 1 touch

Dashboards/nüvi Mode

Dashboards let you hide and show more functions to your favorite app. With this at-a-glance information, you can multi-task without having to disable the app.



Advanced Elevation Plot

The new Full Track view allows you to see the entire elevation plot and quickly move your zoomed view to any place on the plot. Future Plot uses your mapping data to show you what to expect ahead of you.

Improved Trip Computer

Get 33 percent more data on screen at once with new layout options. Add multiple pages of data fields, each customisable to 1 of 4 layouts: 2 large, 1 large and 4 small, 6 small or 8 small.

Activity Tracking (Calendar)

Track your accumulated activities, waypoints and geocaches; tracks on the day you do them.

Advanced Waypoint Management

All data is displayed and editable on 1 screen. Delete 1 or multiple waypoints at a time from the Waypoint Manager menu.

TECHNICAL SPECIFICATION:

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 and flash)



<u>Geocaching-friendly</u>	Yes (Paperless)
<u>Custom maps compatible</u>	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

In The Box:

- Oregon 650
- Worldwide basemap
- NiMH battery pack
- USB/charging cable
- AC adapter
- Carabiner clip
- Documentation