



With safety-enhancing color terrain mapping and alerting, Garmin takes portable aviation GPS to a whole new level.

GPSMAP® 296 specifications

Now, terrain awareness doesn't have to be so steep. Thanks to the affordable Garmin GPSMAP 296 color portable with built-in terrain mapping and alerting.

Detailed sectional chart-style shaded mapping and an extensive Jeppesen® database help you visualize your flight path in relation to nearby nav aids, terrain, SUAs, obstructions, etc. Plus, you can put the unit in "Terrain" mode for TAWS-like warnings and alerts when proximity conflicts loom ahead. Since nearly 40 percent of all aircraft accidents are a result of

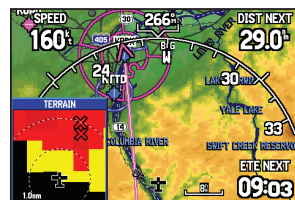
Controlled Flight Into Terrain (CFIT), the "look ahead" hazard alerting features of the GPSMAP 296 can provide that extra margin of safety you need to make timely terrain avoidance decisions and maneuvers.

For added versatility, optional MapSource® CD downloads and user-selectable formats let you transfer this portable GPS from plane to boat to automobile without missing a beat.

Airways, highways or waterways – Garmin's go-anywhere GPSMAP 296 is one world-class navigation value.



Sectional-style chart display



Pop-up Terrain Alert display



Panel display



Map screen (with HSI)

Navigation features

Waypoints:

Total: 3000 with 10 characters (name and symbol)
Nearest: Continuously updated; Airport, VOR, NDB, INT, user, ARTCC, FSS, airspace, Vx

Routes:

50 reversible routes with up to 300 points each, plus TracBack® modes, Automatic turn-by-turn along-road routes with voice navigation

Tracks:

10,000 point automatic track log; 15 saved tracks; 700 points per saved track; lets you retrace your path in both directions

Trip computer:

Trip odometer, stopped time, moving average, moving time, total average, total time, maximum speed, odometer

Alarms:

Airspace, arrival, off-course, proximity waypoint, clock

Tables:

Built-in celestial tables for best times to fish and hunt, sunrise and sunset, sun and moon by date and position

Map datums:

More than 100 user datum

Position format:

Lat/Lon, UTM/UPS, Maidenhead, MGRS, Loran TDs and other grids, including user grid

GPS performance

Receiver:

WAAS enabled, 12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position

Acquisition times:

Warm: Approximately 15 seconds
Cold: Approximately 45 seconds
AutoLocate™: Approximately 2 minutes

Update rate:

1/second, continuous

GPS accuracy:

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

DGPS (USCG) accuracy:

Position: 3-5 meters, 95% typical
Velocity: 0.05 meter/sec steady state

DGPS (WAAS) accuracy:

Position: < 3 meters, 95% typical
Velocity: 0.05 meter/sec steady state

Dynamics:

6 g's

Interfaces:

Two RS232 ports with NMEA 0183, RTCM 104 DGPS data format and proprietary Garmin USB interface

Antenna:

Removable quad-helix

Differential:

WAAS, marine beacon

Moving map features

Basemap:

Built-in routable basemap (North America and South America) contains state and country boundaries, lakes, rivers, streams, airports, cities, towns, coastlines, state and interstate highways, local thoroughfares and secondary roads within metro areas, federal interstate highway exit information for services such as food, lodging and truck, RV and automotive service stations

Database:

Built-in Jeppesen® database with terrain and obstacle data bases**. Includes worldwide airports and VOR's, plus Americas, or Atlantic International, or Pacific International NDB's, intersections, special use and controlled airspace, runway data, plus airport, FSS, and ARTCC frequencies

Approach waypoints: Jeppesen® data also includes final approach sequence waypoints for all published approaches

Uploadable maps: Accepts optional Garmin data cards for detailed maps

Power

Source: Rechargeable lithium battery

Battery life: 5-15 hours of use (depending on backlight settings)

Physical

Size: 5.7"W x 3.2"H x 1.9"D
(14.47 x 8.12 x 4.82 cm)

Weight: 13.3 ounces (377 g) with battery

Display: 3.8" diagonal (9.65 cm) 320 x 480 pixels, 256 color sunlight readable TFT with adjustable backlighting

Case: Fully gasketed, high impact plastic alloy, waterproof to IEC 60529 IPX7 standards***

Temperature range: 5°F to 158°F (-15°C to 70°C)

User data storage: Indefinite

Accessories

Standard:

Carrying case, Auto mount, USB interface cable, GA 26C with suction mount, Portable antenna, Free single Jeppesen® update, 12-volt adapter cable, Yoke mount, Owner's manual, Quick reference guide, Wall charger

Optional:

Automotive kit: Includes MapSource City Select® CD-ROM with full unlock included, 128 MB data card, 12-volt adapter cable with speaker, Friction mount, Automotive mount
MapSource CD-ROMs



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Specifications are preliminary and subject to change without notice.

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

** Obstacle data available only for U.S.A.

*** Up to 1 meter for 30 minutes.