



The GPS 500 from Garmin gives pilots big-picture situational awareness and a host of interface capabilities, all in a single box. Following the lead of the popular GNS 530 — minus the nav and comm features — the 500 is a WAAS-upgradable GPS and color moving map. Brilliant colors on a high-resolution, five-inch display make map and flight data easy to interpret.

Designed to interface with additional data systems, the GPS 500 can give pilots vital approach information and weather and traffic data in relation to their position. The GPS 500 includes Fault Detection and Exclusion (FDE) software, a requirement for Oceanic Approval. Coupled with the unit's large, color moving map display, this MFD-like capability puts pilot-critical information right where it's needed.

View your position in real time on a sectional-like basemap

with detailed Jeppesen® flight data. The built-in basemap shows cities, highways, railroads, rivers, lakes and coastlines. Different colors separate land, terminal areas, route and approach information so you can interpret data at a glance. This unit's huge Jeppesen database, which can be updated with front-loading data cards, contains all airports, VORs, NDBs, intersections, FSS, approach, SIDs/STARs and SUA information.

The GPS 500 is one smart box that's simple to operate. Thanks to intuitive software and logical page design and knob layout, this unit makes so much information so easy to use. Its user-configurable display simplifies access to massive amounts of pilot-specific data.

For the finest in situational awareness and a broad range of interface capabilities, look to the GPS 500.

GPS 500 specifications

Jeppesen database

Coverage: Americas, International or Worldwide
Airports: Identifier, city/state, country, facility name,

lat/long, elevation, fuel service, control,

approach information

VORs: Identifier, city/state, country, facility name,

lat/long, frequency, co-located DME/TACAN, magnetic variation, weather broadcast

NDBs: Identifier, city/state, country, facility name, lat/long, frequency, weather broadcast

Intersections: Identifier, country, lat/long, nearest VOR

Frequencies:

Approach, arrival, control area, departure, Class B, Class C, TMA, TRSA—with sector, altitude and text usage info; also, ASOS, ATIS, AWOS, center, clearance delivery, ground, pre-taxi, tower, unicom, localizer and ILS Designation, length, width, surface,

Runways:

lighting, pilot-controlled lighting freq. Identifier, reference VOR, freq., usage

ARTCC: Identifier, freq., usage
MSA: Minimum safe altitude

A: Minimum safe altitude along and in proximity to active flight plan



GPS 500 specifications

Non-precision and precision approaches Approaches: throughout the database coverage

SIDs/STARs: Contains all pilot-nav SIDs and STARs Airspaces: Class B and C with sectors, International

CTA and TMA with sectors; all special-use airspace, including MOA's, prohibited and restricted areas—with controlling agency and airport

GPS performance

Dynamics:

Interfaces:

PhaseTrac12,™ twelve parallel channel Receiver:

receiver, simultaneously tracks and uses

up to 12 satellites

12 seconds (warm), 45 seconds (cold) Acquisition time: Update rate: Once per second, continuous Position—15 meters (49 feet) RMS Accuracy: velocity—0.1 knot RMS steady state

Velocity (max)—999 knots Acceleration (max)—6 g

Pilot-defined course selection and waypoint Nav features:

hold, closest point of flight plan, departure and arrival frequencies, approach navigation using published approach procedures stored on NavData card, terminal navigation using

SIDs/STARs from NavData card

Planning features: True airspeed, density altitude, winds aloft, RAIM availability, sunrise/sunset times, trip

and fuel planning, vertical navigation (VNAV)

ARINC 429, aviation RS-232, CDI/HSI, RMI

(digital: clock/data); superflag out, altitude (serial: Icarus, Shadin-Rosetta, encoded Gillham/Greycode), fuel sensor, fuel/air data, BFG WX 500 StormScope,™ BFG SKY 497

SkyWatch™ and Ryan 9900B TCAD

Map datums:

Safety feautures

Emergency search: 9 nearest airports, VORs, NDBs, intersections, or user waypoints; 5 nearest FSS and

ARTCC frequencies

Alarms: Arrival timers; airspace alarms at 10 minutes,

2 nm and inside airspace

User customization

Waypoints: 1000 user-defined

Flight plans: 20 reversible; up to 31 waypoints each

Certifications

GPS: TSO C129a, Class A1

(en route, terminal and approach) Oceanic Approval, and Fault Detection

and Exclusion (FDE)



Physical specifications

Unit size: Width = 6.25"

Depth = 11.00" behind panel, with connectors

Unit weight: 6.8 pounds installed Color LCD Display: 11-33 VDC Power:

Data storage: Separate internal battery protects

stored data for up to five years

Environmental

-20°C to +55°C (operating range) Temperature: -20°C to +70°C (short-term operation)

95% non-condensing

Humidity: -1,500 ft to 50,000 ft Altitude range:

Components

Standard package: GPS 500 and NavData card

GPS antenna

Installation rack and connectors

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Specifications are subject to change without notice.