The GARMIN GNS 530 represents the single biggest idea in integrated avionics in years. Traditionally, it would take a host of components to provide the capabilities represented in this one sophisticated box. It is a WAAS upgradeable IFR GPS, com, VOR, LOC and glideslope with color moving map and MFD capabilities all rolled into one.

At the center of the system is GARMIN’s own PhaseTrac12™ GPS — twelve parallel channel receiver. A TSO’d VHF comm offers a choice of 25 kHz or 8.33 kHz spacing for 760 or 3040 channel configuration respectively. A 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 GNS 530 makes practical use of this information with features like intelligent frequency nominating.

The brilliant colors of the GNS 530’s 5” display make the pilot-critical information easy to read and interpret. Its especially true of the 530’s basemap. You enjoy enhanced situational awareness by seeing your position relative to cities, highways, railroads, rivers, lakes and coastlines. But even more importantly, the appropriate use of color separates land data, terminal areas, route and approach information for easy pilot scanning and reduced pilot workload. Simply put, the GNS 530 incorporates advanced procedure types usually found only in high-end FMS systems.

The GNS 530’s intuitive software and logical layout prove that this is a system built for pilots, by pilots. So much information. So easy to use. The GNS 530. It’ll change the way you look at avionics.
**Safety Features**

- **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, 2nm and inside airspace

**User Customization**

- **Waypoints:** 1000 user-defined
- **Flight Plans:** 20 reversible, up to 31 waypoints each

**VOR Performance**

- **Frequency Display:** Active and standby
- **Frequency Range:** 108.00 MHz to 117.95 MHz
- **VOR/LOC Composite:** 0.50Vrms/0.35Vrms
- **CDI Output:** ±150mV Full Scale
- **Centering Accuracy:** ±0.0°
- **Flag Sensitivity:** -103.5 dBm
- **DM E Channeling:** 2x5, BCO, Slip, Narco 890/891, King Serial
- **Audio Sensitivity:** -103.5 dBm for 6 dB S/N with 1 kHz 30% mod.
- **Audio Output:** 100 mW minimum into 500 ohm load; External amplifier required

**GS Performance**

- **Frequency Range:** 329.15 MHz to 335.00 MHz
- **CDI Output:** ±150mV Full Scale
- **Centering Accuracy:** 0 ddm ± 0.0091 ddm

**LOC Performance**

- **Frequency Range:** 108.10 MHz to 111.95 MHz
- **CDI Output:** ±150mV Full Scale
- **Centering Accuracy:** < 4.5mV
- **Flag Sensitivity:** -103.5 dBm
- **Audio Sensitivity:** -103.5 dBm for 6 dB S/N with 1 kHz 30% mod.
- **Audio Output:** 100 mW minimum into 500 ohm load; External amplifier required

**VHF COM Performance**

- **Frequency Display:** Active and standby
- **Channels:** 760 (25 kHz spacing); configuration for 2280 channels (8.33 kHz spacing) also provided
- **Frequency Range:** 118.000 MHz to 136.975 MHz
- **Transmit Power:** 10 watts minimum
- **Modulation:** 70% minimum
- **Receive Sensitivity:** 2.0 µV for 6 dB S/N with 1 kHz 30% mod.
- **Squelch Sensitivity:** 2.0 µV typical
- **Audio Output:** 100 mW minimum into a 500 ohm load; External amplifier required

**Certifications**

- **GPS:** TSO C129a, Class A1 (en route, terminal and approach)
- **VOR:** TSO C40c
- **LOC:** TSO C39e
- **GS:** TSO C34e
- **VHF COM:** Transmitter TSO C37d, Class 4 and 6
- **Receiver TSO C38d, Class C and E**

**Physical Specifications**

- **Unit Size:**
  - Unit Width = 6.25”
  - Unit Height = 4.60”
  - Depth = 11.00” behind panel, with connectors
- **Unit Weight:** 8.5 pounds installed
- **Display:** Color LCD
- **Power:** 27.5 VDC
- **Data Storage:** Separate internal battery protects stored data for up to five years

**Environmental**

- **Temperature:** -20°C to +55°C (operating range)
- **Humidity:** 95% non-condensing
- **Altitude Range:** -1,500 ft to 50,000 ft

**Components**

- **Standard Package:**
  - GNS 530 and NavData Card
  - GPS Antenna
  - Installation Rack and Connectors
  - Pilot’s Guide
  - Quick Reference Guide
  - Database Subscription Packet
- **Options:**
  - User Data Card

Specifications are preliminary and subject to change without notice.

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