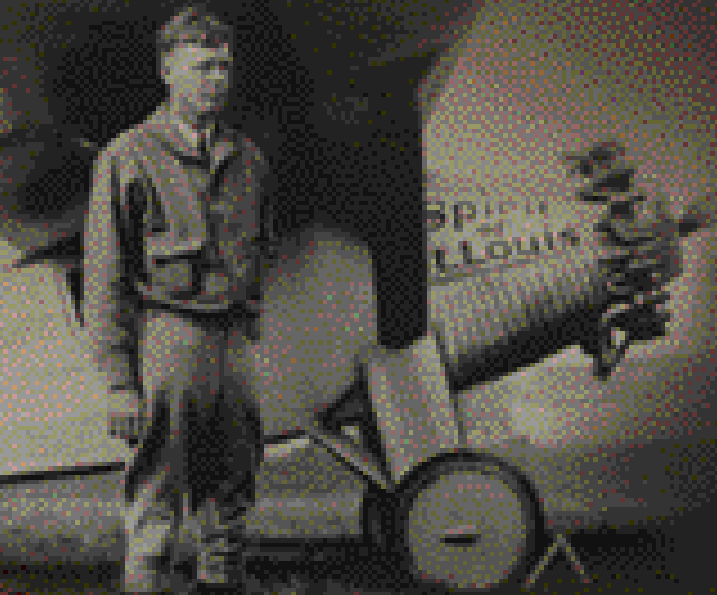


# Aviation firsts.

May, 1927 – Charles Lindbergh becomes the first to successfully solo across the Atlantic on a route from New York to Paris.



March, 1998 – The GNC 300XL TSO becomes the first STC'd installation of a TSO-C129a, A1 IFR certified GPS/comm with moving map display. Also shown is the GPS-only, GPS 155XL TSO



*Displays change automatically for daylight or low light viewing.*

Charles Lindbergh's landmark event jettisoned him into the spotlight. And there he'd stay, recognized as a great aviator, navigator and communicator for an exciting new industry.

Today's GARMIN GNC 300XL TSO embodies many Lindbergh characteristics as a navigation and communication pioneer. It's a C129a, A1 IFR certified moving map GPS/comm combining a powerful 12 parallel channel receiver with a 760 channel VHF transceiver. Truly, a product like no other.

But the story doesn't end there. Our GMA 340 offers never before seen functionality, clarity and value in an audio panel. And the GTX 320 transponder epitomizes solid state efficiency in space,

power and heat emissions.

These products join an impressive list of GARMIN panel mounts that represent the most forward-thinking avionics technology. Cutting edge ideas with an old fashion reverence for service.

GARMIN's changing the future of aviation with products that are designed better, built better and backed better. See them today.



# GNC 300XL/GPS 155XL



## Jeppesen Database

<b>Coverage:</b>	Americas, International or Worldwide
<b>Airports:</b>	Identifier, city/state, country, facility name, lat/long, elevation, fuel service, control, approach information
<b>VORs:</b>	Identifier, city/state, country, facility name, lat/long, freq., co-located DME (or TACAN), magnetic variation, weather broadcast indication
<b>NDBs:</b>	Identifier, city/state, country, facility name, lat/long, freq., weather broadcast indication
<b>Intersections:</b>	Identifier, country, lat/long, nearest VOR
<b>Comm Freq.:</b>	Approach, arrival, control area, departure, Class B, Class C, CTA, TMA, TRSA with sector, altitude and text usage; also ATIS, clearance delivery, tower, ground, unicom, pre-taxi
<b>Runways:</b>	Designation, length, surface, lighting, ILS/localizer freq. and ID, pilot controlled lighting freq.
<b>FSS/ARTCC:</b>	Identifier, reference VOR (FSS only), freq., usage
<b>MSA:</b>	Minimum safe altitude along and in proximity to user-defined flight plan
<b>SUA:</b>	US Class B & C with sectors, Int. CTA, TMA & TRSA with sectors, all SUAs, including MOAs, prohibited and restricted w/ controlling agency & airport
<b>Approaches:</b>	Non-Precision approaches for U.S., and GPS-only approaches
<b>SIDs/Stars:</b>	Contain all pilot-nav SIDs/Stars

## Safety

<b>Emergency Search:</b>	9 nearest airports, VORs, NDBs, intersections, or user waypoints; 2 nearest FSS with frequencies; 2 nearest ARTCC frequencies
<b>Power Backup:</b>	Optional NiCad battery pack automatically powers unit in case of electric power failure
<b>Alarms:</b>	Arrival, proximity, timers, SUAs less than 10 minutes, 2nm and inside SUA

## User Customization

<b>Waypoints:</b>	1000 user-defined
<b>Flight Plans:</b>	20 reversible routes of up to 31 waypoints each
<b>Comments:</b>	Storage for comments on up to 250 waypoints
<b>Checklists:</b>	9 user checklists of up to 30 items each
<b>Messages:</b>	9 scheduled user messages

## Physical Specifications

<b>Size:</b>	Unit:	6.25 x 5.64 x 2 inches	159 x 143 x 51 mm
	Rack w/connectors:	6.32 x 6.79 x 2 inches	161 x 172 x 51 mm
<b>Weight:</b>	Unit:	2.55 lbs.* (155XL is 2.05 lbs.)	1.16 kg* (.93 kg)
	Rack w/connectors:	.83 lbs.	0.38 kg
<b>Display:</b>	80 x 240 double super twist nematic with six times the contrast of typical DSTN displays. Automatic contrast adjustment with reverse display mode for exceptional readability in direct sunlight or at night.		
<b>Source:</b>	10-15 VDC* (155XL is 10-33 VDC), optional remote rechargeable battery, 115-230 VAC with optional AC adapter for GPS simulator operation		
<b>Battery Life:</b>	Up to 2 hours with screen time out enabled		
<b>Data Storage:</b>	Internal battery retains stored data up to 5 years		

## Environmental

<b>Temperature:</b>	Operating:	-20°C to +55°C (-4°F to +131°F)
	Storage:	-55°C to +85°C (-67°F to +185°F)
<b>Humidity:</b>	95% non-condensing	

## Performance

<b>Certification:</b>	TSOC37d Class 4 (VHF Transmitter)* TSOC38d Class C (VHFReceiver)* TSO C129a, Class A1 (en route, terminal and approach)
<b>VHF Transceiver*:</b>	760-channel, aviation band 118-136.975 MHz 5 watt minimum transmitter power
<b>GPSReceiver:</b>	PhaseTrac12™, 12 parallel channel receiver, simultaneously tracks and uses up to 12 satellites
<b>Acquisition Time:</b>	15 seconds (warm), 45 seconds (cold)
<b>Update Rate:</b>	1/second, continuous
<b>Accuracy:</b>	Position: 15 meters (49 feet) RMS**, 1-5 m w/ DGPS corrections Velocity: 0.1 knot RMS steady state
<b>Dynamics:</b>	Velocity: 999 knots Acceleration: 6G
<b>Comm. Features*:</b>	Auto squelch control, standard headset output with sidetone and audio leveling, stuck mike transmission timeout, emergency channel select, 'autotune' frequency selection
<b>Navigation Features:</b>	Search and Rescue Operation (ladder search), pilot-defined course selection and waypoint hold, Closest Point of Approach, dep. & arr. frequencies
<b>Moving Map Features:</b>	14 map scales from 0.5 to 300 nm, with nearby waypoints, nav aids and sectorized airspace, runway, and navigation data displayed. Autozoom feature automatically keeps present position and destination on the map, with user-selectable track up, north up or DTK up display
<b>Planning Features:</b>	True Airspeed, Density Altitude, Winds Aloft, RAIM Availability, Sunrise/Sunset Calculations, Trip, Fuel and VNAV Planning
<b>Interfaces:</b>	ARINC 429; RS232 – Plotting (NMEA 0183 v.2.0), Aviation, PC Interface, Altitude Serializer, Fuel Sensor, Fuel/Air Data Computer, Gray Code, RMI Serial Data
<b>Map Datums:</b>	124 and 1 user-defined (Stored on NavData® Card)

## Components

<b>Standard:</b>	GNC 300XL TSO GPS/Comm or GPS 155XL TSO Receiver NavData® Card Aviation Installation Kit — GPS Antenna, Rack and Connectors 3/32" Hex Wrench Pilot's Guide Quick Reference Card Database Subscription Packet
<b>Optional:</b>	Remote NiCad Battery/Charger Pack 115/230 VAC Adapter Personal Computer Kit User Data Card 28 to 14 VDC converter*

\*GNC300XL only

Specifications subject to change without notice.

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\*\*Subject to accuracy degradation to 100m 2DRMS under the United States

Department of Defense imposed Selective Availability Program.

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GARMIN International 1200 E. 151st Street, Olathe, Kansas 66062 913/397.8200 FAX 913/397.8282  
GARMIN (Asia) Corporation 3rd Floor, No. 1, Lane 45, Pao-Hsing Road, Hsin-Tien, Taiwan  
886/2.917.3773 FAX 886/2.917.1758  
GARMIN (Europe) Ltd. Unit 5, The Quadrangle, Abbey Park Industrial Estate, Romsey, SO51 9AQ, UK  
44/1794.519944 FAX 44/1794.519222