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Simrad GN70 Navigation System

The Simrad GN70 CDU (Control and Display Unit) is an IMO compliant* and cost effective navigation system for today's professional market. The GN70 has a colour display and is designed to work together with the new GS70 GPS antenna, or a range of existing IMO type-approved* GPS smart antennas and GPS compasses.

The GN70 is a versatile global navigation system that offers a NMEA 2000 (N2K) interface for easy plug-and-play connection to high performance modules such as the AP70/80, Class B-AIS, and other navigation systems that are N2K enabled. The GN70 can be used as a single display, or multi-unit redundant displays. The NMEA 2000 interface means the user can change things like backlight settings across all Simrad NMEA 2000 capable electronics on the bridge, or switch to a different heading source all from the GN70 display.

GS70 GPS Antenna

The GS70 GPS antenna is also new to the market and is an IMO compliant* NMEA 2000 Smart Antenna that integrates with the GN70. It can receive DGPS corrections from SBAS satellites such as WAAS. The GS70 has 32 channels and can output position at 1Hz, 5Hz, or 10Hz. The antenna has GPS accuracy (2DRMS) of 5m, and DGPS (SBAS) accuracy of 2m.



▶ GN70
Control and
Display Unit

▶ GS70
GPS Antenna

Other GPS Antenna Options

As well as the GS70, the GN70 is an IMO type-approved* navigation system with the MX521A or MX525A/MX5B D/GPS antenna (via the MX610JB –NMEA 2000 to NMEA 0183). The GN70 is also compatible with the HS80 and MX575C DGPS compasses (via a N2K connection or through the MX610JB).

Main Features:

- Convenient data interface using SimNet and NMEA 2000 Network including simple plug-and-play connectivity to other N2K enabled systems
- Rotary knob for easy 'push to enter' functionality
- IMO compliant*
- Dedicated hot keys for position, navigation, heading, AIS and MOB for easy access
- LAN can be used to output NMEA 0183/IP messages
- 5" bonded display for clearer, fog-proof operation
- 16-bit color TFT display provides wider viewing angle
- GS70 antenna is designed with 32 channels GNSS receiver with SBAS (WAAS) capability
- Position update from GS70 smart antenna at 1, 5, or 10 Hz
- GN70 can be used with HS80 GPS compass, which has dual IMO compliance* certification for use as a primary position AND heading device
- External RTCM correction for DGPS mode with optional MX610JB junction box.

Technical specifications overleaf.

* Approval pending



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Technical Specifications

▶ DISPLAY	
Display Size	5 in. \ 127 mm
Display Resolution	480 x 480 (H x W)
Display Type	16-bit color TFT
Anti-fog	Bonded LCD glass
Best viewing direction	All directions
Display backlight	CCFL
Keypad backlight	LED
▶ TECHNICAL / ENVIRONMENTAL	
Casing	Rear housing - Aluminum, Front housing - Plastic
Waterproof Standard	IPX4
Width	9.06 in \ 230 mm
Height	5.6 in \ 144 mm
Depth	1.61 in \ 54 mm
Operating Temperature	-30°C to 55°C (22°F to 131°F)
Weight	1.2 Kg (2.7 lbs.)
Mounting	In-Dash (standard) U-bracket (optional)
▶ POWER	
Power input	10 - 24 VDC
Power Supply: Input Current	0.7A at 12 VDC with backlight on, 0.4A with backlight off
NMEA 2000 Load Equivalency Number	1 network load (50mA)
▶ NETWORKING / CONNECTORS	
CAN bus	Yes
NMEA Output *	NMEA 2000 NMEA 0183 (via the MX610JB)
LAN Ethernet	Yes – for software update and NMEA 0183/IP
*NMEA 2000 certification pending	

▶ SOUNDER	
Sonar Depth	Digital number
Depth Alarm	Yes
▶ GPS / NAVIGATION	
Receiver type	L1,L2 C/A code 1.575 GHz & 1.602 GHz
GPS Antenna Type	GS70 Antenna (N2K), high-sensitivity GPS+WAAS (Americas) or GPS+EGNOS+MSAS (non-Americas)
GPS Receiver Channels	32 channels
Waypoint Storage	5000
Routes	200
Plot Trails	Up to 10 trails - up to 12,000 points/trail
Man Overboard Feature	Yes
GPS Alarms	Yes
2-D Steering Display	Yes
Tide Plot	Yes
Sun/Moon Almanac	Yes
Compass Rose	Yes
AIS display	Yes (when AIS receiver is connected)
External RTCM	Yes (via MX610JB)

PART NUMBER	DESCRIPTION
000-10913-001	GN70 Navigation System
000-11137-001	GS70 NMEA 2000 GPS Antenna
000-10938-001	HS80 GPS Compass
000-10747-001	MX575C DGPS Compass
727050	MX521A GPS Smart Antenna
000-11139-001	MX610 Junction Box



Pictured with mounting bracket (optional).

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