FURUNO

MARINE DGPS/WAAS NAVIGATOR

Model GP-37

- Automatic or manual selection of either WAAS or DGPS
- 4.5" Silver Bright LCD display
- Multiple display modes to suit a variety of navigational requirements
- Up to 999 waypoints, 50 routes and 1,000 track points
- One-touch waypoint entry
- Customizable NavData Displays
- Track Back feature stores waypoints at user defined intervals for early trace-back cruise
- Waypoint & Route upload/download through RS-232C port

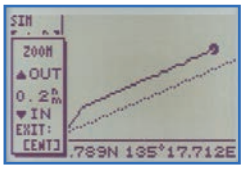
The GP-37 is an advanced GPS navigator designed for coastal ships, fishing boats and pleasure craft. It is equipped with a WAAS receiver and a DGPS receiver as standard supply. The powerful processor performs high-speed processing, position fixing and augmentation. It utilizes both WAAS and differential radio beacon correction methods.

This compact and cost-effective unit offers extremely accurate position fixes - 10 m for the basic GPS, 3 m where WAAS service is available and 5 m with DGPS. It should be noted that DGPS is more reliable and accurate, as the WAAS system is still currently under development. There is no guarantee of accuracy, integrity, continuity or availability of the WAAS signal. For that reason, the GP-37 runs with DGPS as the default setting in auto selection mode. If the DGPS signal can not be received for any reason, the WAAS mode is automatically selected. Manual setting is also available.

The Display modes include Plotter, two Customizable displays, Steering, Highway and Speedometer Mode. The Steering Display mode provides an intuitive indication of course to steer and cross-track-error (XTE). The Customizable display allows you to select the display layout so the navigation data you are interested in is displayed in large characters.

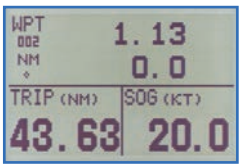
Speedometer

Steering



Plotter

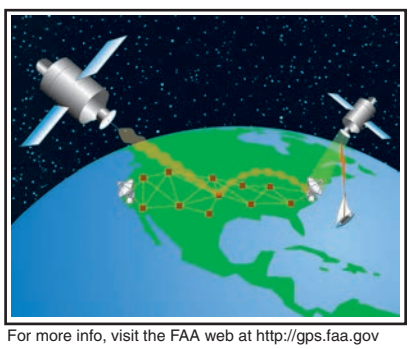
Highway



Customizable display

WAAS (Wide Area Augmentation System)

WAAS is a GPS navigation system which applies correction data by means of geostationary satellites. The US FAA has been testing this system and others using Satellite-Based Augmentation Systems (SBAS). As the WAAS utilizes the same frequency as the GPS, a single antenna can receive GPS and WAAS signals. At the moment two Inmarsat GEOs are available, i.e., AOR-W and POR. Similar systems are under development in Japan (MSAS: MSAT Satellite-based Augmentation System) and Europe (EGNOS: European Geostationary Navigation Overlay System). They are said to be fully interoperable and compatible. Major contributors of an error in a single frequency GPS system is a receiver clock drift and signal delays by refraction. The WAAS reference stations on the earth monitor the GPS constellation and route GPS error data to the WAAS satellite via the master earth station. The Inmarsat or communication satellite broadcasts the differential corrections to users.



For more info, visit the FAA web at http://gps.faa.gov

www.furuno.co.jp

SPECIFICATIONS OF GP-37

GPS/WAAS

Receiver Type	GPS Twele disrete hannels C/A ode all-in-iew WAAS reeier standard itted in Display Unit
Receive Frequency	L 7 MHz
Time to First Fix	seonds typial Warm start
Tracking Velocity	nots
Geodetic Systems	WGS- and others

DGPS

Reference Stations	Automati or manual seletion All DGPS stations in the world are in memory
Frequency Range	3 - 3 Hz all ITU regions Hz steps
Coverage	m appro rom a reerene station
Modulation and format	Minimum Shit eying MS in RTCM SC ormat

Accuracy

GPS m
DGPS m
WAAS 3 m

Display

diagonal W H mm LCD piels

Display Modes

Plotter Highway Steering Display Na Data Display and Customizable Display Modes

Memory Capacity

ships tra points waypoints with omments
routes 3 waypoints/route

Alarms

Arrial Anhor wath TE Speed WAAS/DGPS Time Trip
Odometer

Language

English Spanish Frenh German Duth Italian Portuguese Vietnamese Inddonesian apanese

Interface

Output NMEA 3 er //
AAM AP OD WC GGA GLL GTD RMA RM RMC VTG TE DA
Input
YMWPL YEOMAN wpt data in NMEA 3
DGPS data in RTCM SC er

ENVIRONMENT

IEC test method
Temperature Display Unit -C to C
Antenna Unit -C to 7C
Waterprooing Display Unit IP IEC CFR USCG
Antenna Unit IP IEC

POWER SUPPLY

- VDC 3 - 7 A

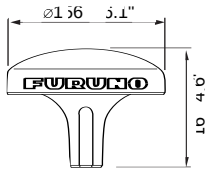
EQUIPMENT LIST

Standard
Display Unit unit
GPA- Loop Antenna H-ield with m able set
3 Installation Materials and Spare Parts set

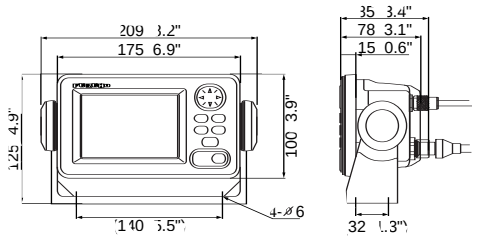
Option
Antenna ase
CP- Pipe mountNo 3-QA33 De mount
No 3-QA3 Oset braet No 3-RC Handrail mount
Flush Mount it F type OP-/ or S type OP-7

Antenna Unit 3 g oz

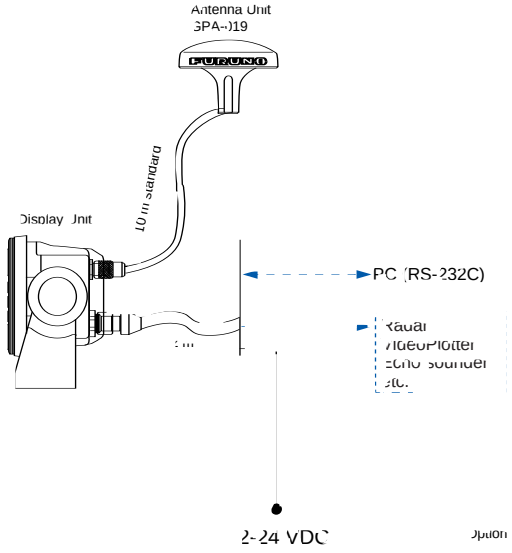
GPA-019 Loop Ant H-ield



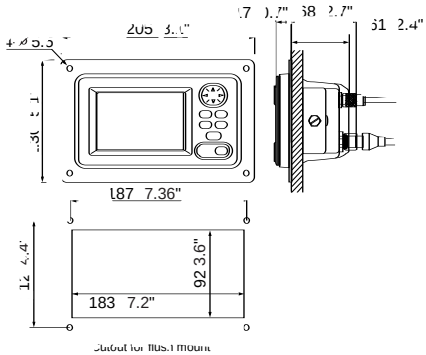
Display Unit g lb



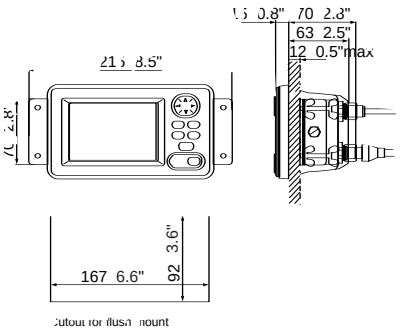
Interconnection Diagram



Flush Mount Kit F-type



Flush Mount Kit S-type



SPECIFICATIONS SUECT TO CHANGE WITHOUT NOTICE

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