FURUNO

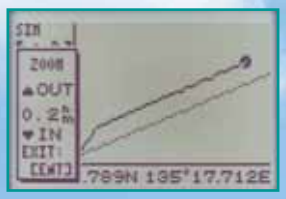
MARINE GPS/WAAS NAVIGATOR

with VideoPlotter function

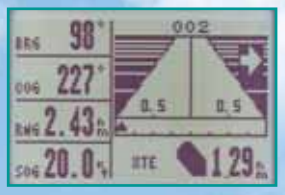
Model GP-32

- Improved accuracy with built-in SBAS receiver
- 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 screens
- Track Back feature stores waypoints at user defined intervals for early trace-back cruise
- Waypoint & Route upload/download through RS-232C port

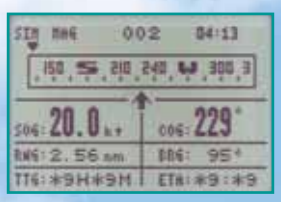
Speedometer



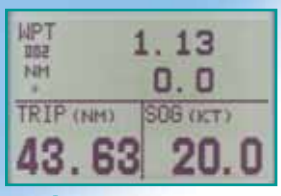
Plotter



Highway



Steering



Customizable display

The GP-32 is an advanced GPS navigator with a SBAS (WAAS/EGNOS/MSAS) receiver designed for coastal ships, fishing boats and pleasure craft. The powerful processor performs high-speed processing of position fixing and augmentation using SBAS correction. It comes with an easy to use track plotter which stores up to 1,000 track points.

This compact and cost-effective unit offers extremely accurate position fixes. It is accurate to 10 meters, and with WAAS mode activated, it's accurate to within 3 meters.

The display modes include Plotter, Nav Data, Steering, Highway, Speedometer and two customizable mode. The Steering mode provides an intuitive indication of course to steer and cross-track-error (XTE). The Highway mode is useful when you are heading for your fishing ground or following a series of waypoints along a planned route.

The user-friendly design permits easy and straightforward operation with minimum key strokes. The system has various alarm functions to warn of arrival to or departure from a predefined area (arrival/anchor watch), XTE exceeding a preset limit, Alarm Clock and more.

SBAS (Satellite-Based Augmentation Systems)

is a general term for a GPS navigation system with differential correction by means of geostationary satellites. In the US, it is called WAAS (Wide Area Augmentation System), whereas in Europe and Japan, it is called EGNOS (European Geostationary Navigation Overlay System) and MSAS (MSAT Satellite-based Augmentation System), respectively.

Outline of WAAS

www.furuno.com

SPECIFICATIONS OF GP-32

GPS/SBAS (WAAS/EGNOS/MSAS)

Receiver Type	GPS: Twelve discrete channels, C/A code, all-in-view. SBAS receiver: standard fitted in Display Unit
Receive Frequency	L1 (1575.42 MHz)
Time to First Fix	12 seconds typical (Warm start)
Tracking Velocity	999 kt
Geodetic Systems	WGS-84 (and others)

DGPS

Reference Stations	Automatic or manual selection
Frequency Range	283.5 - 325.0 kHz (all ITU regions), 0.5 kHz steps

Accuracy

GPS	10 m (95%)
DGPS	5 m (95%)
WAAS	3 m (95%)

Display

4.5” diagonal 95 (W) x 60 (H) mm LCD, 120 x 64 pixels

Display Modes

Plotter, Highway, Steering, Speedometer, Nav Data and 2 pages Customizable display

Memory Capacity

1,000 ship’s track points
999 waypoints with comments
50 routes, 30 waypoints/route

Alarms

Arrival, Anchor watch, XTE, Speed, WAAS (SBAS) /DGPS, Time, Trip, Odometer

Language

English, Spanish, French, German, Dutch, Italian, Portuguese, Vietnames, Indonesian, Japanese

Interface

Output (NMEA 0183 ver 1.5/2.0/2.1):
AAM, APB, BOD, BWC, GGA, GLL, GTD, RMA, RMB, RMC, VTG, XTE, ZDA

Input:
YMWPL (YEOMAN wpt data in NMEA 0183)
DGPS data in RTCM SC104 ver 2.1

DGPS Capability

RTCM SC104 v.2.1 format in RS232C from FURUNO GR-80 DGPS Bracon Receiver

ENVIRONMENT (IEC 60945 test method)

Temperature
Display Unit: -15°C to +55°C
Antenna Unit: -25°C to +70°C

Waterproofing
Display Unit: IPX5 (IEC 60529), CFR46 (USCG)
Antenna Unit: IPX6 (IEC 60529)

POWER SUPPLY

12-24 VDC, 240-120 mA

EQUIPMENT LIST

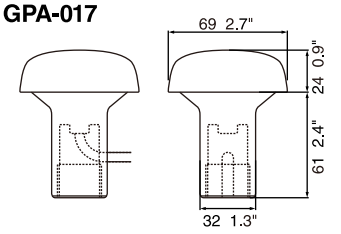
Standard

1. Display Unit accommodating SBAS receiver	1 unit
2. Antenna Unit GPA-017 with 10 m cable	1 unit
3. Installation Materials and Spare Parts	1 set

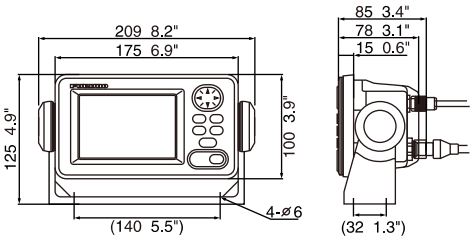
Option
1. Antenna Base
CP20-01111 (Pipe mount), No. 13-QA330 (Deck mount), No. 13-QA310 (Offset bracket), No. 13-RC5160 (Handrail mount)
2. Flush Mount Kit F type (OP20-18/29) or S type (OP20-17)

Antenna Unit 0.15 kg 0.3 lb

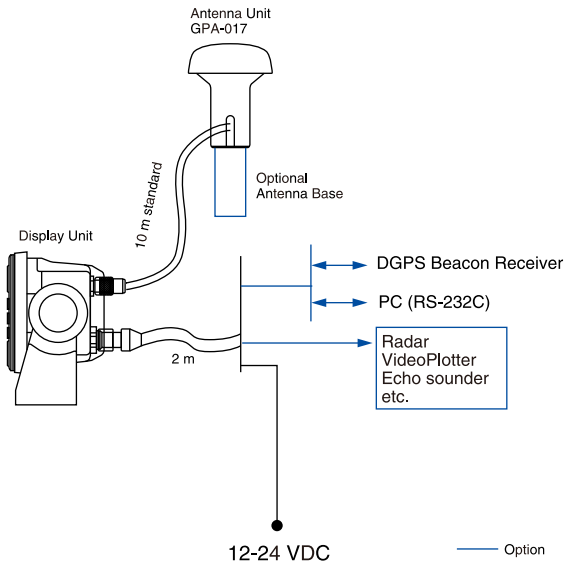
GPA-017



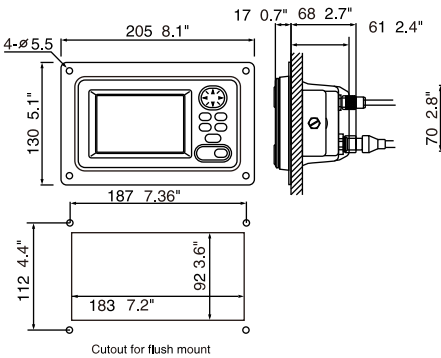
Display Unit 0.54 kg 1.2 lb



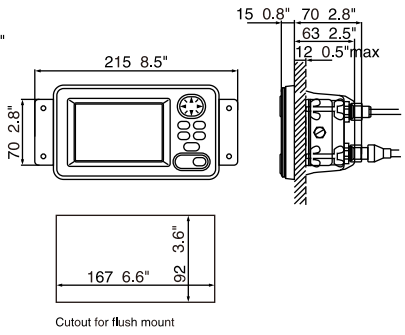
Interconnection Diagram



Flush Mount Kit F-type



Flush Mount Kit S-type



Beware of similar products

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Catalogue No. N-847I