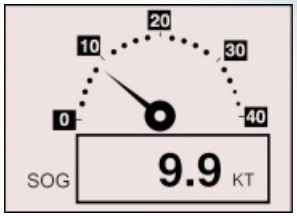
ONWA®

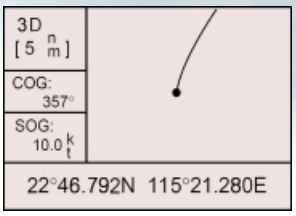
MARINE GPS/SBAS NAVIGATOR

With VideoPlotter function

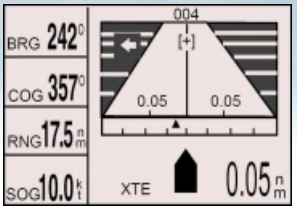
- Improved accuracy with built-in SBAS receiver
- 4.5″ Silver Bright LCD display
- Multiple display modes to suit a variety of navigational requirements
- Up to 999 waypoints, 50 routes and 2,500 track points
- One-touch waypoint entry
- Customizable NavData screens
- Track back feature stores waypoints at user defined intervals for early trace-back cruise
- Waypoint & Route upload/download through RS-232C port



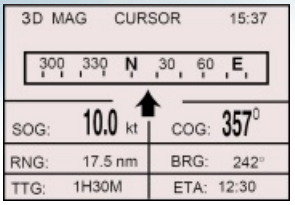
Speedometer



Plotter



Highway



Steering

Customizable display

The KP-32 is an advanced GPS navigator with a SBAS 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 2,500 track points.

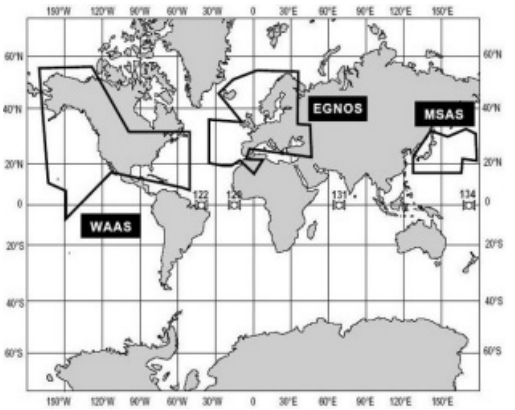
This compact and cost-effective unit offers extremely accurate position fixes. It is accurate to 15 meters, and with SBAS mode activated, it's accurate to within 3 meters.

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 crosstrack-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

An SBAS provider furnishes GPS signal corrections to SBAS users, for even better position accuracy, typically better than three meters. WAAS, available in North America, MSAS (Multi-Functional Satellite Augmentation System) for Japan and EGNOS (Euro Geostationary Navigation Overlay Service) for Europe, those are the provider in the worldwide SBAS (Satellite Based Augmentation System) navigation system. All providers will be compatible with one another, thus providing "seamless" position fixes to SBAS users. Major contributors of an error in a single frequency GPS system are a receiver clock drift and signal delays by refraction. The SBAS reference stations on the earth monitor the GPS constellation and route GPS error data to the SBAS satellite via the master earth station. The Inmarsat or communication satellite broadcasts the differential corrections to users.



SPECIFICATIONS OF KP-32

GPS/SBAS

Receiver Type	GPS: Twelve discrete channels, C/A code, all-in-view. SBAS receiver.
Receiver Frequency	L1 (1575.42 Mhz)
Time to First Fix	15 second average (Hot start)
Tracking Velocity	999 knots
Geodetic System	WGS-84

Accuracy

GPS	15m (95%)
SBAS	3m (95%)

Display

4.5″ diagonal 95(W) x 63(H) mm LCD, 240 x 160 pixels

Display Modes

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

Memory Capacity

2,500 ship's track points
999 waypoints with comments
50 routes, 30 waypoints/route

Alarms

Arrival, Anchor watch, XTE, Speed, Time, Trip, Odometer

Language

English, Spanish, French, German, Dutch, Italian, Portuguese, Vietnamese, Indonesian,Chinese, Thai

Interface

Output (NMEA 0183 ver 2.0)

AAM, APB, BOD, BWC, GGA, GLL, RMB, RMC, VTG, XTE, ZDA

ENVIRONMENT

Temperature

Display unit:	-15℃ to +55℃
Antenna unit:	-25℃ to +70℃

Waterproofing

Display unit:	IPX5
Antenna unit:	IPX6

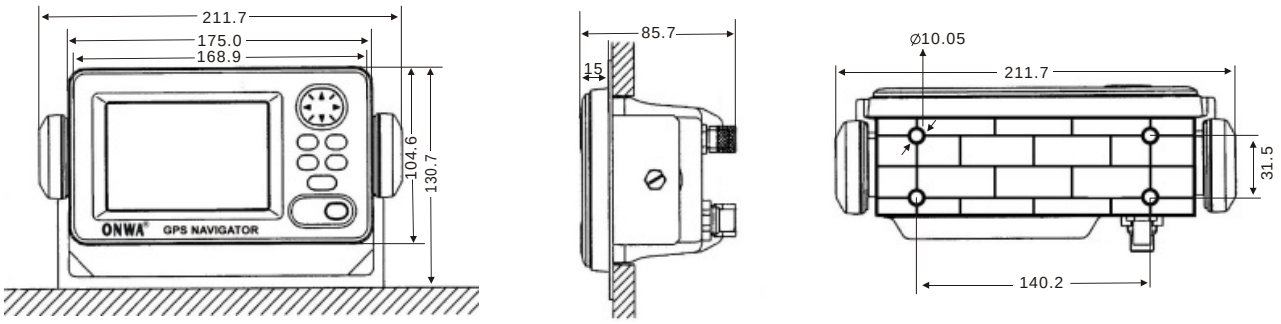
POWER SUPPLY

12-24 VDC, 240-120 mA

EQUIPMENT LIST

1.Display unit accommodating SBAS receiver	1 unit
2.Antenna unit KA-07 with 10 m cable	1 set
3.Installation materials and spare parts	1 set

Display Unit



Interconnection Diagram