SPECIFICATIONS OF
GP-33

GP-33
GPS NAVIGATOR

DISPLAY

Screen Size	4.3" color LCD
Effective Display Area	95.04 (W) x 53.85 (H) mm
Pixel Number	480 (V) x 272 (H) pixels

Display Mode
Plotter, Highway, Steering, Nav Data, Satellite, User Display1, User Display2

Memory Capacity
3,000 ship's track points
10,000 marks and waypoints with comments
100 routes, 30 waypoints/route

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

GPS/WAAS

Receiver Type
GPS: Twelve discrete channels, C/A code, all-in-view
WAAS receiver: Standard fitted in display unit

Receive Frequency	L1 (1575.42 MHz)
Time to First Fix	Less than 90 seconds (Cold start)
Tracking Velocity	999.9 knots
Geodetic Systems	WGS-84 (and others)

ACCURACY
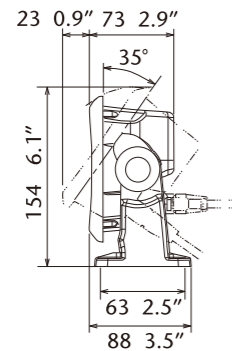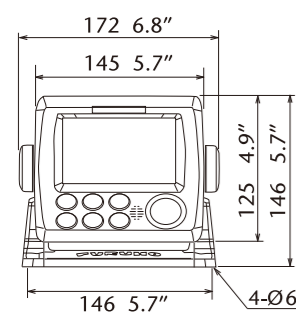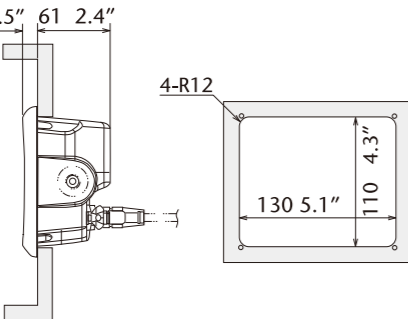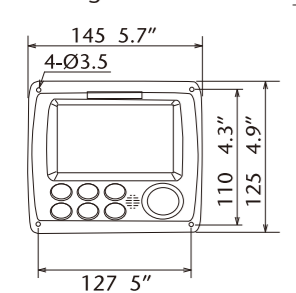GPS: Better than 10 m (2drms)
WAAS: Better than 3 m (2drms)

INTERFACE
Ports
CAN bus: 1 port
NMEA0183: 2 ports

Output
NMEA0183
AAM, APB, BOD, BWC, BWR, DTM, GGA, GLL, GSA, GSV, RMB, RMC, VTG, XTE, ZDA
CAN bus
059392, 060928, 061184, 126208, 126464, 126720-1, 126720-2, 126992, 126996, 127258, 129026, 129029, 129033, 129044, 129283, 129284, 129285, 129538, 129539, 129540, 130822, 130823
Input
CAN bus
059904, 060928, 061184, 065286, 126208, 126720

POWER SUPPLY   15 VDC : LEN7 (CAN bus)
12-24 VDC : 0.24-0.12 A (Non CAN bus)

ENVIRONMENT

Temperature	Receiver unit: -15°C to +55°C
	Antenna unit: -25°C to +70°C
Waterproofing	Receiver unit: IP56
	Antenna unit: IPX6

EQUIPMENT LIST
Standard
1. Receiver unit GP-33 with drop cable 6 m   1 unit
2. Antenna unit GPA-017 with cable 10 m   1 unit
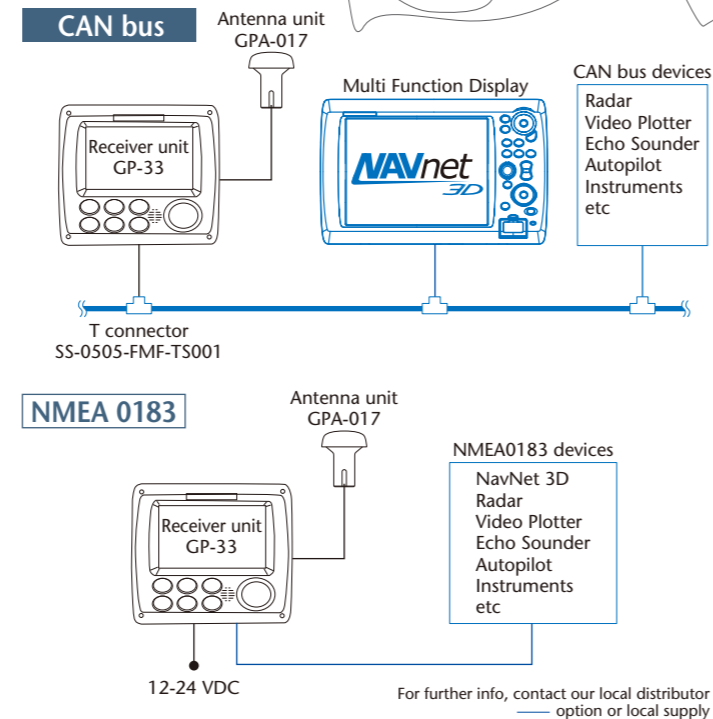3. Standard spare parts and installation materials
Option
1. Junction box   FI-5002
2. Cable assembly   KON-004-02M (NMEA0183)   2 m

OFFICIAL NAME OF THE EQUIPMENT
GPS Navigator GP-33

Display Unit
GP-33
0.72 kg   1.58 lb

172 6.8"
145 5.7"
125 4.9" 146 5.7"
146 5.7" 4-Ø6

Flush mount
0.61 kg   1.34 lb
145 5.7"
4-Ø3.5
110 4.3" 125 4.9"
127 5"
12 0.5" 61 2.4"
110 4.3"
130 5.1" 110 4.3"
4-R12

GPS Antenna
GPA-017
0.6 kg   1.3 lb

23 0.9" 73 2.9"
35°
154 6.1"
63 2.5"
88 3.5"
69 2.7"
61 2.4" 24 0.9"
32 1.3"

INTERCONNECTION DIAGRAM

CAN bus

Antenna unit GPA-017
Receiver unit GP-33
Multi Function Display
NAVnet 3D

CAN bus devices
Radar
Video Plotter
Echo Sounder
Autopilot
Instruments
etc

T connector
SS-0505-FMF-TS001

NMEA 0183

Antenna unit GPA-017
Receiver unit GP-33

NMEA0183 devices
NavNet 3D
Radar
Video Plotter
Echo Sounder
Autopilot
Instruments
etc

12-24 VDC

For further info, contact our local distributor
— option or local supply

BRG M(°) 277
COG M(°) 261
RNG (nm) 0.98
SOG (kn) 20.0
38°00.242'N 123°00.935'W
XTE 0.081 nm
330
COG M(°) 19.3
SOG (kn)
300
W
30
W3D [320nm]
SOG (kn) 18.0
COG (°) 234
34°06.326'N 135°22.825'E
38°01.422'N 123°00.983'W

FURUNO
GP-33
DISP   GO TO   MENU ZOOM
BRILL   WPT MOB   ENT

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
All brand and product names are registered trademarks, trademarks or service marks of their respective holders

FURUNO World Wide Warranty 2 YEARS

Enhanced Sunlight Viewable   CAN bus

www.furuno.com

A smart navigation solution that fits perfect into your console

Compact in size, yet big on features and performance, the FURUNO GP-33 is the perfect GPS navigator for a wide range of vessels. This advanced unit provides accurate and reliable position fixing, thanks to a super sensitive, 12-channel GPS receiver combined with integrated WAAS technology.

The GP-33 has a waterproof display and is built to stand up to tough marine conditions. The durable casing houses an impressive memory, capable of storing up to 3,000 points of ship's track, 10,000 points for marks and waypoints, and 100 routes of up to 30 waypoints each. Vital navigation data is presented on a 4.3" color LCD.

The GP-33 features FURUNO's CAN bus interface system for feeding highly accurate navigation data to your NavNet 3D, radar, chart plotter, autopilot, fish finder or other navigation equipment. The unit offers easy plug-and-play installation with CAN bus network connectivity. NMEA0183 protocol versions are also supported.

▸ 4.3" "Sunlight Viewable" color LCD (Brightness: 700 cd)
▸ Enhanced data legibility thanks to large characters and high resolution visual aid
▸ Stores up to 10,000 marks/waypoints, 100 routes and 3,000 track points
▸ 7 display modes available, including 2 user-customized modes

▸ Supports both NMEA0183 and CAN bus interface
▸ Contact closure capability available on the 10P connector
▸ SBAS capable for better measurement

SBAS 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.

Various Displays

The GP-33 provides navigation data and displays them in a wide variety of numerical and graphical formats. You may freely select which data you want displayed with easy to use controls. The combination of a high resolution screen and large data fields makes the screen easy to read in almost any condition.
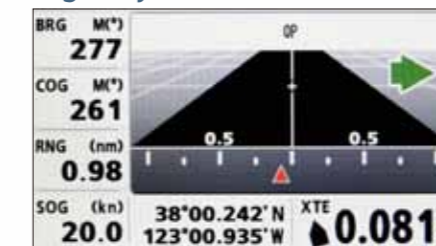
NAV data

The nav data display shows receiver status, position in latitude and longitude (or TDs), course over ground, speed over ground, date and time.
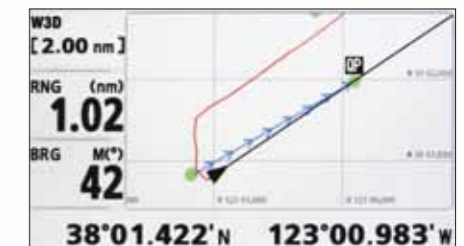
Highway

3-D view of own ship's progress toward destination (waypoint). This mode is best used for navigation when a straight line course can be followed.

Plotter

The plotter display traces own ship's track and shows position on a 2-D map*. This mode presents various data and information with graphic symbols and icons, rather than text.
The Auto Waypoint Entry function plots ship's track as "WAYPOINTS". The user may define waypoint entry by time interval, tack angle, etc.

*The unit does not include charts.

COG

Easy to read digital compass heading display that greatly assists you in maintaining a desired course.

User Display

You choose what data is displayed in the User Display Mode.

What is CAN bus?

CAN bus is a communication protocol that shares multiple data and signals through a single backbone cable. You can simply connect any CAN bus devices onto the backbone cable to expand your network onboard. With CAN bus, IDs are assigned to all the devices, and the status of each sensor in the network can be detected. All the CAN bus devices can be incorporated into the NMEA2000 network.

Easy Operation

Innovative digital graphic displays and intuitive on-screen menu structure provide simple operation and easy access to the features you use most frequently.

GP-33
GPS NAVIGATOR