FURUNO

7" WIDE GPS/WAAS CHART PLOTTER

Model **GP-1870**
Model **GP-1870F**

7" WIDE GPS/WAAS COLOR
CHART PLOTTER
GP-1870

7" WIDE GPS/WAAS COLOR
CHART PLOTTER with FISH FINDER
GP-1870F

RotoKey
GPS Internal antenna
3D CHART

AUTO
Enhanced Sunlight Viewable
Bonded LCD
Polarized Friendly
CAN bus

C-MAP by JEPPESEN
C-MAP 4D
Digital Charts that grow with your boating needs.

FDF — FURUNO Digital Filter
ACCU-FISH
BDS — Bottom Discrimination Sounder

Download on the App Store
Jeppesen Marine Plan2Nav

www.furuno.com

Photo: GP-1870F

Jeppesen Marine Plan2Nav[3]

With the "Plan2Nav" app you can watch images from your GP-1870/1870F[1] wirelessly on your iOS devices[2].

Download on the App Store

- Bright 900 cd/m^2 LCD gives excellent readability even in direct sunlight
- The LCD and the AR glass are bonded together to ensure no fogging issues
- Clear visibility even when wearing polarized sunglasses
- Internal GPS antenna for simple and easy installation
- Standard C-Map 4D chart[3] available on SD card
- RotoKey™ revolving menu and familiar point-and-click operation
- Internal memory: Waypoint/Track 30,000 points, Route 1,000 routes
- Easy-Routing function: Automatically create a route
- GP-1870/1870F have built-in Wireless LAN, downloading up-to-minute weather service "C-Weather" by Jeppesen Marine[3], via Internet.

GP-1870F features
- Equipped with FURUNO's latest digital fish finder technology
    - Bottom Discrimination Function[4]
    - ACCU-FISH™ — A unique fish size analyzer
- Post-processing Gain Control applied to all echoes displayed on the screen
- White Line function — Discriminates fish lying near the bottom

⦿ Wirelessly connect to your iOS devices

The GP1870/1870F connects to your iOS devices using the app "Jeppesen Marine Plan2Nav" over a wireless ad-hoc connnection[5].

⦿ Polarized Friendly - Clearly Remarkable

The GP-1870 series has an LCD screen that does not "black out" when wearing polarized sunglasses, providing clear visibility from virtualy any angle.

Black out	Viewable
Conventional Models	GP-1870 GP-1870F

⦿ RotoKey™

The RotoKey™ has a two-fold function. Rotate the knob for a finely stepped zoom control. Push the knob to get full access to GP-1870/1870F controls.

⦿ C-Weather information[3]

C-Weather data can be downloaded from Jeppesen.com to the GP-1870/1870F. Wind, Wave, Weather, Humidity, Temperature and Visibility (fog) information can be displayed on screen.

⦿ Bonded LCD - Clear Readability

Our bonded LCDs offer a fog-free structural design. This ensures that the display will never be affected by water condensation, caused by an air gap between the LCD and the front cover plate.

⦿ Bottom Discrimination feature[4]

The GP-1670F/1870F Bottom Discrimination feature enables the fish finder to indicate if a major component of the bottom is mud, sand, gravel or rocks.

BDS
Bottom Discrimination Sounder

⦿ Easy Replacement from legacy models

Optional bezel kit is available allowing for easy replacement from Furuno GP-1650, GP-1850 and GP-7000 series.

⦿ ACCU-FISH™ indentifies individual fish with size or depth indication and fish symbol
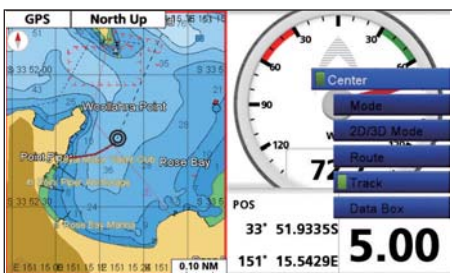
Individual fish size is culculated from echo strength. ACCU-FISH™ can detect the fish size of 10 of 199 cm, in the depth of 2 to 100 m.
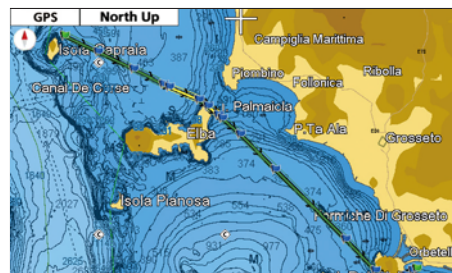
ACCU-FISH

⦿ Dual Range Chart Display

In "Dual Range Chart Display" mode, the GP-1870/1870F displays dual charts, both long and short range, at the same time.

Plotter + SOG + Rotokey

Easy-Routing

⦿ East-Routing function

The Easy-Routing Technology analyzes the high-quality C-MAP 4D data, works out the shortest route and then checks and displays hazards in each leg of the journey. Enter start and end points along with specific boat parameters and automatically receive waypoints of the shortest route. The technology highlights potential hazards and displays varying levels of alerts for each segment of the route and allows you to manually adjust the route.
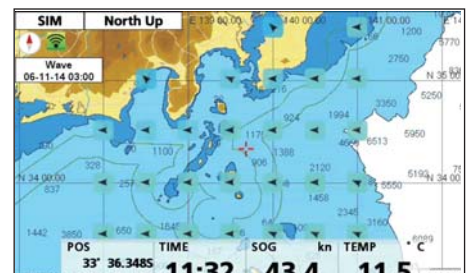
Plotter + Fish Finder[6] (ACCU-FISH and Bottom Discrimination)

Dual range chart display

C-Weather information[3] (Wind)

1 New software version 2.01 required.
2 iOS version 4.3 and later.
3 Please visit www.jeppesen.com for further information.
4 Thru-hull transom transducer mount required.

5 The GP1870/1870F accepts one (1) connection at a time, multiple iOS devices can not be connected simultaneously.
6 GP-1870F only.
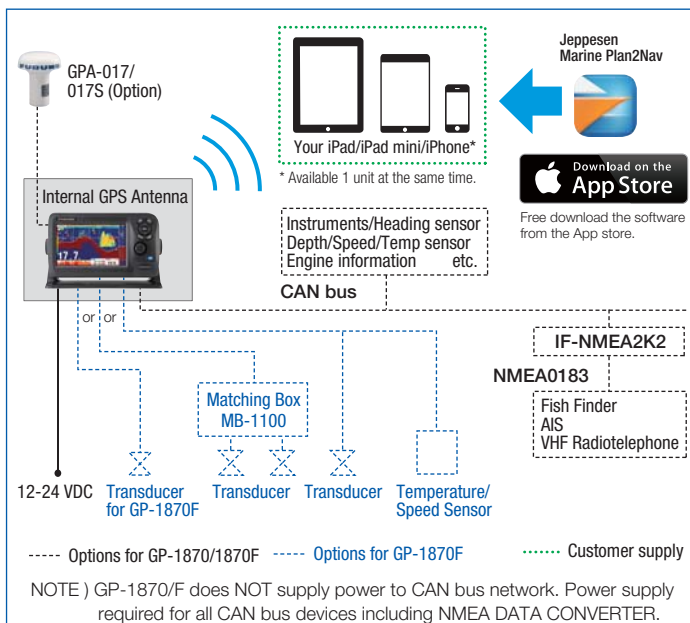
SPECIFICATIONS OF
Model GP-1870/1870F

■ DISPLAY UNIT

Screen Type	Color TFT LCD
Screen Size	7" WIDE
Screen Resolution	800 x 480 pixels (WVGA)
Screen Brightness	900 cd/m2 (typical)
Language	English (US & UK), French, Spanish, German, Italian, Portuguese, Danish, Swedish, Norwegian, Finnish, Greek, Japanese, Chinese, Russian, Thai, Vietnamese, Polish, Bahase Malaysia, Bahasa Indonesia
Display Modes	Course plot, Nav Data, Instruments*, Engine monitor*, Anemometer*, Fuel level gauge*, GPS status, Fish finder**
	*External sensors required **GP-1870F only
Memory Capacity	30,000 points for ship's track and wayponts 1,000 planned routes (Max. 50 points per route) 5,000 quickpoints
Interface	CAN bus: 1 port Mini USB*: 1 port (2.0) *for maintenance only SD card Slot: 1 slot (Acceptable up to 32 GB)
Chart	C-MAP 4D
Other Functions	AIS target display* *AIS sensor required
Temperature	-15˚C to +55˚C
Waterproofing	IP56
Power Supply	12-24 VDC
Consumption Current	GP-1870: 0.6 - 0.3 A GP-1870F: 1.0 - 0.5 A (When 600 W transducer used)

■ GPS / WAAS

Receiving Type	GPS: 50 channels WAAS: 1 channel
Receiving Frequency	L1 (1575.42 MHz)
Accuracy	
Internal antenna : GPS 10 m Max / MSAS 7 m Max
External antenna*: GPS 10 m Max / MSAS 7 m Max
	*GPA-017 (Option)
Time to First FIX	90 s (cold start)
Tracking Velocity	999 Kn
SBAS	WAAS, EGNOS, MSAS

GPA-017/017S (Option)

Internal GPS Antenna

Jeppesen Marine Plan2Nav

Your iPad/iPad mini/iPhone*
* Available 1 unit at the same time.

Download on the App Store

Free download the software from the App store.

Instruments/Heading sensor
Depth/Speed/Temp sensor
Engine information   etc.

CAN bus

or or

IF-NMEA2K2

NMEA0183

Fish Finder
AIS
VHF Radiotelephone

Matching Box MB-1100

12-24 VDC | Transducer for GP-1870F | Transducer | Transducer | Temperature/Speed Sensor

----- Options for GP-1870/1870F   ----- Options for GP-1870F   ······· Customer supply

NOTE) GP-1870/F does NOT supply power to CAN bus network. Power supply required for all CAN bus devices including NMEA DATA CONVERTER.

■ FISH FINDER (for GP-1870F only)

Transmit Frequency	50/200 kHz
Transmission	600 W or 1 kW*
	*Matching box MB-1100 required for certain transducers
Display Range	5 - 1,200 m, shift: 0 - 1,200 m
Extension Mode	ACCU-FISH*, Auto (Fishing/Cruising/Manual), A-Scope, Marker Zoom, Bottom Zoom, Bottom Lock, Bottom Discrimination*
Picture Advance	7 steps: 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, stop

*In some instances, bottom component or fish size indicated on the GP-1870F may differ from its actual size or structure. Please carefully read the operation manual prior to using this feature.

■ EQUIPMENT LIST

Display unit GP-1870/1870F, Installation materials and standard spare parts

■ OPTIONS

• GPS antenna GPA-017/017S • Antenna cable assembly • NMEA2000 heavy cable assembly • Mast mounting kit • Junction box • In-line Terminator • NMEA2000 interface unit • NMEA data converter • Waterproof cap • Termination Resistor • NMEA2000 light cable assembly • Cable assembly • Mini/micro T-connector • L-angle mounting base • Handrail mounting base • Rectifier • T-connector • Inner hull mounting kit* • Matching box* • Speed/Temperature sensor* • Temperature sensor*
*for GP-1870F only

■ TRANSDUCER OPTIONS (for GP-1870F only)

600 W	1 kW*	
• 520-5MSD (Bronze)	• 50/200-1T	• 50B-6B
• 520-5PSD (Plastic)	• 200B-5S	• 50B-6
• 525-5PWD (Plastic)		

*Matching box MB-1100 required for certain transducers
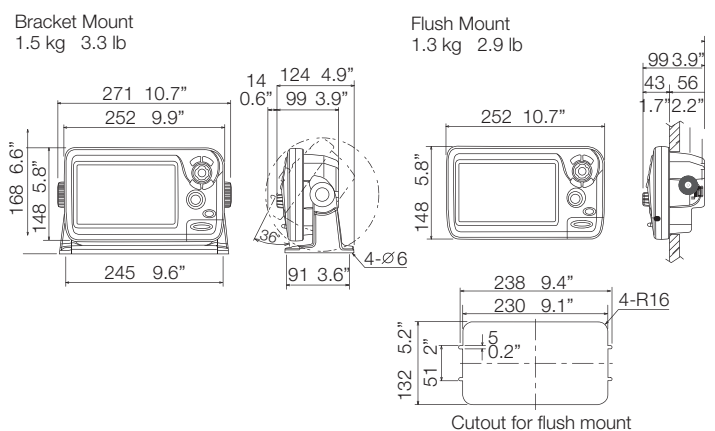

NMEA DATA CONVERTER < IF-NMEA2K2 >

Furuno's NMEA DATA CONVERTER is a compact interface unit, that converts NMEA 0183 data into CAN bus/NMEA2000 data and vice-versa. Control data such as Heading and Rate-of Turn can be translated in high speed conversion rate.

IF-NMEA2K2

GP-1870 / GP-1870F

Bracket Mount
1.5 kg   3.3 lb

Flush Mount
1.3 kg   2.9 lb

271 10.7"
252 9.9"
168 6.6"
148 5.8"
245 9.6"
14 0.6"
124 4.9"
99 3.9"
36
91 3.6"
4-Ø6

252 10.7"
148 5.8"
99 3.9"
43, 56
1.7"2.2"

238 9.4"
230 9.1"
4-R16
132 5.2"
51 2"
5 0.2"

Cutout for flush mount

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
PLEASE READ MANUAL BEFORE USING THE UNIT