

FURUNO

MAN pilot



NAVpilot Steers Your Vessel Straight the First Time and Every Time!

- Unparalleled "Adaptive" technology allows NAVpilot to continue improving your vessel's steering on every voyage
- Auto set-up and Self-learning for vessel speed and course
- Versatile, high-resolution LCDs allow for a variety of user-defined display configurations
- One-touch operation for Standby, Auto and Nav modes
- Exclusive FishHunter[™] feature guides your vessel in orbit, figure eight or spiral maneuvers around fish targets
- Network up to six full-size NAVpilot-500, compact NAVpilot-511/611 and/or handheld NAVpilot-520 control units
- The NAVpilot-520 (handheld type) can work as a full-functioned remote control unit within a NAVpilot system
- Multi language: English, French, German, Italian,
 Portuguese and Spanish
- Optional junction box for NAVpilot 520 is available for remote operation







Steering your boat straight the first time and every time.

Here's the scenario. You're setting out for your favorite destination, the sun is shining

and the sky is as blue as
the sea. This is the perfect
time to let the NAVpilot
steer you straight to your
waypoint and let you enjoy
the sun and the scenery. No
matter if it is a stormy day or a
beautiful day, the NAVpilot series is
what you need to help you arrive at
your destination safely.

Self-learning and adaptive software.

Here is the key to how FURUNO has revolutionized the autopilot marketplace with the NAVpilot series. From the first dock-side setup through the last voyage you made, the NAVpilot continues to learn your vessel's steering characteristics.

This allows for dynamically adjusting the boat's steering for vessel speed, trim, draft, tide and wind effects, weather, etc. These characteristics are stored on the processor's memory where they are continuously optimized to make the NAVpilot more versatile.

Perfect for power, sail or work boats.

With a standard set of features unrivaled by any other autopilot on the market, the NAVpilot series is perfect for any vessel from sailboats through powerboats and everything in between. Features include
Auto Mode - one press of a button turns
the steering over to the NAVpilot to free you
to monitor your radar, chart plotter, etc.;
Advanced Auto Mode - utilizing automatic
ground tracking control to steer the vessel;
Nav Mode - track control system referenced
on a precision cross track error when
integrated with GPS navigator; and Wind
Mode - allows you to control your sailboat
while compensating for the effects of wind
and tide.

Fishing just got easier with the exclusive FishHunterTM(For power boat only).

FishHunter is a unique feature of FURUNO's NAVpilot series. Find a fish target with your FURUNO sonar/sounder or bird target with your Furuno radar and feed it to the NAVpilot. The NAVpilot will activate the FishHunter mode to perform orbit, spiral or figure eight maneuvers around the specified target. This feature can also be used for Man Overboard (MOB).

Safety notice:

Autopilot should not be used in congested areas or around obstacles. Switch the autopilot to manual mode whenever potential danger is present. An autopilot is an aid to, not a replacement for, an experienced helmsman.



FAP-5001 for NAVpilot-500

Extra large monochrome LCD 85 mm (W) x 85 mm (H) 3.4" (W) x 3.4" (H)

The 2 DIN unit with an extra large monochrome LCD displays a variety of information with large easy-to-read characters and graphics. The large control knob allows for precise course changing and straightforward menu selecting.

NEW



FAP-6011 for NAVpilot-611

High-resolution monochrome LCD

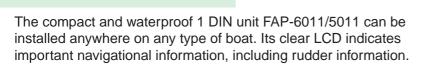
85 mm (W) x 43 mm (H) 3.4" (W) x 1.7" (H)



FAP-5011 for NAVpilot-511

High-resolution monochrome LCD

85 mm (W) x 43 mm (H) 3.4" (W) x 1.7" (H)



NEW Flash mount kit for FAP-6011

FAP-6011 is a new NAVpilot display/controller, its appearance completely matches with FURUNO FI-50 series instruments and NavNet 3D when they are installed side by side.

Flush mounting can be achieved for FAP-6011 by replacing of the front panel. Using the optional supplied front panel, flush mounted units protrude less than 10mm from the bulkhead.





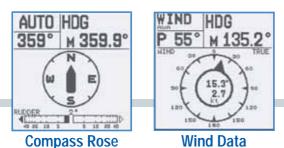


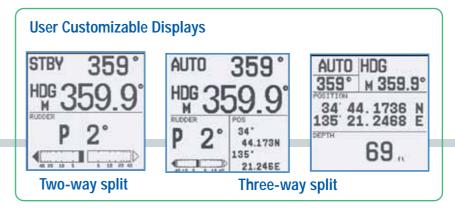
FAP-5021 for NAVpilot-520

Handheld control unit 85 mm (W) x 43 mm (H) 3.4" (W) x 1.7" (H)

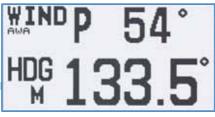
A handheld control unit allows for full operation of autopilot from anywhere onboard. Its clear LCD displays various navigation information to assist you in steering your boat.

Display Modes for NAVpilot-500





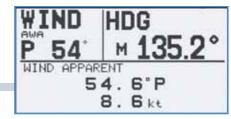
Display Modes for NAVpilot-511/520/611



Wind Mode





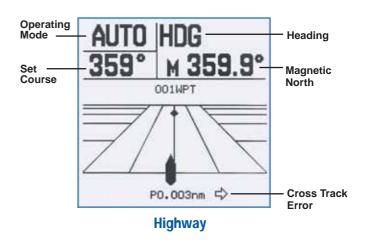


Remote Control Units

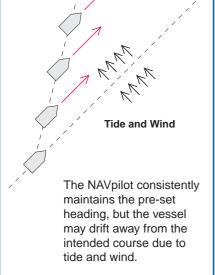


Display Modes

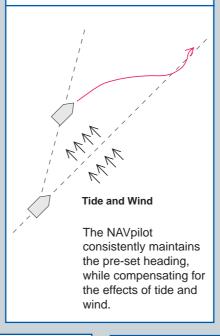
Simple one-touch mode selection provides reliable steering and course control. Multiple customizable display modes include Rudder angle, Heading, Highway, Compass rose, Wind Data, Nav Info, etc.



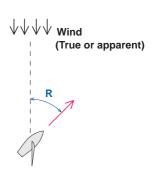
Auto mode



Advanced auto mode

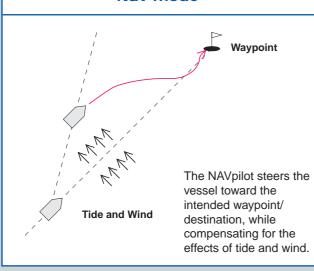


Wind mode

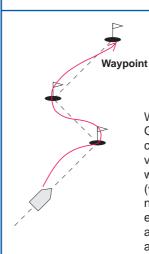


The NAVpilot consistently maintains the pre-set heading at the constant direction toward the true or apparent wind direction, while compensating for the effects of tide and wind.

Nav mode



Route tracking



When interconnected with a GPS navigator, the NAVpilot can automatically steer the vessel to follow a series of waypoints in succession (waypoints set by the navigator). On arriving at each waypoint or destination, audio-visual alerts will be activated.

The FishHunter™ mode can be activated to automatically set up your boat's steering behavior after it reaches the last waypoint in a route. The radius(L) of each maneuver can be set in the menu.

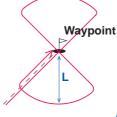
With the Orbit maneuver, the vessel will be steered in a circular pattern around the final waypoint (fishing spot).

Orbit

FishHunter™

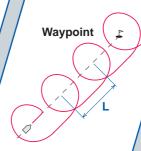
Waypoint

Figure eight

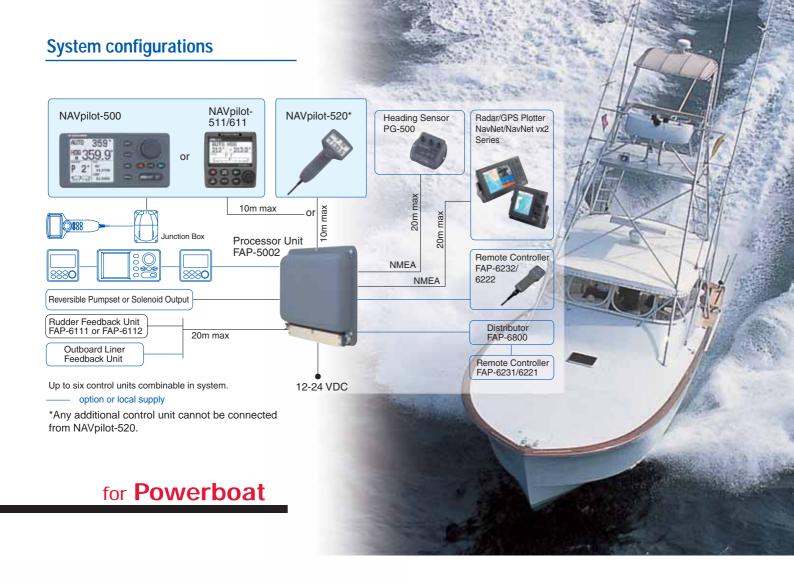


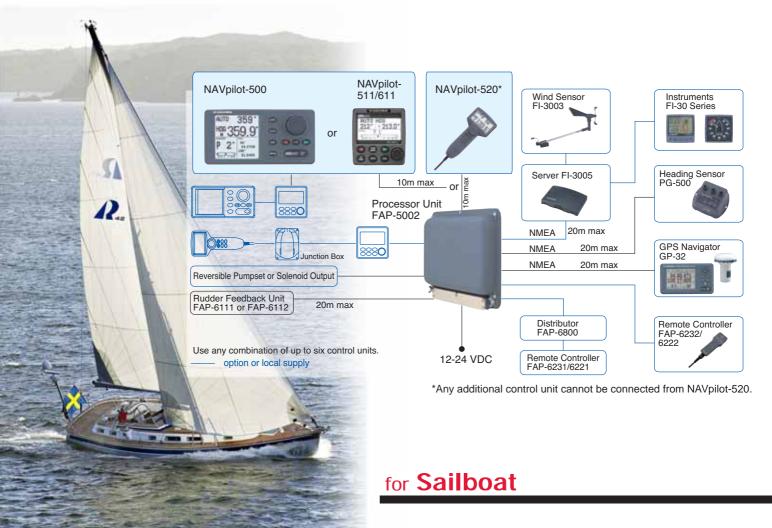
With the Figure eight maneuver, the vessel will continually return to the final waypoint in a figure eight pattern.

Spiral



With the Spiral maneuver, the vessel will be steered toward the waypoint spirally.





SPECIFICATIONS OF NAVpilot™

Operational Mode Auto, Navigation*, Wind (Sail boat only), Dodge,

Remote**, Fish Hunter™

*Required to connect with external GPS receiver

**Optional remote controller required

Reversible Hydraulic (Up to 25 Amp Continuous) **Drive System**

or Solenoid Drive Output

Display Type

FAP-5001: Silver bright LCD, 160 (H) x 160 (V) pixels FAP-5011/6011/5021: Silver bright LCD, 160 (H) x 80 (V) pixels

Display Modes

FAP-5001: Customizable Heading, Course, Rudder Angle,

Highway, Compass, Wind and Navigation

Information

FAP-5011/6011/5021: Customizable Rudder Angle

English, French, German, Italian, Portuguese, Languages

External Devices via NMEA0183 Interface;

FURUNO PG-500 Fluxgate or Satellite Compass Heading Sensor:

SC-50/110 by NMEA0183 HDG or HDM

(5 Hz or higher)

FURUNO GP-30 Series, GP-7000/7000F, Positioning Equipment

NavNet/NavNet vx2 series, other non-FURUNO GPS receiver (NMEA0183 data required)

FURUNO FI-3003 with server FI-3005 or other Wind Sensor non-FURUNO wind sensor (2 Hz or higher)

Auto Setup, Adaptive (Self-learning) with **Parameters Settings**

manual setting override: Weather, Rudder ratio, Counter rudder, Course changing rate, Rudder

angle limits

Alarms

Power failure, XTE, Nav signal error, Speed,

Arrival, Watch, Temp and Depth

POWER SUPPLY

12-24 VDC, 3.0 A (excluding pump) 10 W with 1 control unit (excluding pump) 25 W with 6 control units (excluding pump)

ENVIRONMENT

-15°C to +55° (IEC 60945 test method) Temperature:

IPX6 (FAP-5021 Control Unit) Waterproofing:

IPX5 (Control Unit, Rudder Feedback Unit)

1 unit

IPX2 (Processor Unit)

EQUIPMENT LIST

Standard

1. Control Unit FAP-5001 for NAVpilot-500,

FAP-5011 for NAVpilot-511, FAP-6011 for NAVpilot-611

or FAP-5021 for NAVpilot-520 (specify when ordering)

2. Processor Unit FAP-5002 1 unit

3. Rudder Reference Unit FAP-6112 1 unit 4. Installation Materials and Spare Parts 1 set

1. Lever Type Remote Controller FAP-6221/6222

2. Dodge Type Remote Controller FAP-6231/6232

3. Mounting Bracket

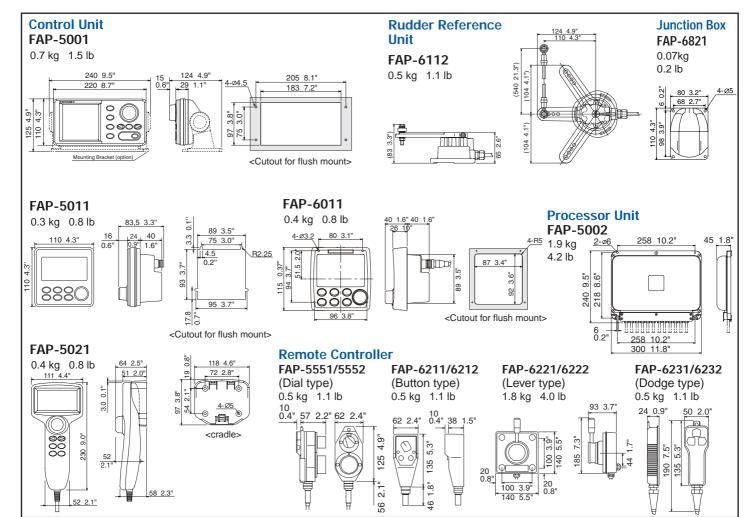
FAP-5001: FP64-01011, FAP-5011: FP64-01101

4. Cable for Control Unit MJ-A7SPF00012-100

5. Interface cable MJ-A7SPF00010-100/150/200

6. Distributor FAP-6800

7. Junction Box FAP-6821





A part of the steering algorithm of the NAVpilot series is developed thanks to the collaboration with FLSI.

TRADEMARK REGISTERED SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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