FURUNO®

The new benchmark in autopilots!

Perfect for a wide range of boats from small outboards through power boats.

Sailboats can take advantage of the new wind mode.

MAN pilot TM



NAVpilot-500





AUTO

盟 NAV







Catalogue No. M-1532f

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 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 FishHunter™ (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 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.



AUTO HDG 212° T 213.0° P 1'

FAP-5011 for NAVpilot-511

High-resolution monochrome LCD 85 mm (W) x 43 mm (H) 3.4" (W) x 1.7" (H)

The compact and waterproof unit can be installed anywhere on any type of boat. Its clear LCD indicates important navigational information, including rudder information.

FAP-5021 for NAVpilot-520

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

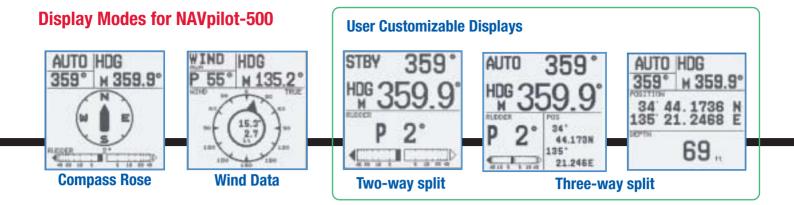
A handheld control unit allows for full operation of autopilot from anywhere onboard. Its clear LCD displays various navigation information to assist you in steering your boat.

Junction Box (Wall Socket)



The Junction Box is available for full operation at remote locations. Simply plug a NAVpilot-520 into a Junction Box, located in remote locations onboard, to allow for autopilot operation on the spot.





Display Modes for NAVpilot-511/520

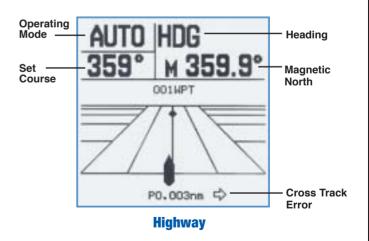


Remote Control Units

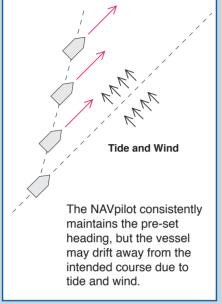


Display Modes

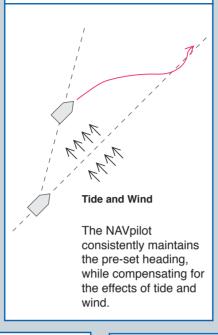
Simple one-touch mode selection provides reliable steering and course control. Multiple customizable display modes include Rudder angle, Heading, Highway, Compass rose, Wind Data, Nav Info, etc.



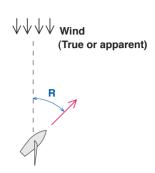
Auto mode



Advanced auto mode

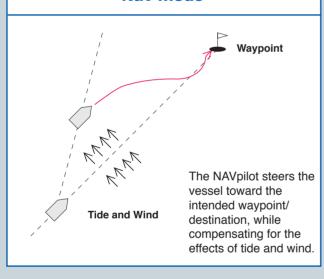


Wind mode

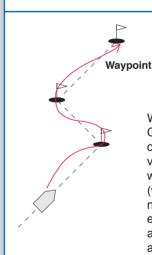


The NAVpilot consistently maintains the pre-set heading at the constant direction toward the true or apparent wind direction, while compensating for the effects of tide and wind.

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

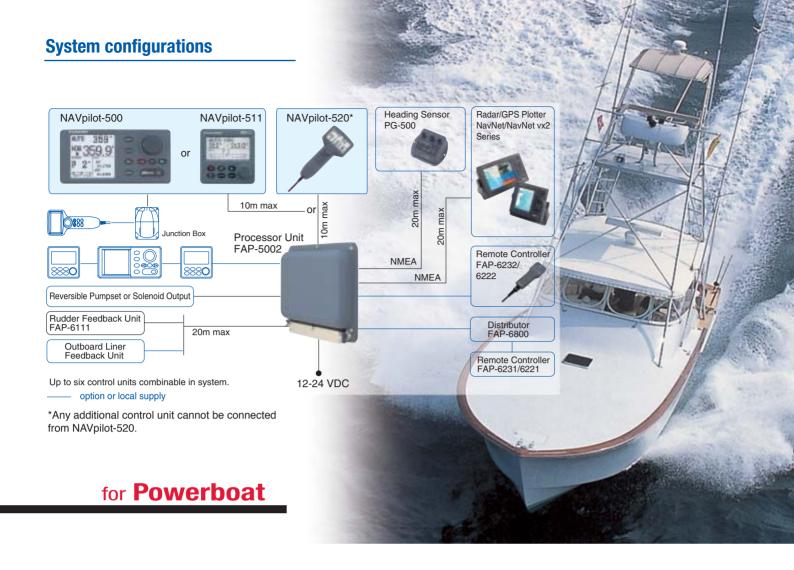
Waypoint

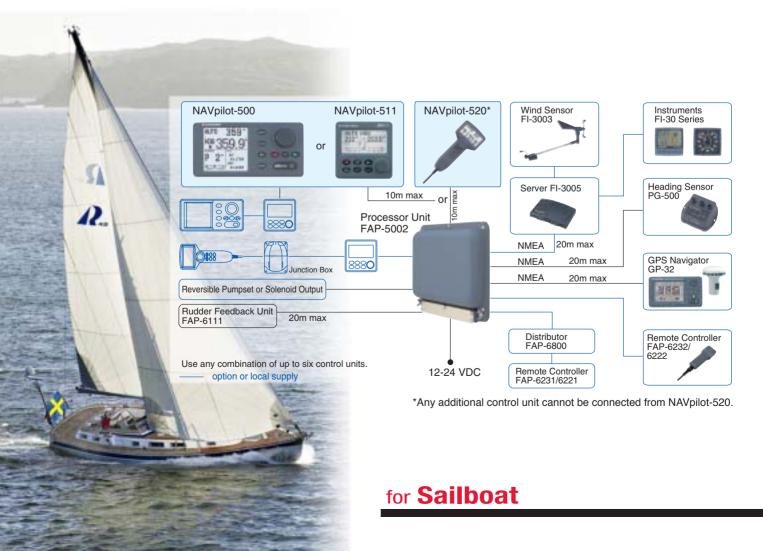
With the Figure eight maneuver, the vessel will continually return to the final waypoint in a figure eight pattern.

Spiral

Waypoint

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





SPECIFICATIONS OF NAVpilot™

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

Remote**. Fish Hunter™

*Required to connect with external GPS receiver

**Optional remote controller required

Drive System Reversible Hydraulic (Up to 25 Amp Continuous)

or Solenoid Drive Output

Display Type FAP-5001:

Silver bright LCD, 160 (H) x 160 (V) pixels FAP-5011/5021: 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-5011/5021: Customizable Rudder Angle

Languages English, French, German, Italian, Portuguese,

Spanish

External Devices via NMEA0183 Interface;

Heading Sensor: FURUNO PG-500 Fluxgate or Satellite Compass

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)

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

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

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: Waterproofing:

IPX6 (FAP-5021 Control Unit)

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 or FAP-5021 for NAVpilot-520

(specify when ordering)

2. Processor Unit FAP-5002 1 unit 3. Rudder Reference Unit FAP-6111 1 unit

4. Installation Materials and Spare Parts 1 set

Option

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

Control Unit Remote Controller FAP-5001 FAP-5551/5552 FAP-6211/6222 0.7 kg 1.5 lb (Dial type) (Button type) 0.5 kg 1.1 lb 0.5 kg 1.1 lb 205 8.1 4-ø4.5 220 8.7 29 1.1 183 7.2" 10 0.4" 38 1.5" 57 2.2" 62 2.4" 9.4 3.8 5.3 10 97 135 125 <Cutout for flush mount> <u></u>20. 2.1 **FAP-5011** 9 **Processor Unit** 99 0.3 kg 0.8 lb 83.5 3.3 **FAP-5002** 89 3.5" FAP-6221/6222 FAP-6231/6232 110 4.3 1.9 kg 4.2 lb 75 3.0" 0.6 4.5 0.2" R2.25 (Lever type) (Dodge type) 258 10.2" 45 1.8 1.8 kg 4.0 lb 0.5 kg 1.1 lb 93 3.7" 110 93 24 0.9" 8880 9.5 95 3.7 240 17.8 85 7.5" 5.3" <Cutout for flush mount> 20 0.8" 190 100 3.9 135 6 0.2 **FAP-5021** 258 10.2 0.4 kg 0.8 lb 300 11.8 64 2.5' 118 4.6' 51 2.0" 72 2.8' 111 4 4' **Rudder Reference Unit Heading Sensor FAP-6111 PG-500** 80 3.2" 0.5 kg 1.1 lb 0.3 kg 0.7 lb <cradle> 141 5.6 230 9.0" 80 **Junction Box** 52 2.1 5°00 4-Ø5 **FAP-6821** 80 3.2" 80 3.2 . 68 2.7 0.07kg 0.2 lb 2.3 52 2.1" 4 59 1 0.4



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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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