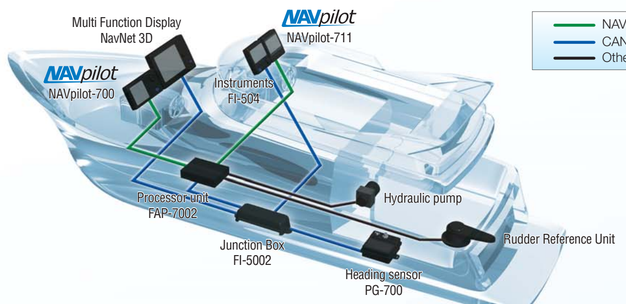
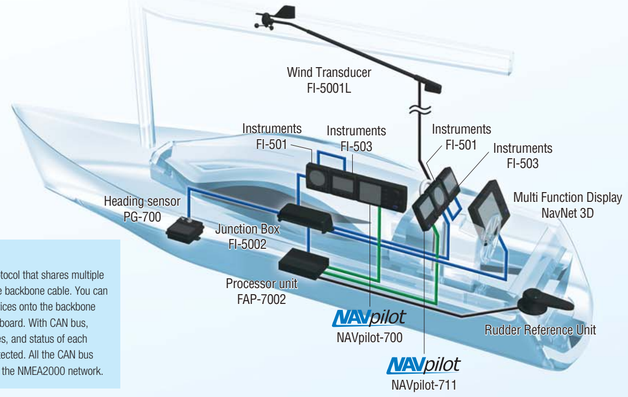
Furuno's new NAVpilot series is designed to match the NavNet 3D, FI-50 Instrument series and other navigation equipment. The "Plug and Play" CAN bus interface allows for easy installation and exceptional interface ability. The diagrams below show typical installations for power and sail boats.

POWER BOAT



SAIL BOAT



What is CAN bus?

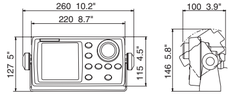
CAN bus is a communication protocol that shares multiple data and signals through a single backbone cable. You can simply connect any CAN bus devices onto the backbone cable to expand your network onboard. With CAN bus, IDs are assigned to all the devices, and status of each sensor in the network can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

SPECIFICATIONS OF NAVpilot

		AUTOPILOT		
		NAVpilot-700	NAVpilot-711	NAVpilot-720
CONTROL UNIT				
Display		Monochrome LCD		
Effective Display Area		85.2 (W) x 85.2 (H) mm	85.2 (W) x 43.6 (H) mm	
Pixel Number		160 x 160 dots	160 x 80 dots	
Backlight		8 steps		
Contrast		16 steps		
PROCESSOR UNIT				
Rudder Angle Adjustment		STBY, Auto, Navigation*, Wind**, Fish Hunter*, Turn, Tack, NFU, FU, Dodge * Navigational data required ** Wind data required		
Sea Condition Adjustment		AUTO/CALM/MODERATE/ROUGH		
Rudder Angle Settings		55˚ max		
Alarm		Deviation, Out of course*, Watch, Ship's speed*, Water temperature*, Depth*, Log*, Wind Deviation** * Navigation data reuired ** Wind data required		
INTERFACE				
Ports		CAN bus: 1, NMEA0183: 2		
Input		(NMEA0183) AAM, APB, BOD, BWC, BWR, DBT, DPT, GNS, GGA, GLL, HDG, HDT, HDM, MTW, MWV, RMC, RMB, ROT, RSA, TLL, VTG, VHW, VWR, VWT, VHW, XTE, ZDA (CAN bus) 059392,059904, 060928, 126208, 126992, 126996, 127250, 127251, 127258, 127488, 127489, 128259, 128267, 129025, 129026, 129029, 129033, 129283, 129284, 129285, 130306, 130310, 130311, 130577, 130312, 130313, 130314, 130577		
Output		(NMEA0183) DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, RMB, ROT, RSA, VHW, VTG, VWR, VWT, ZDA (CAN bus) 059392, 059904, 060928, 126208, 126464, 126992, 126996, 127245, 127250, 127251, 127258, 128259, 128267, 129025, 129026, 129029, 129033, 129283, 129284, 129285, 130306, 130310, 130311, 130312		
ENVIRONMENT				
Temperature		-15˚C to +55˚C		
Waterproofing	Processor unit	IPX0		
	Other unit	IPX5 (Front panel), IP56		
POWER SUPPLY				
		12-24 VDC: 4.0 A (excluding pump)		
EQUIPMENT LIST				
Standard		Control Units* (FAP-7001/7011/7021), Processor Unit FAP-7002, Installation Materials and Spare Parts *Specify when ordering		
Option		Control Units, Flush Mount Kits, Hanger Kits, Cradle, Rudder Reference Units FAP6112-200*, Remote Controllers, Cables, Connectors, Junction Box		

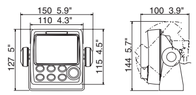
NAVpilot-700 Control Unit (Bracket-mount) FAP-7001

0.9 kg 1.9 lb



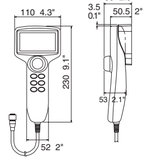
NAVpilot-711 Control Unit (Bracket-mount) FAP-7011

0.52 kg 1.15 lb



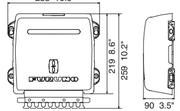
NAVpilot-720 FAP-7021

0.99 kg 2.2 lb



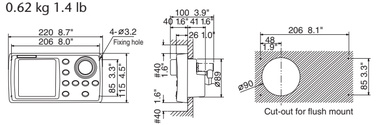
Processor Unit FAP-7002

1.9 kg 4.2 lb



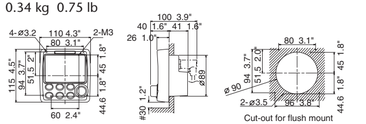
NAVpilot-700 Control Unit (Surface-mount)

0.62 kg 1.4 lb



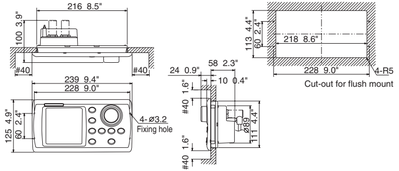
NAVpilot-711 Control Unit (Surface-mount)

0.34 kg 0.75 lb



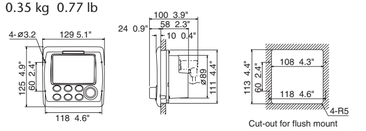
NAVpilot-700 Control Unit (Flush-mount)

0.64 kg 1.4 lb



NAVpilot-711 Control Unit (Flush-mount)

0.35 kg 0.77 lb



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NAVnet 3D Connect

FURUNO

NAVpilot

NAVpilot-700/711/720

AUTOPILOT

Kick back, relax and let NAVpilot steer you to the destination!

FURUNO's NAVpilot is a revolutionary autopilot with a sunlight viewable display designed for a variety of vessels.

It utilizes a self-learning and adaptive software algorithm, and plays an ultimate roll in course keeping capability which dynamically adjusts essential parameters for navigation to the various factors, i.e., vessel speed, trim, draught, tide and wind effects, dead band, weather, etc. These parameters are stored in the system memory and continuously optimized.

NAVpilot-700 NAVpilot-720 NAVpilot-711

NMEA2000 Certified | CAN bus | Enhanced Sunlight Viewable | NAVnet Connect

NAVpilot's remarkable self-learning, adaptive software is developed by collaborative works between FURUNO and FLSI.

- *CAN bus interface offers simple network with NavNet 3D and FI-50 Instrument series*
- *Simplified activation set-up by on-screen wizard*
- *Simple one-touch mode selection enables flexible steering and course control*
- *Perfect for inboard or outboard power boats and sail boats*
- *CAN bus interface allows devices to be incorporated into a NMEA2000 network*
- *NMEA0183 interface available*
- *Perfect cosmetic match with NavNet 3D and FI-50 Instrument series*

Self-learning and adaptive software

From the first dock-side setup through the last voyage you made, NAVpilot continues to learn your vessel's steering characteristics. This allows dynamic adjustments to the boat's steering for vessel speed, trim, draft, tide and wind effects, weather, etc. These characteristics are stored in the processor's memory where they are continuously optimized to make the NAVpilot more versatile.

Auto mode

NAVpilot consistently maintains the desired heading, but the vessel may drift off course due to the effects of tide and wind.

Advanced mode

NAVpilot consistently maintains the desired heading while compensating for the effects of tide and wind.

NAV mode / Route tracking

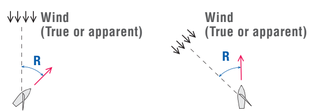
NAVpilot steers the vessel towards the current waypoint while compensating for the effects of tide and wind.

When connected to a GPS Navigator, NAVpilot steers the vessel to follow a series of waypoints in succession. Upon arriving at each waypoint or destination, audible and visual alerts are activated.

Wind mode*

NAVpilot consistently maintains the desired heading toward true or apparent wind direction while compensating for the effects of tide and wind.

* This mode is available for a sail yacht only. Wind information from FI-50 required.



Display modes for NAVpilot-700 and NAVpilot-711/720

NAVpilot provides various display options for you to customize data to suit your own preferences using a variety of digital and analogue graphics.

Display modes for NAVpilot-700

Rudder Angle

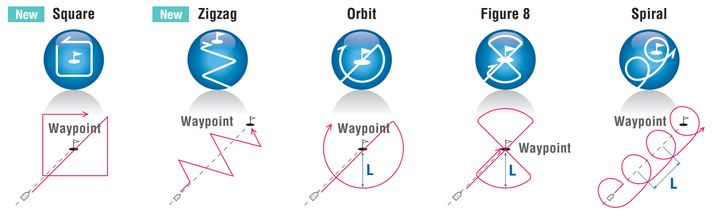
User Customizable Display

Display modes for NAVpilot-711/720

User Customizable Display

FishHunter mode

FishHunter mode 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 square, zigzag, circle, orbit, spiral or figure eight maneuvers around the specified target. This feature can also be used for Man Overboard (MOB).



Optional remote controller

A variety or remote control units are available for the NAVpilot series.

Lever type
FAP-6221/6222

Dial type
FAP-5551/5552

Button type
FAP-6211/6212

Dodge type
FAP-6231/6232