

FURUNO

NAVpilot

300/711C



NAVpilot 300
with Gesture Controller



NAVpilot 711C



www.furuno.com

NAVpilot



GC001



NAVpilot 300



NAVpilot 711C



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



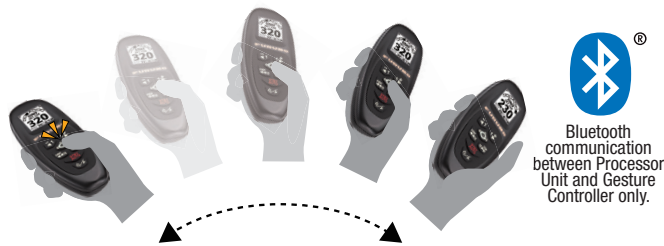
KEY FEATURES:

- ▶ Self-Learning and adaptive software; each time the boat goes to sea, the software learns the sea conditions and calculates the best adjustment for smooth steering
- ▶ Fantum Feedback™ offers simplified installation while delivering enhanced steering control - no need for physical rudder feedback unit
- ▶ Yanmar and Seastar VCS compatible
- ▶ Easy installation and smart network-based system configuration
- ▶ Waterproof Processing Unit (IP55) and Control Unit (IP56, IP65/67 for GC001)
- ▶ Selectable "Economy" and "Precision" Navigation Modes combine adaptive technology, providing fuel and power savings of 2.5% or more*
- ▶ "Precision" provides tighter course keeping, within 0.01 NM of the set course
- ▶ Perfect for inboard or outboard power boats and sail boats (NAVpilot 711C only)
- ▶ Autopilot control available from NavNetTZtouchXL/TZtouch3/TZtouch2/TZtouch/GP1871F/1971F
- ▶ NEW! FishHunter™ Drive delivers new control features for boaters utilizing select Suzuki outboard models (NavPilot 300 only)

* Based on Furuno testing and "Scenarios for a Clean Energy Future 2000" - U.S. Department of Energy (<https://www.nrel.gov/docs/fy01osti/29379.pdf>)

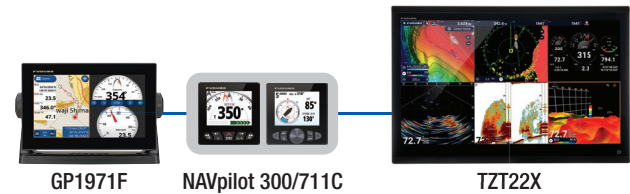
Remote Navigation In The Palm of Your Hands (NAVpilot 300 only)

The Gesture Controller is a revolutionary and unique way to steer your boat remotely. By using Bluetooth signals, it is possible to control the Autopilot from anywhere on the boat within 10 meters. Just push and hold the button, point to the desired heading, and release the button to let the Autopilot redirect the boat!



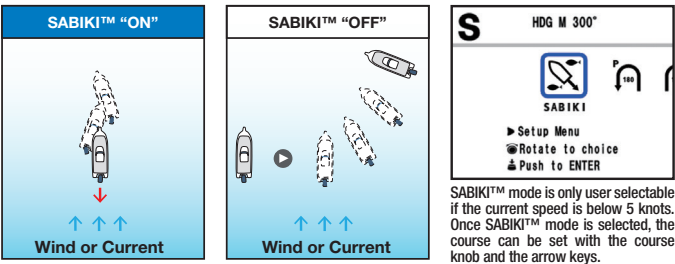
Autopilot Control from NavNet TZtouch Series and GP1871F/1971F

Furuno's NAVpilot Series are designed to match the GPS Chart Plotter GP1871F/GP1971F, the NavNet TZtouch Series, and other Furuno navigation equipment. The Plug and Play CAN bus interface allows for easy installation and exceptional interfacing.



SABIKI™ Mode for NAVpilot 300 and NAVpilot 711C

SABIKI™ mode lets the Autopilot take control while you are drifting astern so you can focus on fishing instead of steering. When moving astern at a slow pace, SABIKI™ mode is uniquely tailored for SABIKI fishing, jigging and bottom fishing. In order to maintain heading it is not sufficient to just reverse the engine and move astern. The steering has to be constantly adjusted in order to hold your heading. With SABIKI™ mode turned on, the direction can be kept just by adjusting the throttle. SABIKI fishing requires a bit of technique and whether you just started or have considerable experience, SABIKI™ mode will help you catch the bait fish needed for the big catch.



Compatible with EVC Engines

The NAVpilot 300/711C have the capability to work with Yanmar 8LV engine systems* and the Seastar Optimus360 Joystick system*.

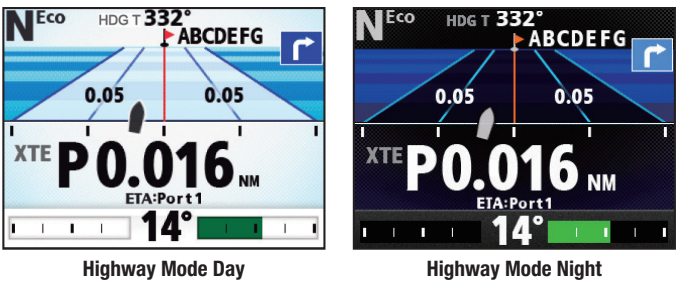
* Requires the optional IFNMEA2K2 to connect with NAVpilot 300/711C.

FishHunter™ Drive for Suzuki Outboards

Speed Control	The boat will maintain a constant speed, adjusting engine RPM as needed to account for changes in wind and tide.
Route Smoothing™	Decreases the speed of turns at waypoints while navigating an active route. Reducing speed when executing a turn helps keep the vessel on course.
Point Lock™	Allows the vessel to easily maintain a fixed position by controlling the rudder and throttle, countering the effects of wind and tide, which are constantly working to move the boat. An invaluable tool for anglers to maintain a fixed position while fishing a wreck or reef, and for boaters who occasionally must wait for a bridge to open so they can pass.
Auto Stop On Arrival	The NavPilot 300 automatically stops the vessel at the destination waypoint. When combined with the Point Lock™ feature, Auto Stop On Arrival allows the vessel to maintain a fixed position at the destination waypoint.
SABIKI Lock™	Expands upon the NavPilot 300's SABIKI™ functionality by controlling both the rudder and throttle to maintain position, freeing the angler to focus 100% on jigging and other vertical fishing.


Display Options for Day and Night

Several types of graphic displays are available, allowing you to customize the data to suit your own preferences with either digital or analog graphics. The NAVpilot 300 and NAVpilot 711C feature a color day/night graphic display, giving you better sunlight viewability during the day, while not affecting your night vision when the sun goes down.

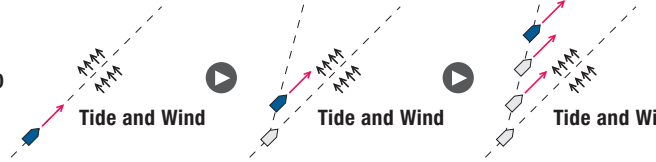


NAVpilot Offers Self-Learning and Adaptive Software

From the first dockside 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

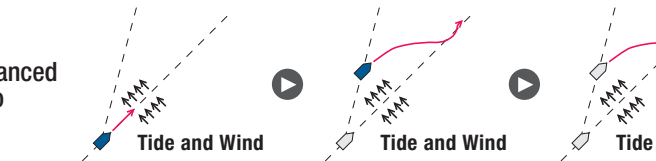


Tide and Wind Tide and Wind Tide and Wind

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




Advanced Auto

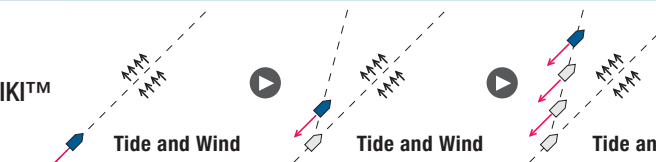


Tide and Wind Tide and Wind Tide and Wind

Maintains the desired heading while compensating for the effects of tide and wind.




SABIKI™

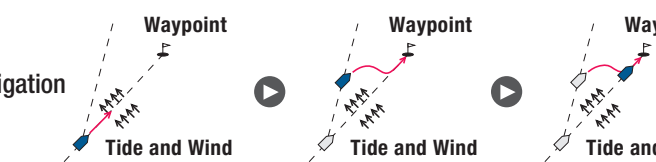


Tide and Wind Tide and Wind Tide and Wind

Maintains the desired heading astern while compensating for the effects of tide and wind. Speed is limited to 5 knots.




Navigation

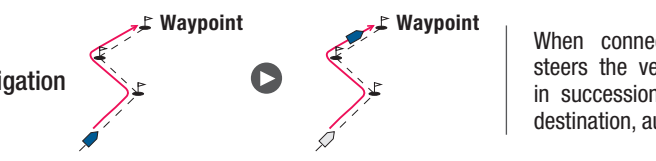


Waypoint Tide and Wind Tide and Wind Tide and Wind

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




Navigation

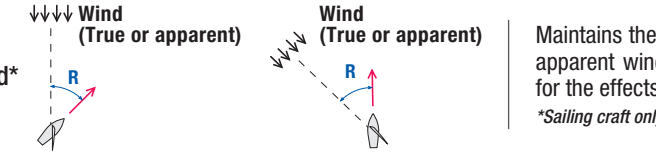


Waypoint Tide and Wind Tide and Wind Tide and Wind

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 or visual alerts are activated.



Wind*





Wind (True or apparent) Wind (True or apparent)

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

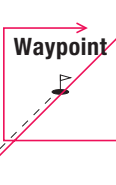
*Sailing craft only with proper wind data input

FishHunter™







Square




Waypoint




Zigzag



Waypoint



Orbit



Waypoint


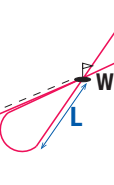



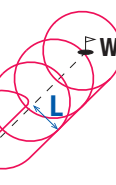
Figure 8



Waypoint



Spiral



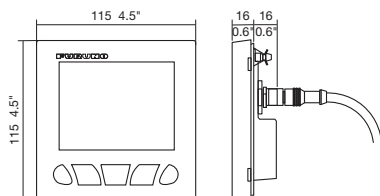
Waypoint

The NAVpilot will activate the FishHunter™ to perform various maneuvers around the target at a user-selected distance. The feature can also be used for Man Overboard (MOB).

NAVpilot -300

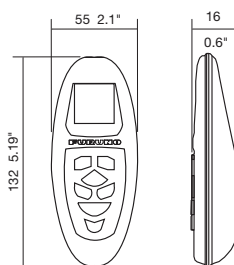
Control Unit FAP3011

0.25 kg 0.53 lb



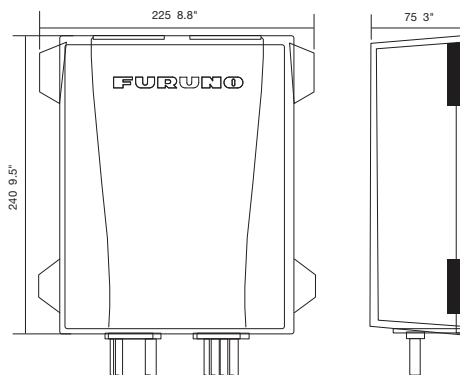
Gesture Controller GC001

0.12 kg 0.26 lb

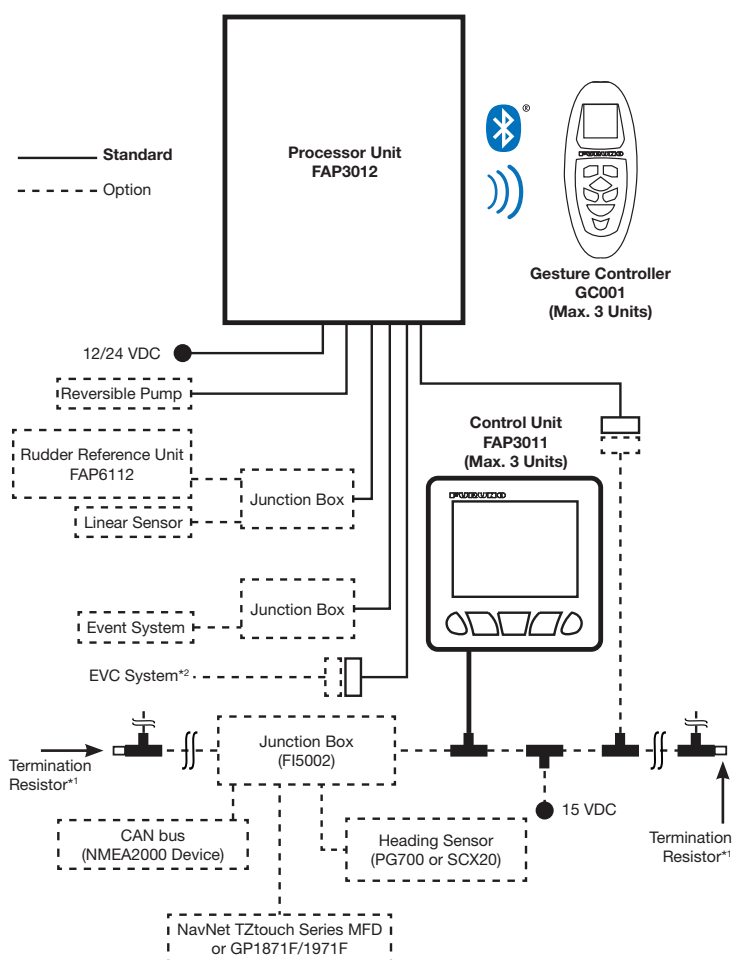


Processor Unit FAP3012

1.5 kg 3.3 lb



INTERCONNECTION DIAGRAM

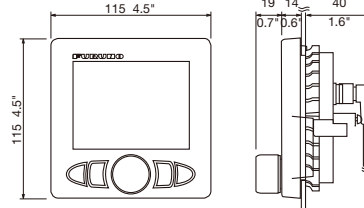


*1: Termination resistors must be installed at both ends of the backbone.
*2: YANMAR VC10, SEASTAR SOLUTIONS OPTIMUS

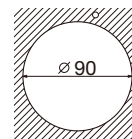
NAVpilot -711C

Control Unit FAP7011C

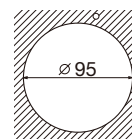
0.25 kg 0.53 lb



Cut-out for flush mount
(Wall thickness less than 10 mm)

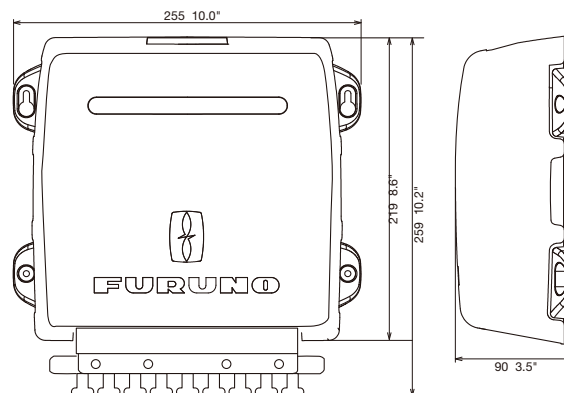


Cut-out for flush mount
(Wall thickness 10 to 20 mm)

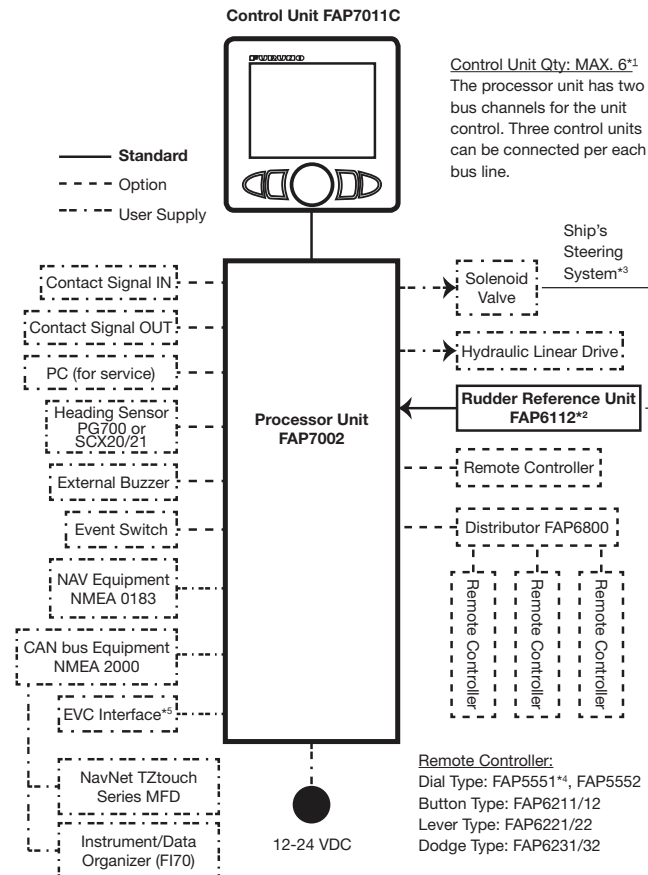


Processor Unit FAP7002

0.25 kg 0.53 lb



INTERCONNECTION DIAGRAM



Control Unit Qty: MAX. 6*
The processor unit has two bus channels for the unit control. Three control units can be connected per each bus line.

Remote Controller:
Dial Type: FAP5551*4, FAP5552
Button Type: FAP6211/12
Lever Type: FAP6221/22
Dodge Type: FAP6231/32

*1: Attach the terminator (type: BD-07AFFM-LR7001) to the port not used on the last control unit in the series.

*2: Not required for Fantum Feedback™.

*3: Not required for a EVC system equipped vessel.

*4: Connect one Dial-type Remote Controller FAP5551 to one Distributor FAP6800.

*5: YANMAR VC10, SEASTAR SOLUTIONS OPTIMUS

MODEL		NAVpilot 300	NAVpilot 711C
CONTROL UNIT			
Screen Size/Type		4.1" TFT color LCD	
Effective Display Area		82.56 (W) x 61.92 (H) mm	
Screen Resolution		320 x 240 dots (QVGA)	
Screen Brightness		700 cd/m ² typical	
Screen Contrast		8 steps	
PROCESSOR UNIT			
Steering Mode		STBY, Auto, Dodge, NFU (Non-follow up), Turn, SABIKI™, FishHunter™, Advanced Auto*, Navigation* *External data required	STBY, Auto, Dodge, Turn, Remote, SABIKI™, Advanced Auto*, Navigation*, Wind*, FishHunter™* *External data required
Weather Mode		--	Auto, Manual-Calm/Moderate/Rough
Rudder Gain		Auto/1-20 (Manual)	
Counter Rudder		Auto/0-20 (Manual)	
Trim Gain		Auto/1-20 (Manual)	
Trim Adjustment		-5° (port) to +5° (stbd)	--
Change Course Speed		1-20 deg/s	1-30 deg/s
Rudder Angle Settings		--	10-45 deg
Alarm		Heading deviation, Watch	Heading deviation, Cross-track error*, Ship's Speed*, Depth*, Water temperature*, Wind*, Watch, Log Trip* *External data required
Motor Drive		10 A continuous, 20 A for 5 seconds	25 A continuous, 50 A for 5 seconds
GESTURE CONTROLLER (NAVpilot 300 only)			
Screen Type/Resolution		1.28" Monochrome TFT LCD, 128 x 128 pixels	--
Communication Distance		10 m (depending on environmental conditions)	
INTERFACE			
Ports		NMEA2000 x1, CAN bus x1 (DBW control), Contact signal x3, Bluetooth (Gesture Controller)	NMEA0183 x2, CAN bus x1, Contact signal x2
Input	NMEA0183	--	AAM, APB, BOD, BWC, BWR, DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, ROT, RMB, RMC, THS, TLL, VHW, VTG, VWR, VWT, XTE, ZDA
	NMEA2000	059392/904, 060160/416/928, 061184, 065240, 126208/464/720/992/996, 127237/250/258, 128259, 129025/026/029/283/284/285/538, 130577/818/821/827/841	059392/904, 060928, 061184,126208/720/992/996, 127250/251/258/488/489,128259/267, 129025/026/029/033/283/284/285, 130306/310/311/312/313/314/577818/821/827/880
Output	NMEA0183	--	DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, RMB, RMC, ROT, RSA, VHW, VTG, VWR, VWT, ZDA
	NMEA2000	059392/904, 060928, 126208/464/720/993/996/998, 127237/245, 130816/821/822/823/827/841	059392/904, 060928, 061184, 126208/464/720/992/996, 127237/245/250/251/258, 128259/267, 129025/026/029/033/283/284/285, 130306/310/311/312/822/823/827
ENVIRONMENT			
Temperature		-15°C to +55°C	
Waterproofing		Processor Unit: IP55 Control Unit: IP56 Gesture Controller: IP65/67	Processor Unit: IP20 Control Unit: IP56
POWER SUPPLY			
Processor Unit		12-24 VDC 0.22 A max. (LEN: 2)	12-24 VDC: 4.0-2.0 A (control unit: 6 sets), excluding pump
Control Unit		15 VDC 0.29 A max.(LEN: 6)	--
Gesture Controller		VDC, Dry cell battery (AAA x2)	--
EQUIPMENT LIST			
Standard		Control Unit (FAP3011), Processor Unit (FAP3012), Gesture Controller (GC001), Installation Materials, Accessories, and Spare Parts	Control Unit (FAP7011C), Processor Unit (FAP7002), Rudder Reference Unit (FAP6112), Integrated Heading Sensor (PG700), Installation Materials and Spare Parts
Options		Control Unit (FAP3011), Gesture Controller (GC001), Bracket-mount Kits, Cables, Connectors, Junction Box, Pump Unit, Rudder Reference Unit	Control Units, Flush Mount Kits, Bracket-mount Kits, Cradle, Rudder Reference Units (FAP6112-200), Remote Controllers, Cables, Connectors, Junction Box, Pump Unit
FishHunter™ Drive - Refer to online flyer for more information			
Engine		Suzuki Outboards	DF140BG/115BG, DF200AP/175AP/DF150AP, DF300AP/250AP, DF350A/325A*/300B *Not Available in US
Autopilot		Supported Quantity	Maximum 4 units
Display Device		NAVpilot 300	
		NavNet TZtouchXL series – TZT10X/13X/16X/22X/24X ver. TBD NavNet TZtouch3 series – TZT9F/12F/16F/19F ver. TBD NavNet TZtouch2 series – TZTL12F/L15F/2BB ver. TBD GP1871F/1971F – ver. TBD SMD series – SMD7/9 ver. TBD and SMD12/16 ver. TBD	For active route output to SUZUKI engines, autopilot mode display, etc.
Navigation Data		Heading, position, and vessel speed sensors for autopilot control (MFD internal GPS does not meet all requirements, SCX20 recommended)	

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