FURUNO







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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
- ► Volvo Penta IPS, Yamaha Helm Master™, Yanmar, and Seastar VCS compatible
- Easy installation and smart network-based system configuration
- Waterproof Processing Unit (IP55) and Control Unit (IP56, IP65/67 for GC-001)
- Optional revolutionary SAFEHELM2 and POWER ASSIST brings unrivaled steering control and comfort to the helm

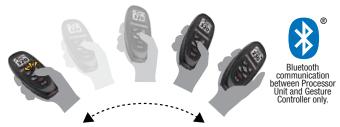
- Selectable "Economy" and "Precision" Navigation Modes combine adaptive technology, providing fuel and power savings of 2.5% or more*
- "Precision" provides tighter course keeping, within 0.01 NM of the set course
- Perfect for inboard or outboard power boats and sail boats (NAVpilot-711C only)
- Autopilot control available from NavNet TZtouch3/TZtouch2/TZtouch/GP-1871F/1971F
- ► NEW! FishHunter[™] Drive delivers new control features for boaters utilizing select Suzuki outboard models (NavPilot-300 only)





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!



New SAFEHELM2 Reimagines

The optional SAFEHELM2 and POWER ASSIST features provide a unique interface to the vessel's hydraulic hand steering system, providing unrivaled comfort and control of steering directly from any manual helm on the vessel. These two modes greatly reduce steering effort and enhance the safety of your autopilot. The POWER ASSIST mode incorporates the SAFEHELM2 concept and provides speed-based, power assisted steering, which greatly reduces manual helm effort in maneuvering situations. POWER ASSIST is a unique helm-activated assisted steering feature that can augment or replace separate electric and powerrobbing, engine-driven power steering systems on many vessels. POWER ASSIST reduces steering system complexity and costs while increasing fuel economy.

Compatible with EVC Engines

The NAVpilot-300/711C have the capability to work with Volvo Penta IPS* (drive versions C, D, or E type), Yamaha Helm Master™*, Yanmar 8LV engine systems**, and the Seastar Optimus360 Joystick **system.

* Requires the optional IF700IPS to connect with NAVpilot-300/711C.

** Required 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 controlling the rudder and throttle, countering the effect of wind and tide, which are constantly working to more the boat. An invaluable tool for anglers to maintain a fixe position while fishing a wreck or reef, and for boaters we 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 TM 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. | | | |

Autopilot Control from NavNet TZtouch Series and GP-1871F/1971F

Furuno's NAVpilot Series are designed to match the GPS Chart Plotter GP-1871F/GP-1971F, the NavNet TZtouch Series, and other Furuno navigation equipment. The Plug and Play CAN bus interface allows for easy installation and exceptional interfacing.



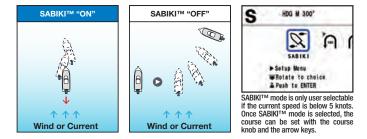


971F NAVpilot-300/711C

TZT19F

SABIKI™ Mode for 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.



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.



NECO HDG T 332° ABCDE FG 0.05 0.0

Highway Mode Day

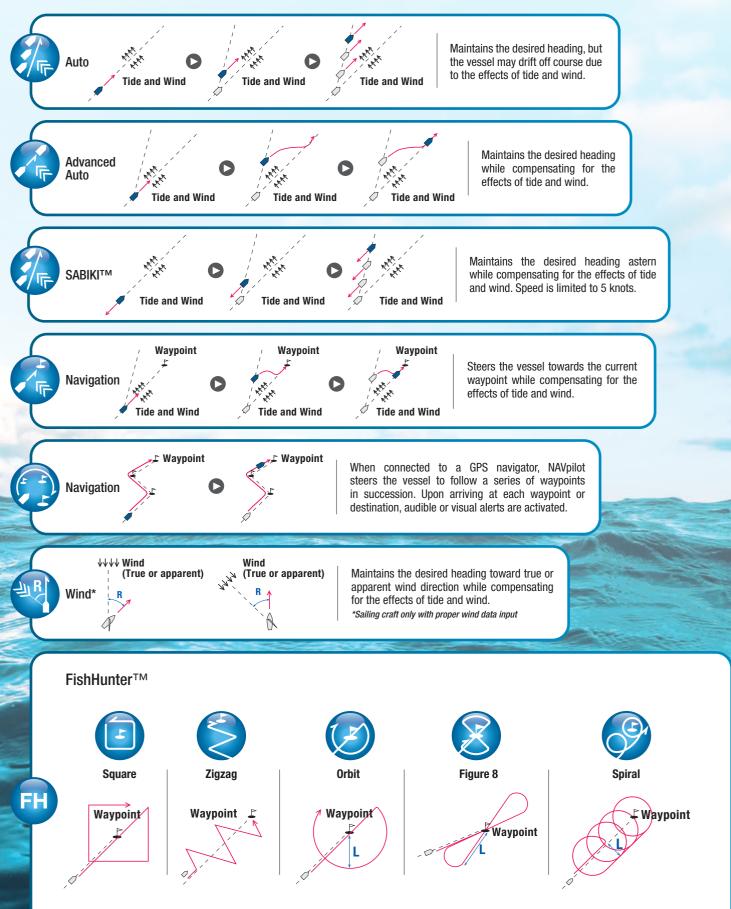
Highway Mode Night





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.



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

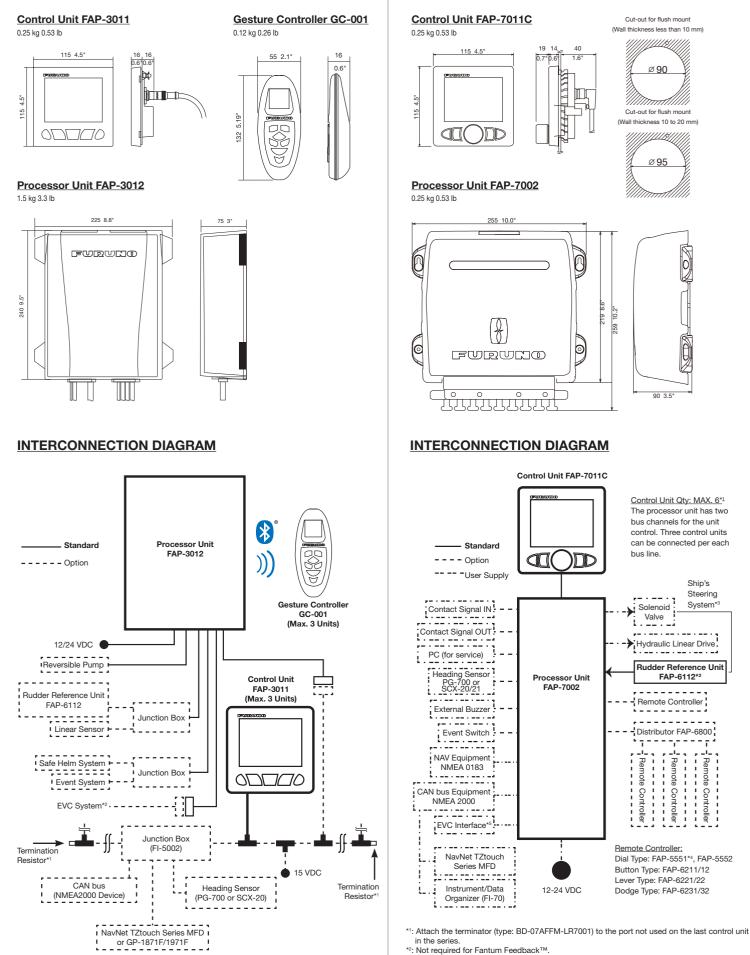
MAVpilot-300/711c

SPECIFICATIONS (Page 1 of 2)

FURUNO

NAVpilot-711C

NAVpilot-300



*1: Termination resistors must be installed at both ends of the backbone.

*2: VOLVO PENTA IPS, YAMAHA Helm Master, YANMAR VC10, SEASTAR SOLUTIONS OPTIMUS

*3: Not required for a EVC system equipped vessel.
 *4: Connect one Dial-type Remote Controller FAP-5551 to one Distributor FAP-6800.

*5: VOLVO PENTA IPS, YAMAHA Helm Master, YANMAR VC10, SEASTAR SOLUTIONS OPTIMUS

MAVpilot- 300/711C

SPECIFICATIONS (Page 2 of 2)

FURUNO

| MODEL | | NAVpilot-300 | | NAVpilot-711C | | | |
|---|---|--|---|--|---|--|--|
| CONTROL UNIT | | | | | | | |
| Screen Siz | 51 | 4.1" TFT color LCD | | | | | |
| | isplay Area | | | /) x 61.92 (H) mm | | | |
| Screen Res | | | | 40 dots (QVGA) | | | |
| Screen Brightness | | | | cd/m ² typical | | | |
| Screen Contrast | | 8 steps | | | | | |
| PROCESS | 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 Ga | iin | | Auto/ | /1-20 (Manual) | | | |
| Counter Ru | udder | | 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 An | gle 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 | E CONTROLLER (N | AVpilot-300 only) | | | | | |
| Screen Type/Resolution 1.28" Monochrome TFT LCD, 128 x 128 pixels | | | | | | | |
| Communication Distance 10 m (depending on environmental conditions) | | | | | | | |
| INTERFAC | CE | | | | | | |
| | | NMEA2000 x1, CAN bus x1 (DBW control), | | NMEA0192 v0. CAN bus v1. Content simply 0 | | | |
| Ports | | Contact signal x3, Bluetooth (Gesture Controller) | | NMEA0183 x2, CAN bus x1, Co | ontact signal x2 | | |
| | 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 | | | |
| Input | NMEA2000 | 059392/904, 060160/416/928, 061184, 065240, 126208/464/720/992/996, 127237/250/258, 128259, 129025/026/029/283/284/285/538, 130577/818/821/8 | 27/841 | 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 | | | |
| | NMEA0183 | | 21/011 | DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, RMB, RMC, ROT, RSA, VHW, VTG, VWR, VWT, ZDA | | | |
| Output | 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 | | | | | |
| ENVIRON | | | | | | | |
| Temperatu | re | | -15 | °C to +55°C | | | |
| Waterproof | U U U U U U U U U U U U U U U U U U U | Processor Unit: IP55 Control Unit: IP56 Gesture Controller: IP65/67 | | Processor Unit: IP20 Control Unit: IP56 | | | |
| POWER S | 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 Un | | 15 VDC 0.29 A max.(LEN: 6) | | | | | |
| Gesture Co | ontroller | VDC, Dry cell battery (AAA x2) | | | | | |
| EQUIPME | INT LIST | | | | | | |
| Standard | | Control Unit (FAP-3011), Processor Unit (FAP-3012), Gesture Controller (GC-001), Installation Materials, Accessories, and Spare Parts | | Control Unit (FAP-7011C), Processor Unit (FAP-7002), Rudder Reference Unit (FAP-6112), Integrated Heading Sensor (PG-700), Installation Materials and Spare Parts | | | |
| | | Control Unit (FAP-3011), Gesture Controller (GC-001), | | Control Units, Flush Mount Kits, Bracket-mount Kits, Cradle, | | | |
| Options | | Bracket-mount Kits, Cables, Connectors, Junction Box, Pump | | Rudder Reference Units (FAP61 | 12-200), | | |
| Options | | Unit, Rudder Reference Unit, FPS8 Power Steering Module, Volvo Interface Kit, YAMAHA HM Gateway | | Remote Controllers, Cables, Connectors, Junction Box, Pump Unit, FPS8 Power Steering Module, Volvo Interface Kit (FAP-6300) | | | |
| | | | | | | | |
| FishHunte | er [™] Drive - Refer to | online flyer for more information | | | | | |
| Engine | | Suzuki Outboards | | | 75AP/DF150AP, DF300AP/250AP, | | |
| | | | | DF350A/325A*/300B *Not Available in US | | | |
| | | Supported Quantity | | Maximum 4 units | | | |
| Autopilot | | NAVpilot-300 | | | | | |
| | | NavNet TZtouch3 series – TZT9F/12F/16F/19F ver. TBD | | | | | |
| | | NavNet TZtouch2 series – TZTL12F/L15F/2BB ver. TBD GP-1871F/1971F – ver. TBD SMD series – SMD7/9 ver. TBD and SMD12/16 ver. TBD For active route output to SUZUKL engines, autopilot mode display, etc. | | | | | |
| Display De | vice | SMD series - SMD7/9 ver. TBD and SMD12/16 ver. TB | | play etc | | | |
| Display De | vice | | | play, etc. | | | |
| Display De | | SMD series - SMD7/9 ver. TBD and SMD12/16 ver. TB | node disp pilot contr | rol | Catalog No. CA000001880 B-2212LB | | |
| | | SMD series – SMD7/9 ver. TBD and SMD12/16 ver. TE For active route output to SUZUKI engines, autopilot n Heading, position, and vessel speed sensors for autop | node disp pilot contr | rol | - | | |
| | | SMD series – SMD7/9 ver. TBD and SMD12/16 ver. TE For active route output to SUZUKI engines, autopilot n Heading, position, and vessel speed sensors for autop | node disp pilot contr | rol | - | | |
| Navigation | Data | SMD series – SMD7/9 ver. TBD and SMD12/16 ver. TE For active route output to SUZUKI engines, autopilot n Heading, position, and vessel speed sensors for autop (MFD internal GPS does not meet all requirements, SC | node disp pilot contr CX-20 rec | rol ommended) | B-2212LB | | |
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