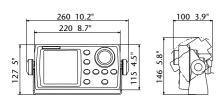
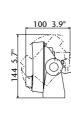
SPECIFICATIONS		NAVpilot-700	NAVpilot-711	NAVpilot-720	
CONTROL UNIT					
Display		Monochrome LCD			
Effective Display Area		85.2 (W) x 85.2 (H) mm	85.2 (W) x 43.6 (H) mm		
Pixel Number		160 x 160 dots	160 x 80 dots		
Backlight		8 steps			
Contrast		16 steps			
PROCESSOR UNIT					
Rudder Angle Adjustment		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, THS, TLL, VTG, VHW,			
		VWR, VWT, XTE, ZDA			
		(CAN bus) 059392,059904, 060928, 126208, 126992, 126996, 127250, 127251, 127258, 127488, 127489, 128259, 128267, 129026,			
		129029, 129033, 129284, 129285, 130306, 130310, 130311, 130577, 130312, 130313, 130314, 130577			
Output		(nmea0183) dbt, dpt, gga, gll, gns, hdg, hdm, hdt, mtw, mwv, rmb, rmc, 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	IP20			
	Other unit	IP56			
POWER SUPPLY 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			
Options		Control Units, Flush Mount Kits, Hanger Kits, Cradle, Rudder Reference Units FAP6112-200*,			
		Remote Controllers, Cables, Connectors, Junction Box, Pump Unit, FPS8 Power Steering Module			

NAVpilot-700 Control Unit (Bracket-mount) FAP-7001 0.9 kg 1.9 lb



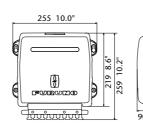
NAVpilot-711 Control Unit (Bracket-mount) FAP-7011 0.52 kg 1.15 lb



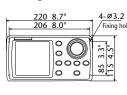


NAVpilot-720

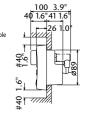
**Processor Unit** FAP-7002 1.9 kg 4.2 lb

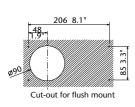


#### NAVpilot-700 Control Unit (Surface-mount)



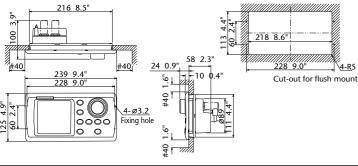
0.62 kg 1.4 lb



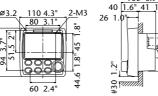


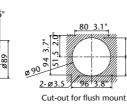
## NAVpilot-700 Control Unit (Flush-mount)

0.64 kg 1.4 lb 216 8.5"



0.34 kg 0.75 lb

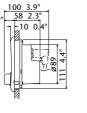


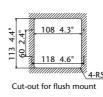


#### NAVpilot-711 Control Unit (Flush-mount) 0.35 kg 0.77 lb

NAVpilot-711 Control Unit (Surface-mount)

4-Ø3.2 129 5.1"





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## FURUNO



NAVpilot-700/711/720

# AUTOPILOT



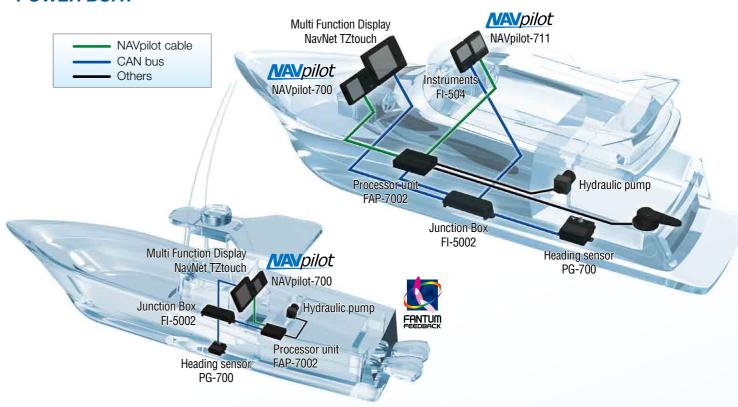
# Kick back, relax and let NAVpilot steer you to your destination!

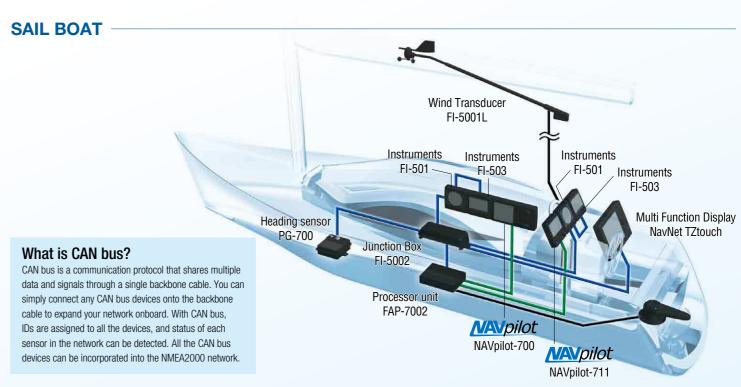


- ► Furuno Fantum Feedback allows for no physical rudder feedback unit for a streamlined installation and precise course control
- Optional revolutionary SAFE HELM and POWER ASSIST brings unrivaled steering control and comfort at the helm\*
- ➤ Selectable "Economy" and "Precision" Navigation Modes combine adaptive technology providing fuel and power savings of up to 2.5% or more.\*\*
- ► "Precision" XTE accuracy: within 0.003 nm
- ► Simplified activation set-up by on-screen wizard
- ► Perfect for inboard or outboard power boats and sail boats
- ► Simple one-touch mode selection enables flexible steering and course control
- \* Required Options HRP11 or HRP17 Pump and FPS8 Power Steering Module
  \*\* Based on Furuno testing and \*Scenarios for a Clean Energy Future 2000" U.S.
  Department of Energy (www.ornl.gov/sci/eere/cef)



#### **POWER BOAT**







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

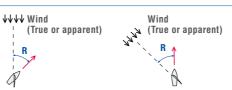


#### Wind mode\*



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 sailing craft only. Wind data input is required.



#### **Furuno Fantum Feedback**



Furuno's all-new "Fantum Feedback" NAVpilot software clears the path to a simplified installation, while also delivering enhanced steering control. With Fantum Feedback, NAVpilot outboard installations no longer require use of a physical rudder feedback unit.

This streamlined installation, combined with Furuno's unique adaptive learning Autopilot technology, provides unmatched outboard Autopilot performance. Fantum Feedback is a menu-selectable feature available in the latest NAVpilot-700 series software. This new software was developed and extensively tested on a wide variety of outboard vessels with hydraulic steering and reversing pump control. Fantum Feedback achieves precise course control, from slow trolling speeds to high-speed cruising, utilizing a newly developed, time-based rudder gain process, rather than traditional rudder angle based control.













## New SAFE HELM and POWER ASSIST features provide **Efficient and Effective Helm Steering Control**



The optional SAFE HELM and POWER ASSIST features\* provide a unique interface to the vessel's hydraulic hand steering system, providing unrivaled comfort and control of the vessel's steering directly from any manual helm on the vessel. These two modes greatly reduce steering effort and enhance the safety of your vessel's autopilot. \*Required Options - HRP11 or HRP17 Pump and FPS8 Power Steering Module

#### SAFE HELM

The SAFE HELM temporarily switches the NAVpilot to manual steering for a specified time interval, taking it out of an automatic steering mode (AUTO, NAV, etc.) After the time interval has elapsed, SAFE HELM is deactivated and the previous automatic steering mode is restored.

#### POWER ASSIST

The POWER ASSIST incorporates the SAFE HELM 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 and possibly replace separate electric and power-robbing, engine-driven power steering systems on many vessels. POWER ASSIST reduces steering system complexity and costs while increasing economy.

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

Various display options to customize data to suit your own preferences using a variety of digital and analogue graphics.

#### Display modes for NAVpilot-700

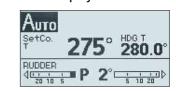






User Customizable Display

#### Display modes for NAVpilot-711/720





User Customizable Display

#### **FishHunter**

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 to perform square, zigzag, circle, orbit, spiral or figure eight maneuvers around the specified target at a user selected distance. This feature can also be used for Man Overboard (MOB).





