

RACE, CRUISE OR FISH EVOLUTION WILL TAKE COMMAND

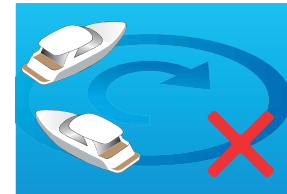
Evolution Technology

The culmination of Raymarine autopilot expertise, FLIR Systems' R&D, and advanced aerospace guidance technology, Evolution Ai control algorithms deliver a new level of accurate autopilot control.

Evolution Ai™ – Autopilot Intelligence

Evolution autopilots perceive their environment and instantly calculate and evolve steering commands to maximize performance. The result is precise and confident course keeping, regardless of vessel speed or sea conditions.

Why you need Evolution



Automagic™

- No lengthy calibration procedures to perform
- No compass calibration required
- Plug and play connections



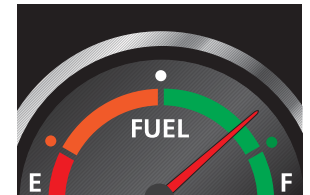
Easy to install

- Freedom from the restrictions of conventional heading sensors
- EV sensor core can be installed above or below deck
- Install upsidedown or off the vessel's centreline



Aerospace Technology

9-axis precision monitoring of pitch, roll, yaw and heading

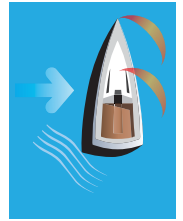
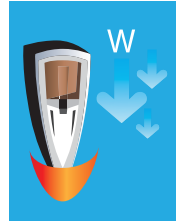


Fuel Efficient

Evolution autopilots steer so accurately they will save fuel and get you to your destination faster

Evolution perfect on all points of sail

- Downwind with kite up
- Beam reach with quartering sea
- Upwind in short chop



Easily selectable performance modes



Race Performance

When only the best will do. Razor sharp course keeping. Fine-tuned for racers!



Cruising Performance

Superb course keeping and crisp turns in all conditions – the Raymarine skippers choice



Leisure Performance

For relaxed boating, when soaking up the sun is more attractive than precise course keeping

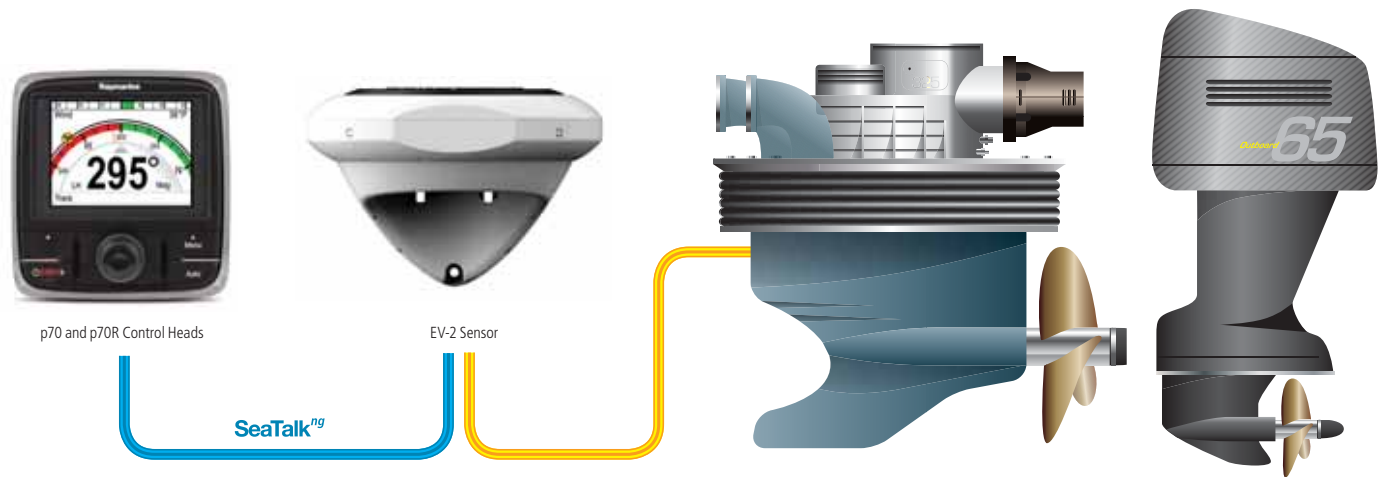


EV-2 for Drive-by-Wire Propulsion

EV-2 has been designed for the latest drive-by-wire steering systems and connects directly to Raymarine's SeaTalk^{ng} bus. EV-2 also has a dedicated CAN Bus port for direct connection to steer-by-wire steering systems – such as ZF Pod Drives, Yamaha Helm Master, Volvo IPS* and SeaStar Solutions Optimus systems.

A single CAN Bus connection to the EV-2 eliminates the need for an Autopilot Control Unit (ACU), further simplifying installation.

* Use a Raymarine ECI-100 Universal Control and Engine Interface for a quick and easy install.

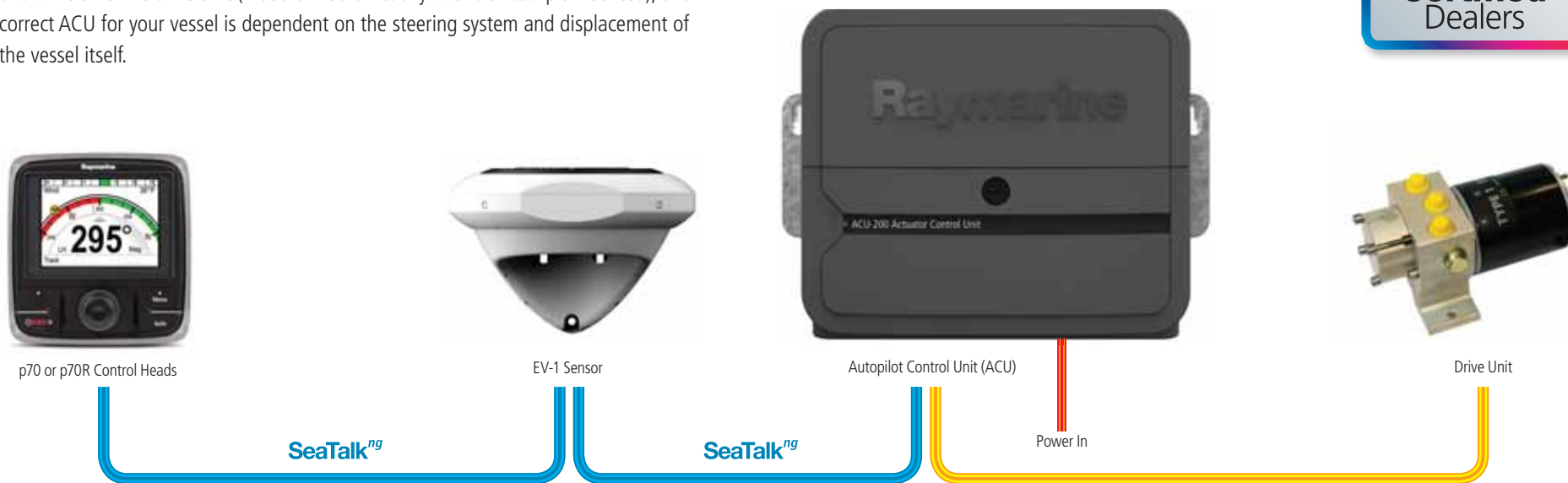


Drive-by-Wire Partners: • SeaStar Solutions (Optimus 360 and Optimus eps) • Volvo Penta • ZF • Yamaha Helm Master

EV-1 Cockpit and Inboard Autopilots

EV-1 autopilots consist of a Control Head, EV-1 Sensor, Autopilot Control Unit (ACU) and drive unit. The drive unit (inboard mechanical/hydraulic or cockpit mounted), and correct ACU for your vessel is dependent on the steering system and displacement of the vessel itself.

For more information about Evolution, visit our website www.raymarine.com or contact your Raymarine dealer



Fishing Patterns

Fishing patterns are available when the p70 and p70R control heads are used with Evolution.

Flexible Control

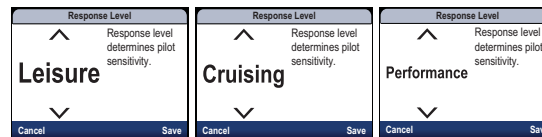
Control Evolution from the p70/p70R control heads or direct from your Raymarine MFD.





Autopilot Control

Complete your Evolution autopilot system with a p70 or p70R autopilot control head. The p70 and p70R feature vibrant color displays and are powered by Raymarine's intuitive LightHouse user interface. LightHouse organises all options into simple menu structures, so with Evolution's Automagic 3-step setup process you will be up and running in minutes.



p70 Control Head

Designed for sailing yachts, the p70 offers simple 1 and 10 degree direct course changes at the touch of a button.

p70R Control Head

Features a rotary dial control for power boaters. Use the rotary dial for menu and course changes or activate power steer mode and steer manually right from the p70R.

MFD Pilot Control

Evolution pilots can also be controlled from aSeries, cSeries, eSeries and gS Series Raymarine multifunctional displays (MFD).



THE EVOLUTION AUTOPILOT RANGE

Cockpit Autopilots

EV-100 autopilots are installed in the cockpit of tiller and wheel steered yachts and smaller power boats. An EV-100 system consists of an EV-1 Sensor, ACU-100 Autopilot Control unit, drive unit and control head. The following table lists the cockpit pilots and their vessel suitability.



COCKPIT AUTOPILOTS						
Cockpit Pilot Description	Maximum Displacement	Vessel Type	Pack Contents			
			EV	ACU	Control Head	Drive
EV-100 Wheel	7,500kg (16,000lbs)	Sail	EV-1	ACU-100	p70	Wheel Drive
EV-100 Tiller	6,000kg (13,200lbs)	Sail	EV-1	ACU-100	p70	Tiller Drive
EV-100 Power	3,181kg (7,000lbs)	Power	EV-1	ACU-100	p70R	0.5L Hydraulic Pump

Inboard Autopilots

The Evolution inboard range consists of autopilot packs designed to suit specific vessel types, steering systems and vessel displacements. Autopilot pack selection is, therefore, determined by:

1. The type of steering system installed on your vessel
2. Hydraulic steering systems; the pump has to be matched to the ram (in cc)
3. The size and displacement of your vessel – always take the fully laden displacement of your vessel into account (often 20% above the designed displacement)

With this information, the correct pack for your vessel can be selected from the table (right).



INBOARD AUTOPILOTS						
Drive Units	RAM Capacity cc / cu in (Hydraulic)	Vessel Displacement kg / lbs	Autopilot Control Unit			
			EV-100	EV-200	EV-300	EV-400
Type 0.5L Hydraulic Pump	50–150 / 3–9	NA	●			
Type 1 Hydraulic Pump	80–230 / 4.9–14	NA		●		
Type 1 Mechanical Rotary / Linear Drives		11,000 / 24,000		●		
Type 1 Universal Stern Drives		NA		●		
Type 2 Hydraulic Pump	230–350 / 14–21	NA				●
Type 3 Hydraulic Pump	350–500 / 21–30.5	NA				●
Type 2 Hydraulic Linear		22,000 / 48,000				●
Type 3 Hydraulic Linear		35,000 / 77,000				●
Type 2 Short Mechanical Linear Drives		15,000 / 33,000				●
Type 2 Long Mechanical Linear Drives		20,000 / 44,000				●
Type 2 Mechanical Rotary Drives		20,000 / 44,000				●
Solenoid Drive Units		NA			●	
ZF Saildrive Systems		NA				●

Raymarine Evolution Autopilots work with...



aSeries



cSeries and eSeries



g5 Series



Instruments



ST1000/ST2000 Tillerpilots. Go to www.raymarine.com