Simrad Autopilots are attractive, sophisticated and technically perfect, winning 39 NMEA awards since 1983.
Compact design, fully featured...

The all new AP24 combines space saving design with state of the art auto steering, making it the perfect choice when space is at a premium. A new SimNet plug & play network, provides simplified installation and enhanced integration with other Simrad products.

- Complete set of Turn Patterns – including Depth Contour Tracking, programmable S-turn, Zig-Zag, Continuous turn, Square patterns and many more.
- Improved steering algorithms – full Rate Of Turn (ROT) control provides smooth and precise turns in any condition and improves tack and gybe performance on sailboats.
- No Drift Course – Maintain set Course Over Ground even in severe wind and current conditions.

Installation & Integration

The AP24 utilizes the Simrad Intelligent Marine Network – SimNet, which features plug and play operation and Slim Line connectors for easy cable routing, so you’ll be up and running in very little time.

The ability to ‘daisy chain’ SimNet instruments in any order allows you to use the most efficient cable runs possible when installing the equipment.

Virtual Rudder Feedback

This unique feature, recently introduced to Simrad autopilots means that no rudder feedback unit is needed for outboards and stern drive boats. In terms of installation, you will save a huge amount of time and aggravation thanks to this sophisticated new feature.

Automatic Tuning

The AP24 include a number of self calibrating features that automatically compensate for the unique handling characteristics of your boat and sea conditions, insuring optimum performance without the need for expert manual calibration.
Simrad engineering ensures that you can always go to sea in the confidence that your Autopilot is pin-point accurate and highly reliable. The AP24 boasts state of the art technology so you know you'll be safe, you know you'll hit your waypoints and you know that you'll arrive on time. But what about en-route? What can the AP24 do for you?

Contour Steering
This unique Simrad feature utilizes data from your fishfinder or depth instrument to maintain a set water depth, just as if you were manually steering your boat along depth contours on a paper chart. This leaves you free to concentrate on the big catch, enjoy the shoreline view or trim your sail.

Advanced Wind Steering
The AWS feature provides unbeatable autopilot performance for any sailing vessel. AWS is ideal for single-handed sailing or racing. Utilizing wind and GPS data simultaneously, it is possible to hit long distance waypoints dead-on, without deviating from the original course line or build-up of significant cross track error.

Rate Of Turn Control
The AP24 is equipped with advanced control algorithms that enable smooth and precise turns regardless of sea conditions. This feature also improves tack and gybe performance on sailboats.

Data Pages
The AP24 includes a number of data pages where you can view autopilot parameters such as compass heading, set course, rudder position, as well as information received from other SimNet compatible equipment such as GPS navigation data and IS20 wind, depth and speed data.

Multi-Station Operation
Expanded multi-station compatibility offers several control options including use of the AP28 control unit. Any future autopilot control units will also work thanks to the SimNet system.

Control Options
Simrad offers a range of extra display and control options for the AP24:
- AP24 Second Control Unit
- IS20 RUDDER Display
- IS20 COMPASS Display
- JS10 NFU Joystick
- R3000X NFU Remote Control
- AT10 NMEA 0183 to SimNet converter(s)
- WR20 Wireless Remote Control

The Brains Behind the Brawn
The new compact SimNet enabled AC12 & AC42 autopilot computers are more powerful than ever and include all of the control functions expected from a Simrad autopilot. Both models are compatible with Hydraulic and Mechanical steering systems.
Technical specifications

AP24 Autopilot System

- Multi-language display ✓
- Transreflective matrix LCD display 130x79 pixels
- Dedicated mode keys Stby, Auto, + soft keys
- Rotary course knob
- 1° keys Dedicated/Selectable D
- 10° keys Dedicated/selectable D
- Instrument data pages ✓
- Analog graphics
- Remote station lock ✓
- Button power steering ✓
- Follow-Up power steering ✓
- Rudder angle barograph ✓
- DODGE: Return to last or new heading ✓
- Heading capture ✓
- Automatic turn patterns ✓
- Depth Contour Tracking DCT™ ✓
- WR20 Remote Commander compatible ✓

Advanced Wind Steering ✓
Automatic Tack and Gybe inhibit ✓
Wind Trim adjust ✓
Automatic adjust of steering parameters ✓
Response control ✓
Boat type preset ✓
Autotune ✓
Multiple stations ✓
Off course alarm ✓
Wind shift alarm ✓
Shallow alarm ✓
Overload alarm ✓
SimNet interface and control ✓
Virtual Rudder Feedback VRF™ ✓
Volvo Penta IPS interface ✓
Multiple data source input ✓
Multiple NMEA0183 interface via AT10 ✓

Autopilot computer specifications

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>Motor current continuous/peak</th>
<th>Clutch/bypass current</th>
<th>Solenoid output</th>
<th>Weight Kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC12</td>
<td>10-31VDC</td>
<td>B/12 Amperes</td>
<td>3 Amperes</td>
<td>1.3 (2.9)</td>
</tr>
<tr>
<td>AC42</td>
<td>10-31VDC</td>
<td>80/90 Amperes</td>
<td>3 Amperes</td>
<td>2.8 (6.2)</td>
</tr>
</tbody>
</table>

Drive unit specifications

<table>
<thead>
<tr>
<th>RPU80</th>
<th>RPU160</th>
<th>RPU300</th>
<th>MSD50</th>
<th>DD15</th>
<th>HLD350</th>
<th>HLD2000L</th>
<th>HLD2000LD</th>
<th>SD10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>12*</td>
<td>12*</td>
<td>12/24</td>
<td>12*</td>
<td>12 only</td>
<td>12*</td>
<td>12*</td>
<td>24</td>
</tr>
<tr>
<td>Current (Amps) 12V battery</td>
<td>2.5 – 6</td>
<td>3 – 10</td>
<td>5 – 20</td>
<td>0.8 – 2</td>
<td>1 – 4</td>
<td>2.5 – 6</td>
<td>3 – 10</td>
<td>2.5 – 7</td>
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<tr>
<td>Current (Amps) 24V battery</td>
<td>2.5 – 12</td>
<td>2.7 – 12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram capacity cm³</td>
<td>80 – 250</td>
<td>160 – 550 9.8</td>
<td>290 – 960 17.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram capacity (inch³)</td>
<td>4.9 – 15.2</td>
<td>8.5</td>
<td>17.7</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Max. Pressure</td>
<td>50 bar</td>
<td>50 bar</td>
<td>50 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boat Length / displacement kg (lbs)</td>
<td>35 – 50 ft</td>
<td>60 – 70 ft</td>
<td>190 (7.5)</td>
<td>200 (8.0)</td>
<td>340 (13.3)</td>
<td>340 (13.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stroke mm (inch)</td>
<td>190 (7.5)</td>
<td>200 (8.0)</td>
<td>340 (13.3)</td>
<td>340 (13.3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peak thrust kg (lbs)</td>
<td>60 (132)</td>
<td>350 (776)</td>
<td>500 (1,100)</td>
<td>1050 (2,310)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Max. Torque Nm (lb.in)</td>
<td>1,370 (12,000)</td>
<td>570 (5,400)</td>
<td>1,460 (15,900)</td>
<td>4,180 (46,000)</td>
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<tr>
<td>Tiller arm mm (inch)</td>
<td>250 (9.8)</td>
<td>175 (6.9)</td>
<td>298 (11.7)</td>
<td>298 (11.7)</td>
<td>364 (14.3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autopilot Computer</td>
<td>AC12</td>
<td>AC42</td>
<td>AC42</td>
<td>AC12</td>
<td>AC12</td>
<td>AC42</td>
<td>AC42</td>
<td>AC42</td>
</tr>
</tbody>
</table>

* The Autopilot computer transforms the battery voltage to the correct drive unit voltage

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