FURUNO®

MaxSea
MARINE SOFTWARE

Compatible with all versions of
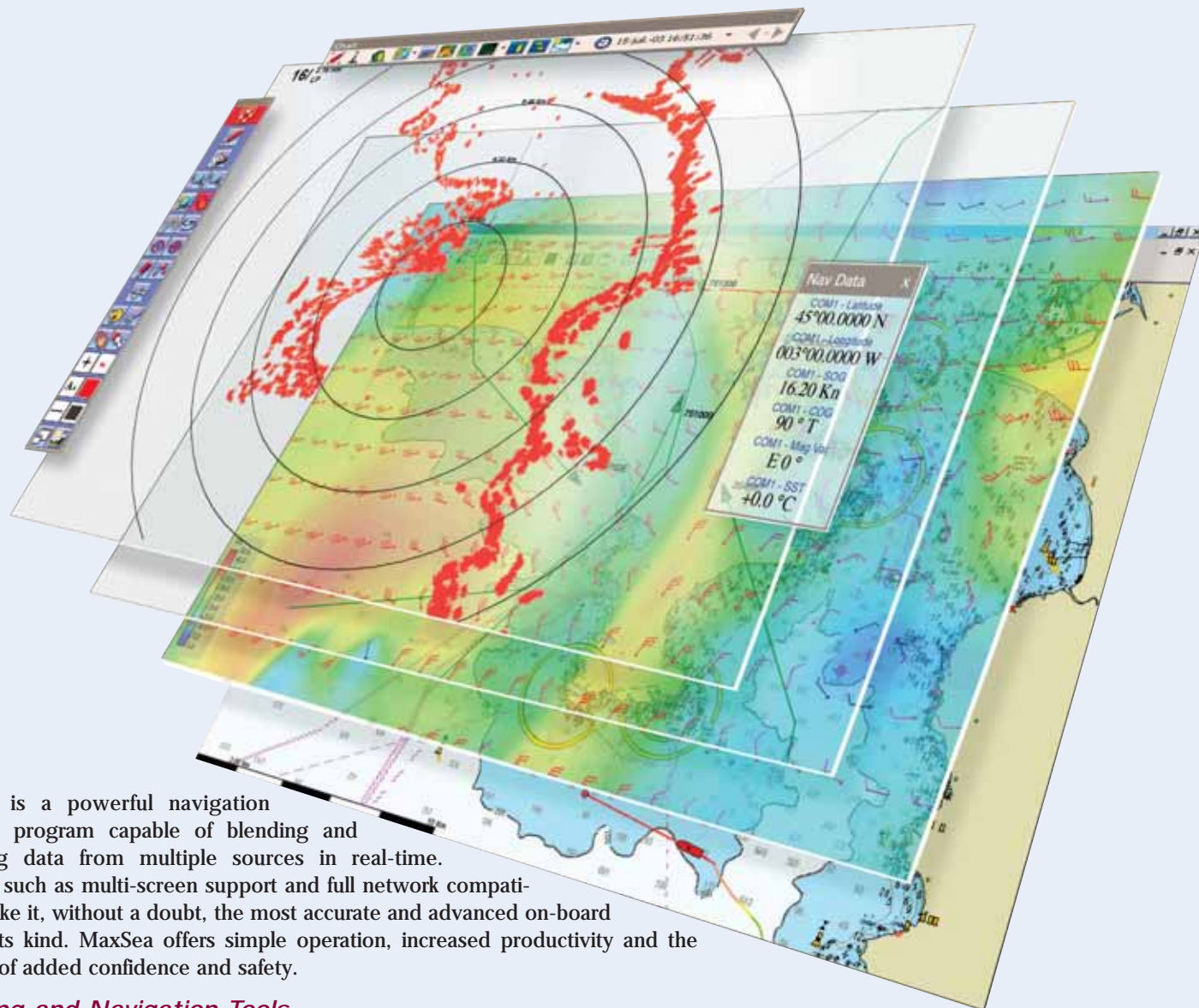
NAVnet®

State-of-the-art Marine Software that is easy to use!

MaxSea is a powerful navigation software program capable of blending and analyzing data from multiple sources in real-time. Features such as multi-screen support and full network compatibility make it, without a doubt, the most accurate and advanced on-board tool of its kind. MaxSea offers simple operation, increased productivity and the comfort of added confidence and safety.

Planning and Navigation Tools

Whether you are heading for a short day-trip or an extended cruise, planning is the key to a successful voyage. MaxSea offers a variety of planning and navigational tools that are packed with features, while remaining easy to use.

- ➤ Tidal height, speed & direction data
- ➤ Unlimited waypoints & routes
- ➤ ETA & Time to go calculator
- ➤ Track recording color using input data
- ➤ Navigation logbook
- ➤ Day, dusk and night color palettes

- ➤ Overlay FREE up-to-date ocean conditions & weather forecasts
- ➤ Multiple inputs for GPS, wind sensors, nav equipment, etc.
- ➤ North Up/Course Up/Head Up chart orientation
- ➤ Unlimited simultaneous user data layer access
- ➤ Compatible with multiple monitors
- ➤ Full multi-user network capabilities

Unique Overlay System

The unique overlay system in MaxSea optimizes data from both the core MaxSea software and NavNet sensors when you are using the MaxSea-NavNet Software. Using the multiple overlay system, various layers of information can be superimposed on the screen. Each overlay can contain different types of data, such as: tracks, marks, hazards, wrecks, pots, currents, water temperature, Radar targets, depth sounder data, and more. Based on your needs at the moment, a single click can make each layer either visible or invisible — eliminating irrelevant information and clearly showing only the data you require.

Since 1985, MaxSea Marine Navigation Software has been the world's favorite PC based electronic charting program. Now, Furuno has partnered with MaxSea to produce MaxSea-NavNet, the most powerful navigation system available! Whether you are in need of stand-alone PC charting or want to integrate it with your NavNet system, we have the perfect solution!

MaxSea-NavNet

Combining NavNet information with MaxSea's charting capabilities creates a dramatic improvement in accuracy & clarity and gives you an amazingly detailed image. With MaxSea-NavNet, you get all of the features of MaxSea software, plus the added bonus of being able to interface it with your NavNet system to gather data from all of the network sensors. Get GPS/WAAS positioning, Fish Finder or Depth Sounder data, Radar targets and even utilize your current C-MapNT chart card library directly from NavNet's high-speed Ethernet network.

MaxSea-NavNet comes in two versions, NavNet-Commander and NavNet-Explorer. Both versions include all of the features in their MaxSea counterparts, but they also allow you to take full control of your NavNet display, such as radar range, gain, sea clutter control and more. Plan your routes and waypoints in advance on your PC and transfer them easily to your NavNet. Other capabilities such as ARPA Radar and AIS target tracking can be monitored by NavNet-Commander when optional equipment is installed or interfaced to your NavNet system.
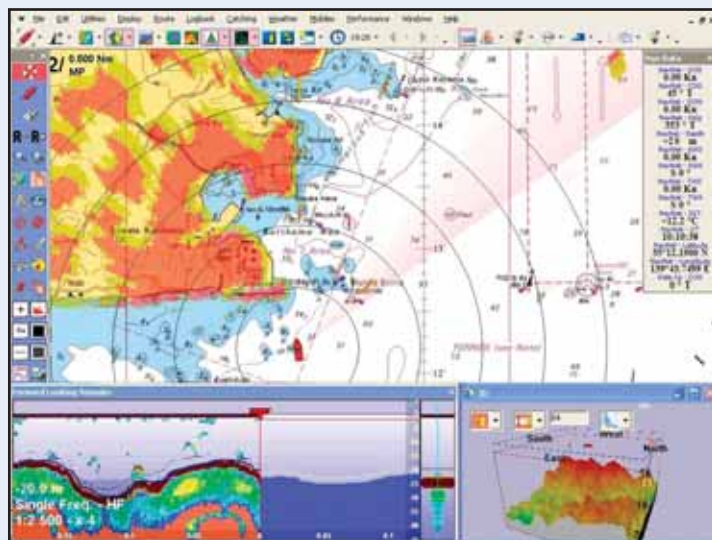
Furuno's Ethernet Certified network allows you to transfer information between your NavNet and PC. Utilize your C-MapNT chart library from your NavNet card slot and you will be amazed at how fast the redraw rate is on your PC.

Features

➤ **Compatible with NavNet vx2 and NavNet1**
(Note: some features may not be available on NavNet1)

➤ **NavNet Data Exchange - Waypoints, Routes, Time, L/L, SOG, COG**

➤ **Overlay radar targets onto chart (requires heading sensor)**

➤ **Utilize C-MapNT charts from NavNet to PC via Ethernet network**

➤ **Seamless electronic chart navigation and plotting using raster, vector and 3D Bathymetric charts**

➤ **Display fish finder data from Network Sounder**

➤ **Forward Looking Depth Profile (FLDP)***

➤ **Simultaneous 2D and 3D electronic chart viewing***

➤ **Continuously update 3D chart data utilizing Personal Bathymetric Generator (PBG) and Network Sounder****

➤ **Optional Mobiles Module allows you to display ARPA, AIS and fish buoys when optional equipment is installed†**

*Standard with NavNet-Explorer and optional for NavNet-Commander
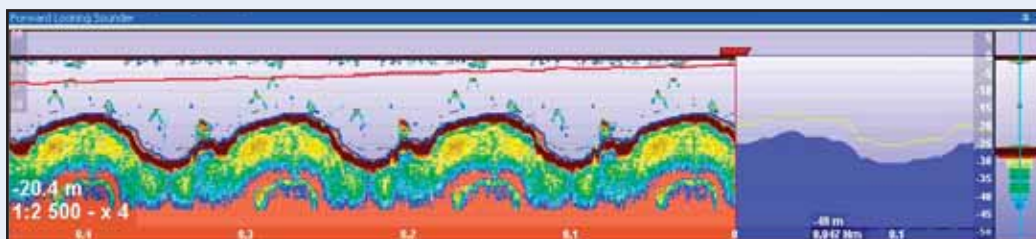**Standard with NavNet-Explorer and not available for NavNet-Commander
†AIS targets requires an AIS receiver to be connected

With MaxSea-NavNet you can bring NavNet network information directly onto your PC. This split screen display shows radar targets being overlayed onto a chart, a Forward Looking Depth Profile and a 3D presentation of the seabed.

The Forward Looking Depth Profile utilizes the NavNet Network Sounder to compare real-time sounder returns to known bathymetric data forward of your vessel. This effectively allows the captain to see the bottom ahead of the boat to avoid shallow water.

When the PBG module is active in Explorer, you can monitor real-time updating of bathymetric data in a 2D perspective.

Commander

MaxSea Commander is powerful enough to satisfy the most demanding captain, yet intuitive enough to provide information for the entire crew. Plan your next trip in advance from the comfort of your own home, use it on board for real-time tracking and recording of your route, or add on additional modules to create your custom navigation package.

Explorer

The absolute cream of the crop in PC Navigation — that's the concept behind Explorer! Whether you use it for Cruising, Sport Fishing, Commercial Fishing, Sailing, or Workboat Operations, it represents the ideal intersection of high technology with practical seamanship. It takes all of the very best of the Commander package and expands upon it with some of the most incredible features you'll ever see in any marine navigational software.

Features

➤ Seamless electronic chart navigation/plotting using raster or vector and 3D Bathymetric charts

➤ Raster Charts - MapTech®; MapMedia®; Softchart®; ARCS®; NDI/Digital Ocean®

➤ Vector Charts - C-MapNT®; C-Map CM-93® & S-57®

➤ 3D Bathymetric Charts - MapMedia® *

➤ North Up/Course Up/Head up chart orientation

➤ Unlimited simultaneous user data layer access

➤ Track recording color using input data

➤ Unlimited waypoints and routes

➤ Worldwide tidal data showing tidal height

➤ Navigation logbook software module

➤ FREE up-to-date ocean conditions and weather forecasts

➤ 2D/3D presentation, plus Forward Looking Depth Profile*

➤ PBG (Personal Bathymetric Generator)**

➤ Optional Mobiles Module allows you to display ARPA, AIS and fish buoys when optional equipment is installed[†]
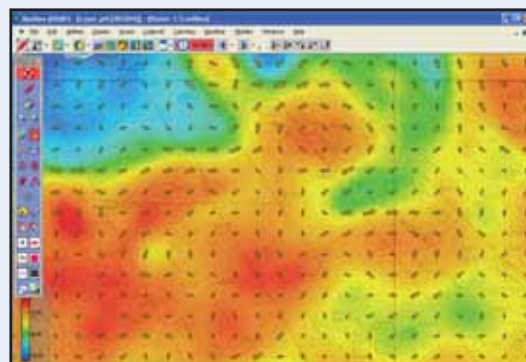
*Standard with Explorer and optional for Commander

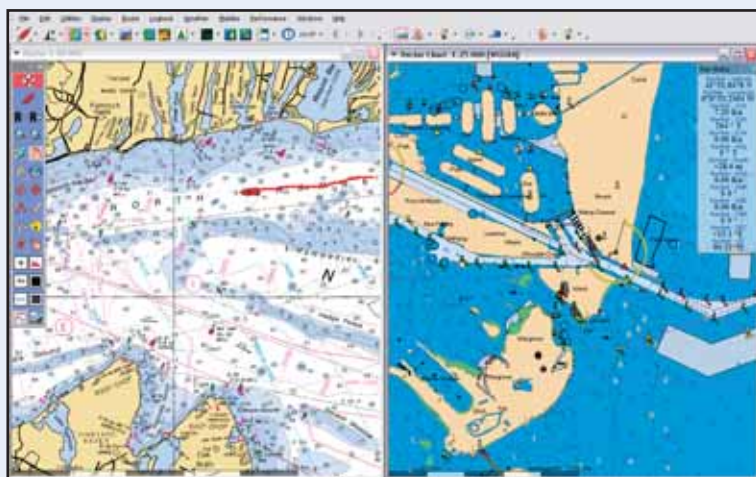**Standard with Explorer and not available for Commander

†AIS targets requires an AIS receiver to be connected

With Explorer's exclusive PBG (Personal Bathymetric Generator), your 3D charts are continuously updated with data from your own depth sounder, giving an incredibly accurate view of the bottom. You can now find previously unknown pinnacles and obstacles where bait fish collect without wasting time guessing.

FREE ocean and weather forecasts can be displayed on the chart as a valuable route plotting aid. Wind, waves, currents, pressure and sea surface temperature (SST) data is available anytime via compressed Email.

Unsurpassed Chart Capability

All MaxSea products provide the widest electronic chart support in the industry. Raster, vector and 3D bathymetric charts from a wide range of publishers are available, ensuring that you are using the best charts available for your area. Commander and Explorer's advanced chart management system seamlessly displays the best chart available for any scale. It provides a flexible over-zoom and under-zoom capability so that you can view valuable navigation information. You can even display multiple windows with both raster and vector charts at different ranges.

Display both raster and vector charts on the screen simultaneously to get all the information that is available for where you are navigating.

A d d - o n   M o d u l e s

The true power of MaxSea Commander and Explorer is their flexibility to be customized. With specific add-on modules you will be able to build a software package that meets your specific needs and budget.

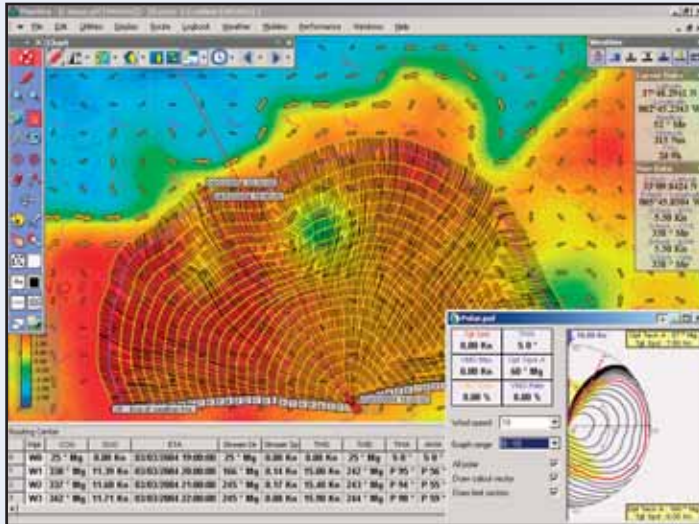### *Mobiles Module* *(Available for Commander and Explorer)*

The Mobiles Module allows Commander and Explorer to display ARPA (Automatic Radar Plotting Aids), AIS (Automatic Identification System) targets and fish buoy tracking. When connected to a system that is equipped with ARPA or AIS, you will be able to display their targets with a vector for each course overlaid on your navigation screen. MaxSea interfaces with all ECDIS and NMEA compliant serial connections and pilot ports.

2D/3D Module *(Optional for Commander, Standard with Explorer)*

The 2D/3D Module has the ability to seamlessly display both raster and vector charts from many sources, allowing you to use the best charts available anywhere you are fishing. The ability to overlay sea surface temperature and ocean current forecasts directly on to these charts with an incredibly accurate 3D display of the bottom contour and structures minimizes the time it takes to find where the big game fish are likely to be feeding.

When MaxSea or MaxSea-NavNet is connected to an AIS receiver, you will be able to track multiple AIS targets to gather information on each vessel. Use your PC keyboard as an MKD to send an AIS message to other AIS equipped vessels.

Sailing Performance Module
(Optional for Commander and Explorer)

The Performance Module adds powerful tools for sailing vessels, including upwind and downwind laylines displayed on the chart (continuously corrected for changes in true wind direction and current), and advanced manipulation of performance data. It not only gives you the information you need for optimal sailing, but also the ability to accurately predict upcoming conditions based on the analysis and identification of trends in wind speed, wind direction and barometric pressure.

Weather Routing Module *(Optional for Commander and Explorer)*

The Routing Module is the most advanced on-board weather routing system available. Since 1986, every winner of the Volvo Around the World/Whitbread, BOC and Vendee Globe Races, has used this powerful tool to help them win. MaxSea uses weather forecasts and the performance characteristics of your individual boat to calculate the fastest way to reach your destination.

The Weather Routing Module is not only for racing applications, but also aids cruising sailors in navigating safely by avoiding strong winds.

Ground Discrimination Module *(Optional for Explorer only)*

Along with seeing the shape of the ocean floor in great detail, MaxSea can also show you what it consists of: gravel, sand, silt, etc. giving you comprehensive bottom discrimination and seabed classification when connected to a third party ground discrimination unit. Built-in presets allow you to quickly identify the type of ground you are over, plus you can configure MaxSea for custom seabed classifications depending on the species you are fishing. (Requires 3rd party hardware)

MaxShell Module *(Optional for Commander, Standard with Explorer)*

MaxShell delivers the awesome power of MaxSea PC-based navigation wrapped in plotter-like simplicity, by insulating you from the unfriendly eccentricities of the Windows operating system. MaxShell insures simplicity, reliability, automatic backup and security.

PBG (Personal Bathymetric Generator) *(Standard with Explorer only)*

With MaxSea Explorer's exclusive PBG (Personal Bathymetric Generator), your 3D charts are continuously updated with data from your own depth sounder, giving an incredibly accurate view of the bottom. You can now find previously unknown pinnacles and obstacles where bait fish collect without wasting time guessing. (See photo - opposite page)
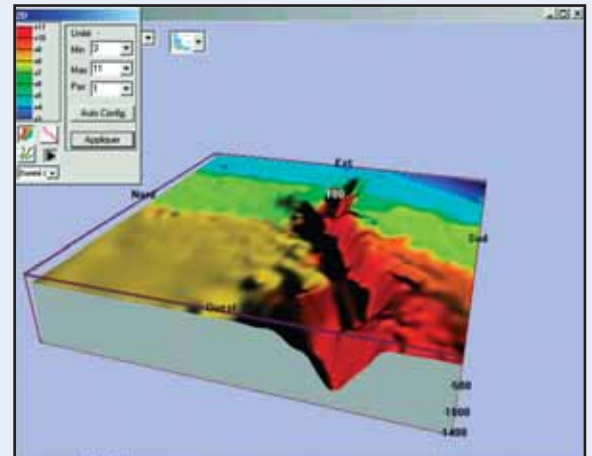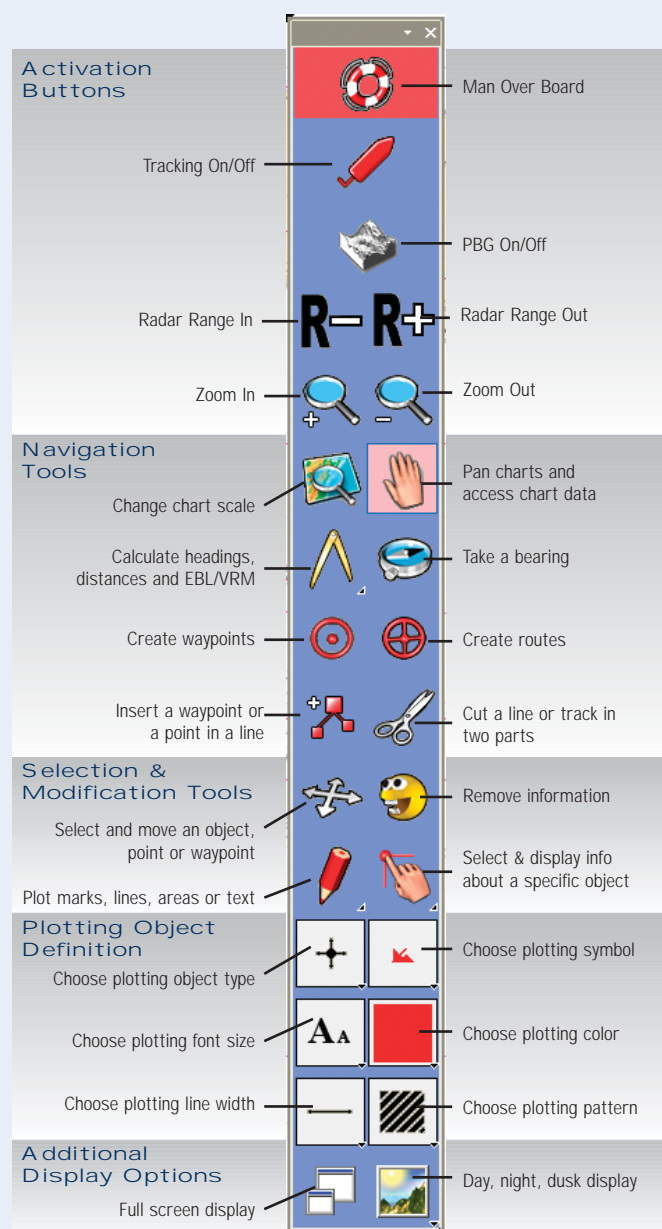
With the Ground Discrimination Module, you can head for your favorite spot and assign a color to match the exact bottom type you are searching for, telling you when to drop your fishing gear.
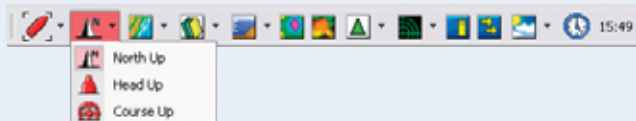
The Tool Palette

The graphical tool palette makes the software even more user-friendly. The palette can be customized. Use large or small buttons, display all functions or only those essential to navigation, fishing, or the specific task at hand. Even configure the tool palette to suit your specific needs:

➤ **According to onboard conditions**
   (number of crew, sea conditions, state of emergency, etc.)
➤ **According to your skill level, personal preference**
   and comfort zone

Activation Buttons
- Man Over Board
- Tracking On/Off
- PBG On/Off
- Radar Range In
- Radar Range Out
- Zoom In
- Zoom Out

Navigation Tools
- Change chart scale
- Pan charts and access chart data
- Calculate headings, distances and EBL/VRM
- Take a bearing
- Create waypoints
- Create routes
- Insert a waypoint or a point in a line
- Cut a line or track in two parts

Selection & Modification Tools
- Select and move an object, point or waypoint
- Remove information
- Plot marks, lines, areas or text
- Select & display info about a specific object

Plotting Object Definition
- Choose plotting object type
- Choose plotting symbol
- Choose plotting font size
- Choose plotting color
- Choose plotting line width
- Choose plotting pattern

Additional Display Options
- Full screen display
- Day, night, dusk display

The Chart Palette

A few clicks is all it takes to display the chart in North Up/Course Up modes and to call up tide, current, weather, radar and depth profile.

- North Up
- Head Up
- Course Up

MaxSea Commander & Explorer Features

Standard Features	Commander	Explorer
Waypoints/Routes/Autopilot exchange	•	•
Seamless electronic chart navigation/plotting	•	•
Simultaneous 2 dimensional (2D) and 3 dimensional (3D) electronic chart viewing and manipulation	optional	•
Personal Bathymetric Generator (PBG)	n/a	•
Ground Discrimination Software module (requires 3rd party hardware - SeaScan/RoxAnn)	n/a	optional
Advanced unlimited simultaneous user data layer access	•	•
Loran TD display	•	•
Track recording	•	•
Advanced event recording	•	•
Worldwide Tidal Data (tidal height)	•	•
Navigation Logbook Software module	•	•
Weather Overlay Software module	•	•
Mobiles module (ARPA, AIS, GPS Buoys) & AIS Minimum Keyboard Display (MKD)	optional	optional
MaxShell Windows Desktop Manager Software	optional	•
Worldwide Electronic Planning Chart (MapMedia CD300)	•	•

NavNet-Commander & NavNet-Explorer Features

Standard Features	Commander	Explorer
NavNet data exchange (Time, L/L, SOG, COG, etc.)	•	•
Radar Overlay	•	•
Fish finder echoes	•	•
Forward Looking Depth Profile	optional	•

System Requirements

Your PC must meet the following system requirements in order to work with MaxSea and MaxSea-NavNet. Please verify these requirements before installing.

➤ Windows 2000 SP4 or XP
➤ 800 MHz processor (1GHz and faster recommended)
➤ CD-ROM drive - for installing software and charts
➤ Serial or USB port(s) - for connecting navigation equipment
   (An adapter must be used for USB connection - non-NavNet version only)
➤ Parallel or USB port for hardware key
➤ 700 MB of hard drive space
➤ Graphic card: 32MB (64MB recommended) - Compatible with DirectX9
➤ Ethernet 10/100 Base-T connection
➤ Memory requirements

Operating	System Memory
Windows® 2000	64 MB (256 MB Recommended)
Windows® XP	128 MB (512 MB Recommended)

➤ Note about system requirements:
   For the best performance we advise you to follow the "recommended" guidelines. MaxSea and MaxSea-NavNet are advanced software programs which make good use of faster computers with more memory.