

Call Now! 01179 114111



MARINE ELECTRONIC SERVICES LTD

Marine Electronics Buyer's Guide 2011

NEW FOR 2011

GARMIN GPS & SOUNDERS

Garmin unveil their GPSMap62 & GPSMap78 series handheld GPS and the new echo range of fishfinders



PAGES
3,8

THE PC & AIS SPECIALISTS

DigitalYacht introduce a range of exciting products for 2011, including the new Digital Deep Sea Commercial AIS systems



PAGE
39

RACING NAV SYSTEM

B&G ZEUS Z8 & Z12



PAGE
12

Performance sailing equipment specialist B&G release their combis designed specifically for racing yachts!

AFFORDABLE SAT-TV

INTELLIAN i1 - i6 SAT TV



PAGE
52

Even the smallest boats can enjoy HD satellite TV with Intellian!

AIS MOB SYSTEM

ECHAPILOT easyRESCUE

This radical new personal MOB SART uses the AIS system to alert nearby vessels of your location.



PAGE
27

PLUS 100'S OF OTHER GREAT PRODUCTS INSIDE!

THIS GUIDE FEATURES JUST A SMALL SELECTION OF OUR FULL RANGE OF OVER 6,000 PRODUCTS VISIT OUR ONLINE SHOP AT WWW.MESLTD.CO.UK FOR THE LATEST PRICES AND SPECIAL OFFERS

THE MARINE ELECTRONICS BUYER'S GUIDE 2011

Welcome to our latest Buyer's Guide with hundreds of exciting new products including radars, plotters, autopilots, instruments and satellite communications. Over the past 23 years, Marine Electronic Services Ltd has grown to become Europe's leading specialist marine electronics supplier. Our philosophy of expert advice, a passion for customer service and competitive prices offers a winning combination – unmatched by any of our competitors.

Our specialist advice and an unbiased selection make choosing the right electronics for your application even easier. Plus, our well stocked showrooms offer the biggest selection ever and the ability to compare products from the world's leading manufacturers. Most importantly, our team don't just answer the phone – they provide solutions and expert knowledge

Plus, with installation and service facilities in the UK and Europe, we're your first choice for a professional installation. Our office in Poole will look after all your South Coast installation needs and if you can't find an office close to you, take advantage of our mail order and export facilities – fast despatch to anywhere in the world at globally competitive prices. The choice is yours - call in, call up or click on our online store www.mesltd.co.uk - your route to a better marine electronics solution.

Finally, remember that what you see here is just a selection of our 6000+ product line – if it works on wires and fits on boats, then we like to think we do it!!

Good Boating!

NICHOLAS HEYES
Managing Director



CONTENTS

Garmin	3
Lowrance	10
Simrad	12
B&G	13
Northstar	13
NASA Marine	14
Raymarine	15
Humminbird	20
Geonav	21
Furuno	22
Echopilot	26
Echomax	28
Moerer	28
Installation & Commissioning Services	29
Multifunction Display Comparison	30
Tacktick	32
Navionics	33
C-Map by Jeppesen	36
Marine PC Information	38
DigitalYacht	39
Digital Deep Sea	44
Ocean Signal	45
McMurdo	46
MB Quart	47
Scanstrut	48
KVH	50
Intellian	51
Icom	54
Standard Horizon	56
Shakespeare	57
Marine Pod	58



© 2011 Marine Electronic Services Ltd. The information in this catalogue is correct at the time of going to press, using specifications supplied by the manufacturers. However, products are constantly being updated, hence MES can accept no responsibility for any errors in the description of any of the products featured in this catalogue.

CALL NOW! 01179 114111 • sales@mesltd.co.uk • www.mesltd.co.uk

Handheld Navigation

GARMIN eTREX H

Handheld GPS

WAAS GPS with an ultra-accurate, high sensitivity receiver.

KEY FEATURES

- Compact 100x50mm waterproof unit, weighs only 170g
- Up to 17hrs battery life
- 500 waypoint storage with graphic icons

ALSO AVAILABLE

- eTrex - basic model
- eTrex Summit - altimeter and electronic compass
- eTrex Legend - World city database, 1Mb memory, chartsource compatible



GARMIN GPS72H

Handheld GPS

This rugged GPS features a high sensitivity receiver for faster signal acquisition. WAAS enabled, waterproof and it floats! Also available as marine bundle pack with marine mounting bracket, 12v cigarette lighter cable and carrying case.

KEY FEATURES

- 500 waypoints, 50 routes
- Alarms
- Trip computer
- Auto track log, 10 saved tracks
- Course and speed filtering
- Built-in celestial tables



GARMIN DAKOTA 10 & 20

2.6in Handheld Touchscreen Chartplotter

Entry-level touchscreen handheld with high-sensitivity GPS with HotFix™ satellite prediction, and a worldwide basemap. Durable and waterproof, Dakota is built to withstand the elements and makes outdoor navigation simple with an easy to use interface. 850Mb internal memory.

KEY FEATURES

- 20hrs battery life (2 x AA)
- 1000 waypoints, 50 routes, 10,000 track points
- Automatic turn by turn routing on roads
- Optional mapping for detailed roads
- Chartsource and BlueChart g2 Vision compatible
- Supports geocaching GPX files
- Custom points of interest
- Inbuilt hunting/fishing calendar, sun and moon info
- Dakota 20 - microSD™ card slot, tilt compensated 3-axis compass, barometric altimeter, wireless data transfer, also accepts OS mapping



GARMIN OREGON 450 & 550

3in Handheld Touchscreen Chartplotter

Rugged, lightweight and waterproof to IPX7, the Oregon range features a high sensitivity WAAS GPS, an easy-to-use interface and is ideal for both marine and land use with turn by turn routing on roads, a barometric altimeter and a tilt-compensated 3-axis electronic compass.

KEY FEATURES

- 16hrs battery life (2 x AA)
- 850Mb memory
- USB and NMEA0183 compatible
- Wireless data transfer
- Oregon450 - 1000 waypoints, 50 routes
- Oregon550 - 2000 waypoints, 200 routes
- 10,000 track points, 20 saved tracks
- Internal basemap
- Chartsource and BlueChart g2 Vision compatible
- Supports geocaching GPX files
- Inbuilt hunting/fishing calendar, sun and moon information and tide tables
- Oregon450t & 550t - Preloaded with topographic charts
- Oregon550/550t - 3.2 megapixel camera with autofocus, 4x digital zoom



GARMIN GPSMap62 & GPSMap62S

Handheld GPS Chartplotter

This rugged and waterproof unit combines high-precision accuracy with high functionality to brave the demands of any terrain. The GPSMap62 features a 2.6in sunlight-readable colour screen with built-in worldwide basemap with shaded relief. The GPSMap62S adds an electronic compass, barometric altimeter, a microSD card slot for loading additional maps, unit-to-unit transfer functionality and high speed USB interface.

KEY FEATURES

- 1.7Gb internal memory
- Add marine, topographic and road maps
- High sensitivity, high precision GPS receiver
- Photo navigation - download pictures from Garmin Connect™ Photos and navigate to them
- Compatible with Custom Maps - transform your own paper and electronic maps into downloadable maps
- USB (high speed on 62S) and NMEA0183 interface
- 20hr battery life, uses 2 x AA batteries
- 2,000 waypoints, 200 routes, 10,000 track points, 200 saved tracks

NEW FOR 2011



GARMIN GPSMap78 & GPSMap78S

Handheld GPS Chartplotter

The rugged GPSMap78 features crisp colour mapping, high-sensitivity receiver, moulded rubber side grips plus a microSD card slot for loading additional maps. The GPSMap78S adds an electronic compass, barometric altimeter, unit-to-unit transfer functionality and high speed USB interface.

KEY FEATURES

- Inbuilt worldwide basemap
- Waterproof and floats
- 1.7Gb internal memory
- Add marine, topographic and road maps
- Supports BirdsEye satellite imagery (subscription required)
- Compatible with Custom Maps - transform your own paper and electronic maps into downloadable maps
- USB (high speed USB on GPSMap78S) and NMEA0183 interface
- 20hr battery life, uses 2 x AA batteries
- 2,000 waypoints, 200 routes, 10,000 track points, 200 saved tracks

NEW FOR 2011



GARMIN GPSMap620

5.2in Colour Touchscreen Marine/Automotive Chartplotter

Full-featured marine chartplotter with a high resolution 800x400 pixel WVGA touchscreen and featuring an automotive mode when loaded with optional City Navigator NT road charts. Preloaded with worldwide satellite basemap of shorelines and other surface features. Marine mode provides 3D "mariner's eye view" above the waterline, "fish eye view" below the waterline and Auto Guidance technology that searches chart data to suggest the best passage with optional BlueChart g2 Vision data. With serial and USB interfaces.

KEY FEATURES

- Turn-by-turn voice prompts
- 1500 waypoints, 50 routes (marine mode)
- 1000 waypoints, 10 routes (automotive mode)
- 10,000-point auto track log
- AIS and DSC compatible
- Optional remote antenna
- Inbuilt tide and celestial tables
- Optional flush mount kit

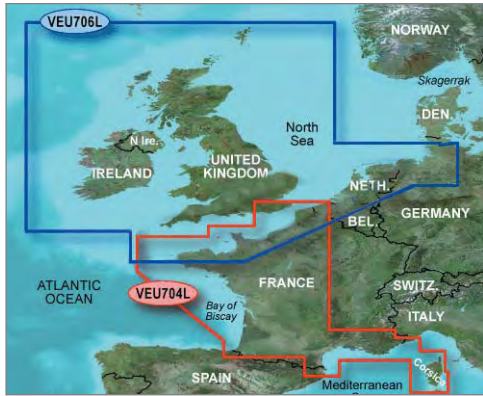
SUPPLIED WITH

Preloaded worldwide satellite basemap, marine mount with integrated vehicle power cable, lithium-ion battery pack, AC charger, USB cable, protective cover



Turn to the back page for pricing and ordering info NOW!

BLUECHART g2 & g2 VISION UK, Ireland, France Large



BLUECHART g2 & g2 VISION Mediterranean Large



BLUECHART g2 & g2 VISION Nordic Large



BLUECHART g2 & g2 VISION Canada West Large



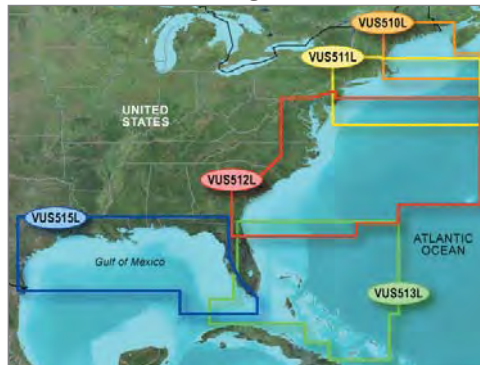
BLUECHART g2 & g2 VISION Canada East Large



BLUECHART g2 & g2 VISION USA West Coast Large



BLUECHART g2 & g2 VISION USA East Coast Large



BLUECHART g2 & g2 VISION USA Gulf of Mexico Large



BLUECHART g2 & g2 VISION USA Alaska Large



BLUECHART g2 & g2 VISION USA Great Lakes Large



BLUECHART g2 & g2 VISION Caribbean Regular



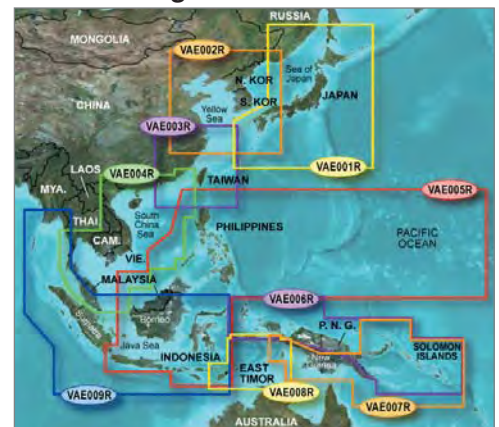
BLUECHART g2 & g2 VISION Australia Regular



BLUECHART g2 & g2 VISION New Zealand Regular



BLUECHART g2 & g2 VISION Asia East Regular



Please note that this is just a small selection of the full Bluechart coverage - please call us for assistance if the cruising area you require is not shown here.



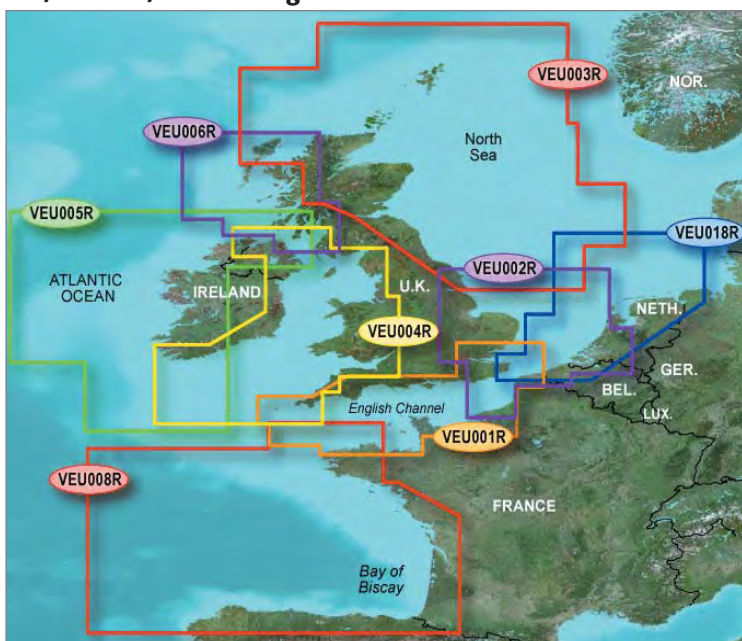
We accept most major credit and debit cards



Cartography, Chartplotters & Chartsounders

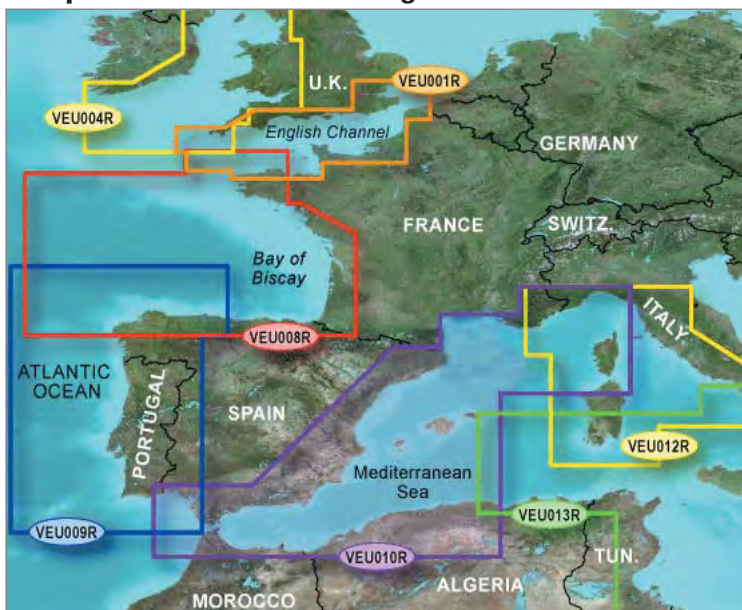
BLUECHART g2 & g2 VISION

UK, Ireland, France Regular



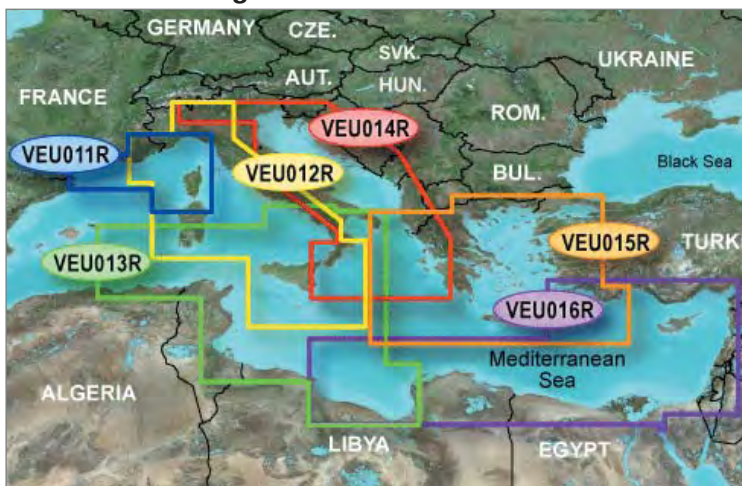
BLUECHART g2 & g2 VISION

Europe South Atlantic Coast Regular



BLUECHART g2 & g2 VISION

Mediterranean Regular



GARMIN GPSMap4x1/4x1S

4in Colour Chartplotter/Fishfinder

Available as a chartplotter (Map4x1) or a combination chartplotter/fishfinder (Map4x1S), this unit features an ultra-bright 4in colour QVGA display. The GPSMap4x1s comes with powerful dual frequency or dual beam sonar to clearly paint depth contours, fish targets, structure, etc. It's also CANet capable, allowing sounder data to be shared with other plotter displays on your boat.



KEY FEATURES

- **GPSMap421** - Satellite-enhanced 3D worldwide basemap
- **GPSMap431** - Also preloaded with US inland lakes maps
- **GPSMap441** - Also preloaded with US coastal maps
- **GPSMap451** - Also preloaded with UK coastal maps
- **S** models include dual frequency or dual beam sounder
- Upgradeable to BlueChart g2 Vision cartography with optional plug in card
- Simple user interface for easy operation
- Simplify navigation with Auto Guidance
- Now NMEA2000 compatible

GARMIN GPSMap5x1/5x1S

5in Colour Chartplotter/Fishfinder

This chartplotter (Map5x1) or combination chartplotter/fishfinder (Map5x1S) offers all the features of the GPSMap4x1 series, but with a larger ultra-bright 5in colour QVGA display.



KEY FEATURES

- **GPSMap521** - Satellite-enhanced 3D worldwide basemap
- **GPSMap531** - Also preloaded with US inland lakes maps
- **GPSMap541** - Also preloaded with US coastal maps
- **GPSMap551** - Also preloaded with UK coastal maps
- **S** models include dual frequency or dual beam sounder

ALL MODELS SUPPLIED WITH

Internal GPS antenna (optional external antenna), unit cover, tilt/swivel mount, cables, transducers sold separately

Turn to the back page for pricing and ordering info NOW!

GARMIN GPSMap4000 SERIES

8.4in, 10.4in & 12.1in Colour Combination Displays

These powerful combi displays combine video-quality resolution and luminous colour with the latest sensor and data options. Worldwide satellite imagery enhances the standard vector basemap format, add the optional BlueChart Vision card for high-resolution aerial reference photos which help in navigating tricky harbours and channels or locating places such as marinas, fuel barges or restaurants. The g2 Vision plugin data card also allows the units to graphically depict a true 3D "mariner's eye" topside view or "fish eye" underwater navigation perspective.

KEY FEATURES

- GPSMap4008/4208 - 8.4in 640x480 pixel VGA
- GPSMap4010/4210 - 10.4in 800x600 pixel SVGA
- GPSMap4012/4212 - 12.1in 1024x768 pixel XGA
- Worldwide satellite basemap
- GPSMap4208, 4210 & 4212 - preloaded with US coastal maps
- Auto Guidance searches all the chart features to suggest the best known charted route for navigation
- Dual Bluechart g2 card slots
- 4000 waypoints, 50 routes, 300 waypoints/route
- GPSMap4012/4212 - 2 video inputs for onboard cameras, 1 SVGA PC monitor output
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt celestial tables for sun and moon calculations
- Add radar with optional GMR series digital antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD22 digital remote sounder

SUPPLIED WITH

GPS 17 WAAS sensor, A/V cable, power/data cable, mounting bracket, unit cover, flush mount, bail mount



GARMIN GPSMap5000 SERIES

8.4in, 12.1in & 15in Touchscreen Colour Combination Displays

The GPSMap 5000 series features a radical touchscreen interface that makes navigation as easy as pointing your finger. The units are supplied with a worldwide basemap with high-quality satellite images in place of more traditional charts. For even more detail, you can add charts easily using the SD card slots. Keep watch on your engine room or other areas of your vessel by connecting a live video feed using the video input/output.

BlueChart g2 Vision charts add a whole new dimension of exceptional feature - 3D mariner's eye view or fish eye view provides you with a 3D perspective of map information, both above and below the waterline. High-resolution satellite images and aerial photographs help you orient yourself in unfamiliar areas. Auto Guidance creates a route that avoids shallow water, buoys and other obstacles.

KEY FEATURES

- All the features of the 4000 series combi displays
- Innovative touch-screen design
- Dual Bluechart g2 card slots
- Add radar with optional GMR series digital antennas
- Add sonar with optional GSD22 digital remote sounder
- GPSMap5008/5208 - 8.4in 640x480 pixel VGA
- GPSMap5012/5212 - 12.1in 1024x768 pixel XGA
- GPSMap5015/5215 - 15in 1024x768 pixel XGA
- GPSMap5208, 5212 & 5215 - preloaded with US coastal maps

SUPPLIED WITH

GPS 17 WAAS sensor, A/V cable, power cable, mounting bracket, unit cover, flush mount, marine grommet kit, NMEA2000 drop cable, NMEA2000 T-connector & terminator kit, NMEA2000 power cable, NMEA0183 cable



GARMIN HD DIGITAL RADAR

High Definition Digital Radar

The Garmin HD digital radomes and open array antennas offer high-powered Digital Signal Processing for sharper radar imagery and improved target separation. Automatic pulse optimisation matches pulse width and repetition rate with the selected range.



Self-contained signal processing provides a more precise, easy to read signature. Data is transmitted over the Garmin Marine Network to any compatible Garmin display.

KEY FEATURES

- Narrow beamwidth
- MARPA target tracking (10 targets)
- 24/30rpm dual rotation on open array antennas
- Minimum range - 20m

Tech info

Garmin Radar Scanners

When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Beam	Type	Range
GMR 18	18in	4kW		RD	36nm
GMR 18HD	18in	4kW	5°	RD	36nm
GMR 24HD	24in	4kW	3.6°	RD	48nm
GMR 40xHD	48in	4kW	1.8°	OA	72nm
GMR 40xHD	72in	4kW	1.18°	OA	72nm
GMR 60xHD	48in	6kW	1.8°	OA	72nm
GMR 60xHD	72in	6kW	1.1°	OA	72nm
GMR 120xHD	48in	12kW	1.8°	OA	72nm
GMR 120xHD	72in	12kW	1.1°	OA	72nm

RD - Radome Antenna (enclosed)

OA - Open Array

HD - High Definition

GARMIN GC10

Marine Camera

Durable and waterproof, the Garmin GC 10 was built to brave the elements. With a small and unobtrusive design in a rugged housing that makes it easy to mount almost anywhere on your boat.



KEY FEATURES

- Can be used with on-board TV, video monitors or chartplotters with video input
- No need to add separate hardware to view feed
- Standard-image and reverse-image models
- Automatic infra-red functionality

GARMIN GFS10

Fuel Sensor

Add fuel tracking to your Garmin combi and optimise your fuel economy.

KEY FEATURES

- 10-22v
- Unlike other fuel sensors it will measure fuel level when connected to an existing analogue fuel gauge or resistive fuel tank sensor
- Flow rate 2 - 50 Gallons per hour per engine
- Data transfer via CANet or NMEA 2000



We accept most major credit and debit cards



Touchscreen Combi Displays

GARMIN GPSMap6000 SERIES

8.4 & 12.1in Colour Combination Displays

The next evolution in Garmin's series of full-featured marine products, the 6000 series brings unprecedented speed to your vessel with Garmin G Motion™ technology - blazing-fast map redraw and refresh rates offers near real-time data to guide you. Whether you're in a crowded harbour or in uncertain weather, you'll have the confidence to navigate with the 6000 series as your guide. Compatible with an optional remote for added flexibility and with a sleek and stylish design that was built to brave the elements, they look great in any position on the boat.

The 6000 series features a worldwide basemap with high quality satellite images in place of more traditional charts, plus you can easily add charts with the dual card slots. Optional BlueChart g2 Vision charts add a whole new dimension of exceptional features to your chartplotter - MarinerEye view and FishEye view provide you a 3-dimensional perspective of map information, both above and below the waterline. High-resolution satellite images and aerial photographs help you orient yourself in unfamiliar areas. Auto Guidance technology searches through all relevant charts to create a route you can actually follow - one that avoids obstacles, shallow water, buoys and other obstructions.

Keep tabs on your engine room or other area of your boat with a live video feed using the video input and output options. The 6000 series easily connects to your network so you can interface with additional displays and add remote sensors, cameras and more. Once connected, you can share information between the 6000 series and other chartplotters on your boat. You can also add high-powered radar, sonar and XM satellite weather and radio to your system.

KEY FEATURES

- GPSMap6008/6208 - 12.1in 1024x768 pixel XGA
- GPSMap6012/6212 - 15in 1024x768 pixel XGA
- Worldwide satellite basemap
- GPSMap6208 & 6212 preloaded with US coastal maps
- Add radar with optional GMR series digital antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD22 digital remote sounder
- 5000 waypoints, 100 routes, 50,000 track points, 50 saved tracks
- 4 NMEA 0183 inputs, 2 NMEA 0183 outputs, 2 video inputs for onboard cameras, 1 PC monitor video output



- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt celestial tables for sun and moon calculations
- Tide tables
- AIS compatible

SUPPLIED WITH

GPS 17x NMEA 2000 with pole, flush and under deck mount adapters, front cover, power cable, video cable, NMEA 0183 cable, NMEA 2000 drop cable, 10m NMEA 2000 backbone cable, NMEA 2000 power cable, NMEA 2000 T-connector and terminator kit, bail mount, flush mount kit, marine grommet kit

GARMIN GPSMap7000 SERIES

12.1 and 15.5in Touchscreen Colour Combination Display

Put the power of Garmin's next-generation marine navigator right at your fingertips with the GPSMap7000 Series. The 7000 series brings all the features, all the power and speed of the 6000 series but with innovative touchscreen control and the choice of larger displays. The 7000 Series comes standard with a worldwide, satellite-enhanced basemap as well as video-quality resolution on an impressive 12.1in or 15.5in XGA display. The 7000 Series also provides total system integration – allowing support for the addition of sonar, radar, weather and more. For additional enhanced features, you can add the optional BlueChart g2 Vision card.

KEY FEATURES

- GPSMap7012/7212 - 12.1in 1024x768 pixel XGA
- GPSMap7015/7215 - 15in 1024x768 pixel XGA
- Dual Bluechart g2 card slots
- Worldwide satellite basemap
- GPSMap7212 & 7215 preloaded with US coastal maps
- Auto Guidance searches all the chart features to suggest the best known charted route for navigation
- AIS compatible
- Add radar with optional GMR series digital antennas
- Radar/chart overlay and split screen modes plus MARPA target tracking
- Add sonar with optional GSD22 digital remote sounder
- 5000 waypoints, 100 routes, 50,000 track points, 50 saved tracks
- 4 NMEA 0183 inputs, 2 NMEA 0183 outputs
- GPSMap7012/7212 - 2 video inputs for onboard cameras, 1 PC monitor video output
- GPSMap7015/7215 - 4 video inputs for onboard cameras, 1 PC monitor video output, 1 PC monitor video input
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Inbuilt tide tables and celestial tables for sun and moon calculations

SUPPLIED WITH

GPS 17x NMEA 2000 with pole, flush and under deck mount adapters, front cover, power cable, video cable, NMEA 0183 cable, NMEA 2000 drop cable, 10m NMEA 2000 backbone cable, NMEA 2000 power cable, NMEA 2000 T-connector and terminator kit, bail mount, flush mount kit, marine grommet kit



Turn to the back page for pricing and ordering info NOW!

Fishfinders & Instruments

GARMIN echo 100

4in Mono Single Beam Fishfinder

State-of-the-art target tracking technology brings a new level of fishing capability to the budget minded buyer. Garmin's exclusive HD-ID target tracking technology brings enhanced separation and definition of images on the echo 100's fast refreshing 4in grayscale display. The single-beam 200kHz transducer lets you scan to depths of up to 180m.

KEY FEATURES

- Garmin HD-ID™ technology
- 200kHz, 100 watts (RMS)
- Beam width to 60°
- Max Depth 180m (600ft)
- Compact design for smaller boats

SUPPLIED WITH

Tilt/swivel mount, transducer, trolling motor clamp and transom mount



NEW FOR
2011

GARMIN echo 200

5in Mono Dual Beam Fishfinder

Combines the features of the echo 150 with a larger 5in grayscale display. The dual-beam transducer scans deep water to 450m with a wide scanning angle perfect for shallow water as well. Smooth Scaling™ technology means you won't lose sight of the sonar history as the unit changes depth ranges and allows you to rewind your sonar history in order to ensure that you haven't missed a thing.

KEY FEATURES

- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Max depth 450m (1,500 ft)
- Beam width to 120°

SUPPLIED WITH

Tilt/swivel mount, transducer, trolling motor clamp and transom mount



NEW FOR
2011

GARMIN echo 300c

3.5in Colour Dual Beam Fishfinder

The echo 300c combines the performance and features of the echo 200 with the compact design of the echo 150 and a 3.5in colour sunlight viewable display. echo 300c is the only colour dual-beam fishfinder on the market at this price, making it the premier sonar option for fishermen on a budget!

KEY FEATURES

- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Max depth 450m (1,500 ft)
- Beam width to 120°

SUPPLIED WITH

Tilt/swivel mount, transducer, trolling motor clamp and transom mount



NEW FOR
2011

GARMIN echo 150

4in Mono Dual Beam Fishfinder

With dual-beam technology at a single-beam price, echo 150 is the sport fisherman's dream. Scan to depths of 400m in fresh water. In shallower water, a viewing angle of up to 120° lets you see fish well beyond the sides of your boat. HD-ID target tracking technology provides you with better separation and definition of images.

KEY FEATURES

- Garmin HD-ID™ technology
- 200/77kHz, 200 watts (RMS)
- Beam width to 120°
- Max Depth 400m (1,300ft)
- Compact design

SUPPLIED WITH

Tilt/swivel mount, transducer, trolling motor clamp and transom mount



NEW FOR
2011

GARMIN echo 500c/550c

5in Colour Dual Beam Fishfinders

Range of colour dual frequency fishfinders ideal for both shallow and deep water. HD-ID target tracking technology brings enhanced separation and definition of images. Smooth Scaling™ technology means you won't lose sight of the sonar history as the unit changes depth ranges and allows you to rewind your sonar history in order to ensure that you haven't missed a thing. The echo 550c boasts a video-quality 640x480-pixel VGA screen, providing an amazing level of detail on fish returns, structure and bottom contours.

KEY FEATURES

- Garmin HD-ID™ technology
- 200/77kHz, 500 watts (RMS)
- Max depth 580m (1,900 ft)
- Beam width to 120°
- **echo 500c** - 5in colour QVGA 234 x 320 pixel display
- **echo 550c** - 5in colour VGA 480 x 640 pixel display

SUPPLIED WITH

80/200kHz transom transducer, power/data cable, mounting bracket, flush mount hardware



NEW FOR
2011

GARMIN GMI 10

Digital Marine Instrument Display

Radical colour multifunction display that integrates with the Garmin Marine Network and other sensors via NMEA2000 and NMEA0183. By showing data from multiple remote sensors on one display, the GMI 10 offers a streamlined approach to marine instrumentation. Display data such as depth, speed, water and air temperature, wind speed/direction, fuel flow rate, engine data, fuel level and more, depending upon what sensors are connected. The GMI 10 supports more than two dozen standard NMEA2000 and more than 20 NMEA0183 data sentences and can also connect to any Garmin Marine Network chart-plotters with an NMEA 2000 port.

KEY FEATURES

- Clear, bright 320 x 240 pixel colour QVGA display
- Flexible, expandable system suits all boat sizes
- **GWS 10** wind sensor with barometric pressure and air temperature
- **GPS 17x** 12-channel WAAS GPS sensor
- **GFS 10** fuel sensor
- NMEA2000 and NMEA0183 compatible
- Waterproof
- Flush mountable



HOT
PRODUCT

SUPPLIED WITH

Display, mounting hardware, sun cover, power/NMEA 0183 cable, NMEA 2000 power cable, NMEA 2000 drop cable, NMEA 2000 tee & terminator kit



GWS 10 Wind Sensor



GPS 17x GPS Sensor



GFS 10 Fuel Sensor



We accept most major credit and debit cards



Autopilot, AIS & VHF Radios

GARMIN GHP 12

Sailboat Autopilot System

GHP 12 brings Garmin's marine autopilot technology to sailboats. This second-generation autopilot is designed to suit most 20 to 70ft sailboats with linear-actuated steering systems with a choice of two drives (supplied separately).



KEY FEATURES

- Steer to GPS (requires GPS input)
- Integrates with GWS 10 wind sensor or compatible NMEA windvanes
- Heading hold, wind hold, step turn, tack/gybe

NEW FOR
2011

LINEAR ACTUATORS AVAILABLE

- Class A Drive Unit - up to 28,500lbs displacement
- Class B Drive Unit - up to 79,000lbs displacement

SUPPLIED WITH

GHC 10, course computer, electronic control unit, interconnect cable, buzzer, power cable, NMEA2000 drop cable, 2 x NMEA2000 T-connectors. Drive units sold separately

GARMIN GHP 10

Powerboat Autopilot System

Powerful, easy to use autopilot system. The GHC 10 fixed control unit integrates via a NMEA2000 bus, so autopilot heading data can easily be shared with other devices including chartplotters. Up to three GHC 10 controls can be interfaced with a single pilot, ideal for multiple helm station boats.



KEY FEATURES

- Suitable for all types of hydraulically steered power boats - inboard, outboard, stern-drive, diesels
- NEW FOR 2011 - GHP 10V version for Volvo Penta IPS steering systems
- No rudder feedback unit required
- Gyro-stabilised compass
- Patented Shadow Drive™ technology automatically disengages autopilot if the helm is turned and re-engages when a steady course is held
- Hold position against wind, waves or current
- Can steer in reverse
- Bright 320 x 240 pixel QVGA colour LCD display

HYDRAULIC REVERSING PUMPS AVAILABLE

- 1.2L (up to 160cc, 10in³)
- 2.0L (160-400cc, 10-24in³)
- 2.1L (160-400cc, 10-24in³), engine size 400hp+

SUPPLIED WITH

GHC 10, course computer, gyro compass, drive unit, interconnect cable, buzzer, power cable, NMEA2000 drop cable, NMEA2000 T-connector

GARMIN VHF 100i & VHF 200i

Fixed DSC VHF Radios

The Garmin VHF 100i and 200i range of VHF radios feature a large backlit 3.2in display, rotary volume, squelch and channel selection knobs, up to 25W transmission power and provides full Class D DSC capability.

KEY FEATURES

- Locate and monitor up to three other boats with position tracking capability
- 200i - Two-way hailer functionality when connected to compatible horn speaker
- 200i - Automatic and manual foghorn signals and adjustable base fog frequencies
- LOCAL receiver mode improves performance in busy port environments
- Ergonomic fist mic with built-in speaker
- Programmable international channels
- ATIS and private channel customisation options
- 200i - Multi-language user interface
- 200i - Supports GHS 10i second station
- Automatic power-on when boat starts
- Waterproof to IPX7 standard
- Easy front flush-mounting option
- NMEA 0183 compatible
- 200i - NMEA 2000 compatible

SUPPLIED WITH

Fistmike, power cable, hailer/NMEA cable (200i), mounting bracket, flush mount gasket, protective cover



GARMIN VHF 300i & VHF 300i AIS

Fixed DSC VHF Radios

Multi-station Class D DSC VHF transceiver comes with a two-way hailer system and a voicemail feature that lets you pre-record a 15-second message and send to any DSC radio. Replay the last 90 seconds of any incoming voice transmission at the touch of a button. Listen via the supplied 4in active speaker with volume control, the handset's inbuilt speaker or third-party passive speakers.

Also features an inbuilt dual channel AIS receiver which simultaneously receives Class A and Class B AIS signals. NMEA 0183 and 2000 compatible.



KEY FEATURES

- Space-saving black box configuration
- 30w hailer when connected to compatible horn speaker
- GHS 10i handset microphone with 2in LCD display
- Rotary key and three soft buttons for dynamic controls
- Multi station support with intercom facility
- Locate and monitor up to three other boats with position tracking capability
- VHF 300i AIS - display AIS ship information - position, course and speed of AIS equipped vessels within range
- Waterproof to IPX7 standard

SUPPLIED WITH

GHS 10i handset microphone, active speaker, power cable, 10m deck cable, mounting hardware

GARMIN AIS300

Black Box AIS Receiver

This affordable NMEA2000 compatible black box AIS receiver alerts you to potential collisions with other AIS-equipped vessels in your vicinity. It integrates with a Garmin chartplotter and VHF radio to enable automatic AIS target calling and to display AIS target data directly on the chartplotter screen.



KEY FEATURES

- Class A and Class B reception
- Closest Point of Approach (CPA) alarm
- 12-volt and 24-volt boat systems
- NMEA 0183 output with selectable speed
- Inbuilt passive splitter enables one VHF antenna to serve both the AIS 300 and any VHF radio

SUPPLIED WITH

Power/data cable, 2m NMEA2000 cable, NMEA2000 T-connector, VHF interconnect cable, mounting kit

GARMIN AIS600

Black Box AIS Transceiver

Receive and transmit AIS data. Inbuilt active splitter allows one VHF antenna to serve both the AIS 600 and VHF radio with minimal signal loss. The AIS 600 connects to your existing Garmin marine network and is controlled via the chartplotter, so all the information you need will be right at your fingertips.



HOT
PRODUCT

KEY FEATURES

- ClearTrack™ technology ensures no interruption of AIS traffic position while the VHF radio is in use
- Integrates with chartplotters & VHF via NMEA2000
- Call With Radio function - initiate a call to any MMSI target directly from the chartplotter

SUPPLIED WITH

GPS antenna, pole & surface mount, power cable, SRM cable, 2m NMEA2000 cable, NMEA2000 T-connector, USB cable, 2m VHF interconnect cable, PC/Software CD, mounting kit

LOWRANCE HDS

5, 7, 8 & 10in HD Chartplotters, Fishfinders & Chart/Fishfinders



**HOT
PRODUCT**

HDS chartplotters and combi plotter/fishfinders offer High Definition fishfinding and Insight charting, delivering unprecedented inland mapping and coastal charting detail with lightning-fast screen display updates. The versatile and flexible HDS operating system presents a whole new way to view and select features. This menu format is easy to grasp, so you can fly through keypad functions control with the greatest of ease and speed. The inbuilt high-sensitivity 16-channel GPS-WAAS antenna makes installation easy with no external antenna to fit. The 8 and 10in models feature a unique FlyWheel™ scroll dial and quick access softkeys as well as a larger memory capacity and four-way split screen functionality (two-way on the 5 & 7in models).

KEY FEATURES

- Range of chartplotter only or chartplotter/fishfinders with a choice of 5, 7, 8 or 10in displays
- Compatible with late-model Lowrance transducers, yellow Ethernet networks and NMEA2000 network connectors
- Preloaded with Insight High Definition mapping (US) or Navionics world background map (rest of world)
- Compatible with Navionics Gold, Platinum, FreedomMaps, Fishing Hotspots, Elite, LakeMaster Pro and more
- SolarMAX™ PLUS display for the best detail in bright sunlight, the best wide-angle viewing ever achieved
- Multi station networking
- Add Digital Radar, Sirius Marine Weather, AIS, instrumentation and more via NMEA2000

LOWRANCE BROADBAND RADAR

Networked Radar System For HDS



The revolutionary Broadband Radar provides amazing target resolution, even at 1/32nm range. Docks, channel markers, moored vessels and other targets are displayed with clarity and separation. Broadband technology also eliminates the "main bang" of a pulse radar - the "dead zone" immediately around the vessel - which interferes with close target detection. Because Broadband Radar transmits at 1/2000th the power of typical pulse radars (10 times less than an average mobile phone), the radome can be mounted in locations never before possible. No more waiting ages for a magnetron to warm up - 100% solid-state design provides InstantOn™ capability!

KEY FEATURES

- 19in radome, 5.2° beamwidth
- Crystal clear image of your immediate surroundings
- First radar with no radiation hazard
- InstantOn™ with no tuning required
- Low power consumption, ideal for yachts

LOWRANCE STRUCTURESCAN

Sonar Imaging For HDS

Designed for all HDS displays, StructureScan is the first to give you the full picture, with phenomenal panoramic underwater sonar imaging, both sidescan and standard down scan. Plug and Play, it's easy to install - the LSS-1 imaging transducer is a low-profile, low-drag unit designed for multiple mounting locations - transom, transom step, jack-plate, even trolling motors (with a simple, inexpensive adapter option).



KEY FEATURES

- Fully Networkable
- Down Scan high detail sonar imaging up to 90m
- Side Scan imaging to at least 45m
- View DownScan imaging with HDS Broadband Radar in split screen mode
- Transducer includes water temperature sensor

SUPPLIED WITH

LSS-1 module, LSS-1 imaging transducer

LOWRANCE SONIC HUB

Marine Audio Server



**NEW FOR
2011**

Marine audio server which allows the boater to control their onboard music components from any HDS display on the boat. A waterproof dock connects an iPod, iPhone or MP3 player while keeping it protected and secure. Input lines allow for the control of an iPod, iPhone, Lowrance LWX-1 SIRIUS radio (US only), integrated AM/FM radio tuner, and plays MP3s on a USB stick. Convenient and versatile, SonicHub adds a new world of enjoyment and functionality to Lowrance HDS systems.

KEY FEATURES

- Simple, menu-driven controls on the HDS - no need for a separate stereo head unit
- Four channel x 50 watt speaker amplifier
- AM/FM stereo tuner
- Line-out to subwoofer
- Supplied with 2 x 200w 6.5in marine speakers
- Audio source inputs including Apple products, other MP3 sources via USB port and flash drive
- Stereo AUX line input for audio, mono line input for intercom, alarm and emergency override
- Music control for up to two individual zones

SUPPLIED WITH

SonicHub server, waterproof dock, 2 x 6.5in 200W 2-way speakers, NMEA2000 network T-connector plus 1.8m cable, mounting kit

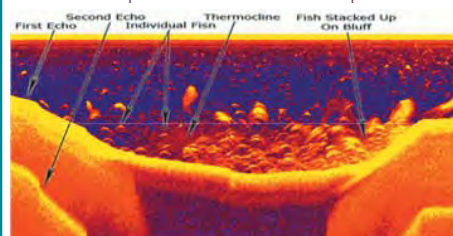


Find out more...

Broadband Sounder

The Lowrance Broadband Sounder is built into the HDS series and it allows them to see fish in, around and through structure, while operating at high speeds in challenging conditions, even in extraordinary depths.

When fishing in shallow water, the Lowrance Broadband Sounder reduces clutter in the water column and presents a much clearer picture.



It also allows a standard Lowrance 200kHz single-frequency transducer to operate at 83kHz, resulting in a full 120° wide angle coverage. With a wider scanning area, targets remain in the cone's angle for a longer period of time, resulting in more detailed readings.

It also offers the ultimate in resolution and target discrimination, resulting in an unparalleled look at the depths below. Now anglers can find targets in grass, weed beds and other fish - holding structure like never before.



We accept most major credit and debit cards



Chartplotters, VHF Radio

LOWRANCE ELITE-5 SERIES

5in Colour Fishfinder, Chartplotter and Chart Fishfinder

The colour Elite Series brings high performance without a high price. Whether fishfinder, chartplotter, or combination unit, Elite provides any vessel with incredible precision and functionality, with a high definition, high detail 480x480 pixel, 5in enhanced SolarMAX™ sunlight viewable colour display with wide viewing angle. An uncomplicated keypad design enhances one-hand control and new, simpler menu text+icon design makes intuitive operation simple.



KEY FEATURES

- Elite-5x - Dual frequency Fishfinder
- Elite-5M - GPS+EGNOS+MSAS Chartplotter
- Elite-5 & Elite-5X - Combination dual frequency Fishfinder/Chartplotter
- Easy-to-install low-profile base with convenient cable routing access
- Easy one-hand tilt/swivel viewing adjustment, removal for stow and re-install

FISHFINDER FEATURES (ELITE-5X & ELITE-5)

- 500W RMS, 4000W PTP, depth to 305 m/1,000 ft
- Dual-frequency 83/200 kHz, 20/60 degree Skimmer® transom-mount transducer with internal temp sensor and up to 120° of wider sonar coverage

CHARTPLOTTER FEATURES (ELITE-5M & ELITE-5)

- Internal 16-channel precision GPS antenna, plus external antenna option
- Built-in worldwide reference basemap (ROW) or detailed basemap of U.S. inland waters and coasts (US model)
- Multiple map/chart card options
- Up to 3,000 waypoints, 100 routes, 100 plot trails
- Overlay Data
- High-Speed Updates



LOWRANCE ELITE-5 DSI SERIES

5in Colour Fishfinder and Chart Fishfinder

With the incredible new standalone Elite-5 DSI range of imaging fishfinders and fishfinder with chartplotters, you're equipped with a technologically new way to find fish, clearly, precisely and affordably. Exclusive Lowrance DownScan Imaging™ innovation displays crystal-clear photo-like views of the water under the boat.



KEY FEATURES

- Elite-5 DSI Gold - Dual frequency Chartplotter/Fishfinder, 300W
- Elite-5 DSI - Dual frequency Chartplotter/Fishfinder, 500W
- Elite-5x DSI - Dual frequency Fishfinder, 500W
- Brilliant 5in 480x480 pixel SolarMAX™ 256-color TFT detail
- 455/800kHz dual frequency fishfinding
- Elite-5 DSI Gold - 300W RMS, 2400W PTP, max depth 61m (200ft)
- Elite-5x DSI & Elite-5 DSI - 500W RMS, 4000W PTP, max depth 76m (250ft)
- Exclusive Lowrance down-looking sonar imaging innovation
- Detailed, photo-like viewing locates prime fishing spots under the boat
- Easy-to-use with manual fine-tuning option

LOWRANCE LVR-250

Fixed DSC VHF Radio

Solid reliability and attractive features without the high price in a new, high-quality 25W/1W fixed-mount VHF marine radio with DSC facilities.

KEY FEATURES

- 1 x 1.8in LCD channel/function display with backlighting
- 25 watts transmit power / 1 watt low power mode
- Full DSC Class D/SC-101 automatic distress operation
- 6 tactile microphone keys
- Rotary Channel control with press-to-enter
- Super-large 16/9 calling channel key
- 3 favourite channel mode with scan
- 3W external speaker and GPS interface
- Display GPS boat position and time when connected to a compatible GPS chartplotter
- Rotary Channel control with press-to-enter
- Local/Distant feature eliminates interference
- Case and mic waterproof (JIS 7 submersible)



LOWRANCE LVR-880

Fixed DSC VHF Radio

Solid reliable 25W/1W DSC marine radio - the first to feature an FM radio receiver and NMEA2000 interface for Track-Your-Buddy. Plus other premium features in an exceptional 25W/1W DSC marine radio.

KEY FEATURES

- NMEA0183 and NMEA2000 DSC integration
- Navigation to waypoint with transfer capability to plotters
- 200 waypoints with up to 6 character naming
- Display boat position and time when connected to a compatible GPS chartplotter
- Intercom with talkback plus built-in 22w hailer-horn
- Extra-large and bright FSTN full-matrix screen
- Large 57mm speaker for great audio output when running at high speed
- Rotary Channel control with press-to-enter
- Instant "GO" and MOB key
- 3W external speaker jack
- Case and mic waterproof (JIS 7 submersible)



LOWRANCE LHR-80

Handheld VHF

Enhanced with a built-in GPS receiver, the Lowrance LHR-80 is a full-featured, 1/5W handheld VHF marine radio with the added convenience of a simple plotter with Great Circle waypoint navigation, Man Over Board functionality and storage for up to 500 waypoints. It's waterproof and it floats too!

KEY FEATURES

- Built-in GPS receiver with unique trackplotter screen feature
- Great Circle waypoint navigation
- Storage of up to 500 waypoints
- Man Over Board functionality
- "Track-Your-Buddy" allows boaters to pinpoint and display the exact location of other vessels via position polling
- "Get Buddy" transmits radio's position at the push of a button
- Save a buddy list of up to 20 people
- Large display with adjustable contrast and backlighting
- 1400mAh Li-Ion battery
- Signal Strength Indicator
- NOAA Wx 1050Hz tone alert for weather/storm warnings (US only)
- Lat/Long and time display
- Distress call button
- Up to 13hrs battery life



SUPPLIED WITH

Rubber Duck antenna, desktop charger with wall adapter, wrist strap and belt clip

SIMRAD NSE8 & NSE12

8in & 12in Combi Displays

Simrad NSE is engineered for anyone who is serious about performance navigation. The NSE8 and NSE12 displays are feature-rich network displays outfitted with a lighting fast processor, high bright LED backlight display and intuitive control interface. Equipped with the optional BSM-1 broadband sounder module and BR24 Broadband Radar or HD digital Radar, the NSE range offers best in class performance.



KEY FEATURES

- Single, Dual or multi-station configurations
- Intuitive control interface for easy operation
- Network NMEA0183, NMEA2000 or Simnet data
- Input and output of video or navigation data
- Pre-loaded with complete European Navionics Platinum charts for Europe
- Award winning echosounder and radar technology
- Brilliant Low Power LED Display Technology
- Bracket or flush mount



SIMRAD NSO

Black Box Navigation System

For applications that require larger multifunction displays and flexible networking. Operate up to three screens from a single processor and enjoy the very latest in radar, sounder and chartplotter technology with embedded regional cartography straight out of the box. Expand the system from the extensive range of modules and create the system for your needs, all controlled and monitored via fully-customisable displays. Modules and screens can be added or replaced at any time. Modules include Broadband & HD Digital radar, Broadband & StructureScan sounders, autopilot, AIS, Weather, VHF radio, SonicHub entertainment and marine instruments.



KEY FEATURES

- Choose from 10, 15 and 19in Simrad monitors, or use third-party displays
- Ideal for all types of mounting including glass bridge
- Each processor can support up to three monitors (two DVI and one RGB)
- Rugged, black box processor with 80GB hard drive
- OP40 wired remote controller with rotary control and dedicated keys will control up to four processors
- Network up to four processors via Ethernet and SimNet / NMEA2000

SUPPLIED WITH (NSO15 PACKAGE)

Processor, D115 15in monitor, OP40 wired remote, dash-mounted SD card reader, embedded regional cartography (InsightHD for the US, Navionics Coastal for ROW)

SIMRAD HD RADARS

High Definition Digital Radar

Simrad HD Radars for NSE & NSO systems combine high performance scanners with the latest developments in digital radar processing. Exceptional detection of small or distant targets with virtually no screen clutter displays the full picture of your surroundings.



KEY FEATURES

- DX425 2kW 18in Radome, 24nm, 5.3° beamwidth
- DX645 4kW 24in Radome, 48nm, 4° beamwidth
- TX065 6kW 4ft Open Array, 64nm, 1.8° beamwidth
- TX105 10kW 6ft Open Array, 72nm, 1.2° beamwidth
- TX255 25kW 8ft Open Array, 96nm, 1° beamwidth

SIMRAD BROADBAND RADAR

Networked Radar For NSE & NSO

A revolutionary radar system using solid-state technology, providing superior target detection and separation, ease of operation and a new level of navigational safety to a wide range of boats. With no magnetron, no tuning or adjustment is ever needed and warm up times are eliminated! Broadband Radar transmits at 1/20,000 the power of standard radars (1/10th of an average mobile phone), so the radome is safe to mount in locations never before possible!



**HOT
PRODUCT**

KEY FEATURES

- An ideal match for almost any vessel
- Unparalleled short-range resolution & discrimination
- Crystal clear image of your immediate surroundings
- InstantOn™ with no tuning required
- Low power consumption, ideal for yachts
- Extremely low radiation, mount anywhere

SIMRAD SONICHUB

Marine Audio Server



**NEW FOR
2011**

Marine audio server which lets you control your onboard music components from any NSE or NSO display. A waterproof dock connects an iPod, iPhone or MP3 player while keeping it protected and secure.

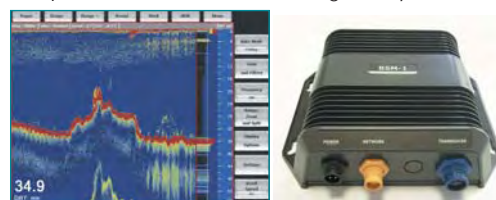
KEY FEATURES

- Four channel x 50 watt speaker amplifier
- AM/FM stereo tuner
- Line-out to subwoofer
- Audio source inputs including Apple products, other MP3 sources via USB port and flash drive
- Stereo AUX line input for audio, mono line input for intercom, alarm and emergency override
- Music control for up to three individual zones

SIMRAD BSM-1

Broadband Sounder Module

Compatible with NSE and NSO navigation systems.



KEY FEATURES

- Tri-frequency capability for optimal performance
- Deep water performance of over 3000ft (with appropriate transducer)
- Low Power and Low-noise Sonar
- High Resolution Linear receiver providing superior clarity in shallow and mid water

SIMRAD RS25 + AHK05

Fixed VHF and Wireless Handset



Class D DSC fixed VHF transceiver with full function fist mic and optional Bluetooth handsets (up to two per unit) with 100m range. Extra-large display plus rotary channel selector and button controls.

KEY FEATURES

- Intercom and Conference Features
- Position Polling, Track your Buddy and Group Call
- Barometer, thermometer and weather forecasting
- Dual watch, Tri watch and All-Scan functions
- Position display when integrated with GPS
- ATIS facility for inland waterways
- 25W / 1W transmission power
- Distress call button
- Waterproof to JIS-7
- NMEA 0183 input

**NEW FOR
2011**

SIMRAD NAIS300 & AI50

AIS Transceiver Units

Class B Transceiver available as either a Blackbox (NAIS-300) or standalone unit with inbuilt display (AI50). Supplied with integrated GPS receiver



KEY FEATURES

- Plug and Play installation via NMEA0183 or Simnet
- Both models can be integrated with a compatible chart display or PC via NMEA0183 or Simnet



We accept most major credit and debit cards



Navigation Equipment

SIMRAD TP10, TP22 & TP32

Cockpit Tillerpilots

Simrad's legendary Tillerpilots offer unparalleled reliability, power and low current consumption along with supreme course keeping ability and quiet operation.



KEY FEATURES

- Waterproof double sealed design
- NMEA interfacing to GPS & windvane (TP22/32)
- SimNet compatible (TP22/32)
- Optional external fluxgate sensor (TP22/32)
- Hand remote option (TP22/32)

MODELS AVAILABLE

- **TP10 (Up to 10m)** - Budget standalone Tillerpilot.
- **TP22 (Up to 11m)** - Faster hard over time plus SimNet and NMEA compatibility.
- **TP32 (Up to 12m)** - Top spec high performance pilot with 85kg thrust and ultra-fast hard over time.

SUPPLIED WITH

Mounting kit, deck socket (TP22/32 only)

B&G ZEUS Z8 & Z12

8in & 12in Combi Displays

B&G Zeus is the only system designed to meet the specific needs of racing and performance cruising sailboats. The multifunction displays not only integrate seamlessly with B&G's acclaimed H3000 instruments but also include a comprehensive range of sailboat specific features to assist the crew in maximising the performance of their boat.



NEW FOR
2011

KEY FEATURES

- Radar, dedicated sail navigation and weather chart overlays
- Water and ground vectors show the effect of tide and leeway on your course
- Mark & boat laylines, with time & distance to layline for each tack
- WindPlot allows you to make decisions on route choice, whether to tack or stand on in the next gust etc
- Direct editing and backup of H3000 Polar tables
- B&G H-Link, NMEA0183 & NMEA2000 compatible
- Integral chartplotter with preloaded cartography (Nautic Insight™ for the USA and Navionics coastal packages for Europe and APAC)
- Optional cartography including Navionics Platinum+ with 3D Turboviev
- Compatible with wide range of Navico equipment including Broadband Radar, SonicHub and other approved Ethernet, SimNet and NMEA2000 devices



NORTHSTAR 8000i

12in Colour Touchscreen Combi

Wow! What A Deal! A £4,000 Integrated Nav System Now Reduced To Just £1,400. **And Exclusively From Us.** The Northstar 8000i is a powerful 12in touch screen multi function chartplotter with sounder, entertainment and radar options. The system gives you the best of both worlds with a choice of either keypad data entry and control or touch screen and you can even plug in an optional USB mouse or trackerball to control the system.

DISPLAY FEATURES

- Accepts separate inputs from other devices
- DVI input, VGA input, two S video inputs, 2 composite inputs and USB input
- Multiple 8000i systems can be linked and share data throughout the system

NAVIGATION FEATURES

- Embedded C Map Max Pro charts - unlock region simply by purchasing a licence
- Chart updates easily transferred from PC over the internet in real time
- Head up, course up or north up display
- Split screen - show up to 4 functions at the same time in individual panes
- Chart layers - turn on and off detail such as buoyage, lights, chart text, depth etc
- View 3D chart to see a panoramic view of the area as if you were flying over it
- Synchronised 2D and 3D view of the same chart side by side
- Built in hard drive offers virtually unlimited waypoints, marks, routes and tracks
- Waypoints can be named and given a full set of notes via onscreen keyboard

SOUNDER OPTION

- 1kW high performance dual frequency 50/200kHz network sounder available
- Can also support lower power 600W transducers already fitted on the boat

RADAR OPTION

- Compatible with the digital scanner range from Northstar/Navico
- Compatible with latest broadband radar technology available from Navico

ENTERTAINMENT OPTIONS

- Features standard USB connections to connect a DVD, CD or memory sticks etc
- On screen interface allows easy playback of sources
- Video camera input either directly to the display or via a network connection

OPTIONAL ADDONS



BR24 Broadband Radar



2kW Digital Radome



4kW Digital Radome



6kW Digital Open Array



1kW Network Sounder



MEGA DEAL OFFER!
See website for details



SUPPLIED WITH

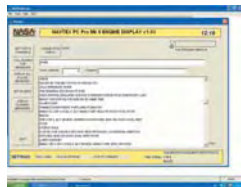
12in 8000i unit, GPS antenna, bezel, mounting gasket, sun cover, cleaning cloth, connector caps, mounting screws, power cable and fuses, utility cable, ethernet loopback, audio cable, USB dash mount connector, chart license key and holder

Turn to the back page for pricing and ordering info NOW!

NASA PC NAVTEX USB

Dual Frequency PC Navtex Receiver

View Navtex messages on your PC! Instantly get the latest weather forecast from your local station or any other message stored in the unit's memory.



KEY FEATURES

- Receives messages even without PC connected
- Supports selected message filtering and printing
- Low current consumption - can be left on 24/7

SUPPLIED WITH

Compact stub antenna, software, cable

NASA AIS ENGINE 3

2 Channel AIS Receiver

Turn your PC or compatible chart plotter into an AIS display! Windows 95, 98, ME, XP, 2000, NT and Vista compatible, the software includes a world map on which vessels are plotted.

KEY FEATURES

- Optional GPS input
- Display vessel name, MMSI number, position, call sign, destination etc
- Works with all plotters, radars, PCs etc with AIS input
- Super sensitive receiver with GPS multiplexer
- Receives all class A and class B messages
- AIS Engine 3 decodes all available AIS messages

SUPPLIED WITH

Software, 9-pin serial data cable, 12 volt power cable



NASA HF3/W

MF/HF Receiver



Covering 30Khz - 30Mhz, this compact MF/HF receiver includes a weatherfax interface.

SUPPLIED WITH

Antenna, PC cable, power supply, Meteoscan lite software to download weatherfax pictures, RTTY weather forecasts and navtex messages.

NASA CLIPPER

Instrument System

Budget 110mm instrument system with large clear displays. Supplied with transducers and cabling.



KEY FEATURES

- **Log** - log, trip log and trend indicator, kts/mph
- **Depth** - keel/waterline offset, deep/shallow alarms, trend indicator, feet or metres
- **Wind** - "digital analogue", selectable pointer style
- **Duet** - combines the Clipper Speed and Depth
- **Compass** - true or magnetic display, steering function, off-course alarm
- **GPS Repeater** - COG, SOG, Lat/Long, BTW, DTW, XTE, rolling road display

NASA CLIPPER EASY NAVTEX

Dual Frequency LCD Navtex Receiver



NEW FOR
2011

Easy to read, this new Navtex receiver features big, bold characters and intuitive message formatting.

KEY FEATURES

- 518/490kHz, programmable channel switching
- Built in real time spectrum analyser
- Very high contrast display with white backlight

SUPPLIED WITH

Compact stub antenna

NASA AIS RADAR

AIS Receiver



HOT
PRODUCT

Standalone AIS receiver that shows AIS equipped vessels in a radar-style format. A trail of previous positions clearly shows the relative track of all the targets on the screen. Requires standard VHF antenna.

KEY FEATURES

- 1, 2, 4, 8, 16 and 32nm ranges
- SOG, vessel's name, MMSI and current Lat/Long
- Low power consumption

NASA MOBI

Man Overboard Indicator

Keep your crew safe with this state of the art man overboard system, consisting of a base unit and up to eight waterproof active transponder tags, each of can be individually named.

KEY FEATURES

- Failsafe transponder technology
- Base unit alarm if crewmember falls overboard
- Each tag is individually identified on the display
- 3 x AAA batteries will power each transponder for several weeks' continuous use

SUPPLIED WITH

Base unit, three tags

NASA METEOMAN

Digital Barometer



Precision high resolution barograph. Easy to use and reliable with low power consumption.

KEY FEATURES

- Wind speed and direction, ambient temperature and barometric pressure
- Chronometer, stop watch, race countdown timer, internal temperature display and battery monitor
- Optional NMEA Wind sensor

NASA WEATHERMAN

RTTY Telex Receiver



Compact Radioteletype weather forecast receiver. Memory can store several thousand lines of text.

KEY FEATURES

- High contrast 16 lines x 40 character display
- Power save auto timer on backlight
- Spectrum screen for simple signal analysis

SUPPLIED WITH

Active micro antenna



We accept most major credit and debit cards



HOT
PRODUCT

NASA BM-1

Battery Monitor

Monitors the performance of 12v lead acid battery systems with up to 600Ah capacities. It shows voltage, current (charge or discharge), the battery's state of charge and the time to charge or discharge.



KEY FEATURES

- Supply current 3mA
- Battery capacities 5-600Ah
- Load current 100A maximum
- 110mm case with high contrast LCD
- 24v version also available

BM-1 & BM-1 COMPACT SUPPLIED WITH

Display, precision shunt and prefabricated cables for simple DIY installation

NASA BM-1 COMPACT

Battery Monitor

This compact 12v lead acid battery system monitor displays the voltage, current (charge or discharge), state of charge and the time to charge or discharge.



KEY FEATURES

- Supply current 1.5mA
- Battery capacities 5-600Ah
- Load current 100A maximum
- Compact - 125x62x23mm with high contrast LCD
- Also available in white

E Series Combi Displays

RAYMARINE E SERIES WIDESCREEN

9, 12 & 14in Colour Touch Screen Combi Displays



Touch screen or keypad operation? Now users have a choice of flexibility of operation with Raymarine's widescreen combi displays. E Series Widescreen is the most flexible, technically advanced, and easy to use multi-function navigation display to date. It also raises the bar with its bold styling, offering the maximum ultra-bright image and size for its footprint.

Touch screen operation has the advantage of being quick and easy, but it can be challenging to use in rough weather or when moving at speed. HybridTouch™ offers the choice of operating options giving users the flexibility of touch screen control alongside traditional hard keys - a seamless mix of both methods.

KEY FEATURES

- Network up to 5 E Series displays via SeaTalk/hs
- Optically bonded super high resolution displays
- Radical user interface allows users to easily personalise their home screen
- Inbuilt tutorial guides you through the features
- Full 'qwerty' on-screen keyboard for editing routes and waypoints etc
- Intuitive touch-by-touch manual route building
- Unicontrol™ integrates OK, Cursor & Rotary controls
- Softkeys for essential navigation functions
- Anti-collision alarm uses boat draught, height and beam data to safely navigate shallow water and help avoid chart hazards
- 48rpm high speed radar scanning
- Bird Mode helps fishermen detect and track fish shoals by tracking sea bird movement

- Fully customisable screens - see everything at a glance, fishfinder, HD radar, charting, engine data, fuel levels and more
- Low profile flush mounting
- Rugged IPX6 waterproof housing
- On board graphics accelerator
- Smoother 3D graphics and video
- Composite Video In
- Optional on board cameras
- Smartpilot X Series autopilot control
- Compatible with Digital Radar, Digital Sounder Module, AIS and SIRIUS Weather Module



SUPPLIED WITH

Power & interface lead, mounting bracket

RAYMARINE SR100

Sirius Weather Receiver (US Only)

Graphically display up to the minute animated weather forecasts on your Raymarine system. The SR100 delivers state-of-the-art weather forecast information. A monthly Sirius Marine Weather subscription is required.



KEY FEATURES

- Compatible with A, C, E and G Series systems
- WSI NowRad® Weather Radar
- Lightning and Storm Tracks
- Sea Surface Temperature
- Warnings, observations and buoy reports
- Surface Pressure, Wind and Wave forecast and more

RAYMARINE DSM30 & DSM300

HD Digital Sounder Module

Add HD Digital sounder technology to the C and E Series with the DSM30 (600W) and DSM300 (1000W) 50/200kHz dual frequency digital sounder modules. See table on right for transducers available.



KEY FEATURES

- Submersible to IPX7 standard
- hsb2 networking compatible
- HD Digital technology virtually eliminates clutter
- Auto Adaptive Gain control - no adjustment required
- Digitally Adaptive Transmitter Receiver with infinite receiver bandwidth settings and digital filter
- A-Scope (Real-Time Display): Split second real time representation of fish and bottom features
- Auto or manual zoom (x2, x4 or x6)
- Bottom lock and white line

SUPPLIED WITH

Transducers must be specified. If fitting to an E Series a SeaTalk/hs crossover coupler or SeaTalk/hs Network Switch is required

RAYMARINE AIS500

Black Box Class B AIS Transceiver

See and be seen with the AIS500 which receives AIS targets and transmit your vessel information to other AIS receivers. The AIS500 easily interfaces to Raymarine multifunction displays allowing AIS targets to be graphically overlaid in both chartplotter and radar modes.



KEY FEATURES

- Dual channel AIS monitoring
- Inbuilt antenna splitter and NMEA multiplexer
- Dedicated external 16 channel GPS antenna
- NMEA 0183 output - compatible with other makes
- Targets displayed on chart and radar screens

RAYMARINE AIS250

Black Box AIS Receiver

The Raymarine AIS250 interfaces with A, C, E or G Series systems, allowing AIS targets to be graphically overlaid in both chartplotter and radar modes.



KEY FEATURES

- Receives Class A and B AIS broadcasts
- Displays target name, course, speed and status
- Reconcile AIS and radar targets for added safety
- Inbuilt antenna splitter and NMEA multiplexer
- Two NMEA 0183 inputs, two NMEA 0183 outputs

Tech info

Raymarine Echosounder Transducers

Suitable for the Digital Sounder Modules and most Raymarine stand-alone fishfinders (except A Series).

P319	Plastic thru hull 600W, 50/200kHz Depth only	
B744V	Bronze thru hull 600W, 50/200kHz Depth, speed, temp Also available with long stem B744VL (shown)	
P66	High speed transom mount 600W, 50/200kHz Depth, speed, temp	
P79	Adjustable in-hull 600W, 50/200kHz Depth only	
SS555	Stainless steel thru hull 600W, 50/200kHz Depth only	
B256	Bronze thru hull high perf 1000W, 50/200kHz Depth, temp	
B260	Bronze thru hull v high perf 1000W, 50/200kHz Depth, temp	

RAYMARINE C SERIES WIDESCREEN

9, 12 & 14in Colour Combi Displays



The C Series Widescreen expands the capabilities of the original multifunction display with larger, brilliant displays, increased performance, expanded networking and video integration. Available in 9, 12 and 14in display sizes the C Series now offers dual station networking capability, a high sensitivity internal GPS receiver and high quality embedded charts. The optically bonded LCD display dramatically improves contrast, eliminates condensation and improves readability.

KEY FEATURES

- Internal high sensitivity GPS sensor eliminates need for an external antenna for most installations
- Embedded chart options: Europe, Coastal US, Latin America-Asia-Oceania
- Also compatible with Navionics Gold and Platinum
- Low profile flush mounting
- Rugged IPX6 waterproof housing
- Dual display networking via SeaTalk/hs
- Sunlight viewable, super high resolution displays :
C90W: WXGA resolution (800x480)
C120W: WXGA resolution (1280x800)
C140W: WXGA resolution (1280x800)
- Intuitive softkeys for essential navigation functions
- Unicontrol™ integrates 'OK', Cursor & Rotary controls into one
- Highly customisable user interface with multiple page and split window combinations
- Processors are 2.5 times faster
- Faster pans & screen refresh
- On board graphics accelerator
- Smoother 3D graphics and video
- Composite Video In
- Optional on board cameras
- Smartpilot X Series autopilot control
- Compatible with Digital Radar, Digital Sounder Module, AIS and SIRIUS Weather Module

SUPPLIED WITH

Power & interface lead, mounting bracket.

RAYMARINE A SERIES

5, 5.7 & 6.4in Colour Chartplotter & Chartplotter/Fishfinder Displays



The feature-packed A-Series are available as standalone chartplotters or combination chart/fishfinders with a powerful inbuilt 500W 50/200kHz HD Digital sounder. All are available with preloaded with Navionics charts and can be further expanded with optional Navionics Hotmaps, Gold or Platinum cartography on compact flash. Each A Series features a high sensitivity internal WAAS GPS receiver providing pinpoint chartplotter accuracy, or add a RayStar 125 GPS antenna for situations where an external GPS antenna is needed.

KEY FEATURES

- A50 - 5in Chartplotter
- A50D - 5in Chartplotter/Fishfinder
- A57D - 5.7in Chartplotter/Fishfinder
- A70 - 6.4in Chartplotter
- A70D - 6.4in Chartplotter/Fishfinder
- Embedded chart options: Europe, Coastal US, Latin America-Asia-Oceania
- Rugged IPX6 waterproof housing
- Sunlight viewable, high resolution VGA displays
- Intuitive softkeys for essential navigation functions
- Create customisable pages via NMEA2000/SeaTalk/hs
- Two NMEA0183 In/Outputs
- High speed chart redraw
- Compatible with SIRIUS Weather Module
- AIS target tracking (with optional AIS250 module)
- Smartpilot X Series autopilot control

RAYMARINE HD & SHD DIGITAL

Radar Scanners

Raymarine's exclusive Super HD Digital technology gives amazingly clear radar images with unmatched target separation and lifelike presentation that virtually eliminates noise, clutter and false echoes. Super HD Digital processing delivers a radar image that can't be matched by similar analogue or digital radar systems, with a level of performance that rivals that of systems of more than twice the size and power output.



RADOME KEY FEATURES

- Narrow horizontal beam angle - 4.9° for 18in and 3.9° for 24in
- Custom designed LNC (Low Noise Converter)
- Lowest noise on the front end of the system, superior sensitivity and weak target acquisition
- Greatest number of pulse lengths, pulse repetition frequencies and IF bandwidths
- Optimises range discrimination and target detection performance over the entire range scale
- Quieter belt drive operation
- Superior auto functions
- Thin interconnect cable (12.3mm)



OPEN ARRAY KEY FEATURES

- Twice the performance of analogue radar systems
- Reduces the effective horizontal beam width giving the target resolution of a much larger radar array
- Adaptive digital receiver automatically adjusts to changing environmental and sea conditions for a dramatically clearer picture
- Fast digital receiver processor
- 256 colour target levels
- Dual range capable
- Thin interconnect cable (12.3mm)
- 12 or 24 volt operation

Tech info

Raymarine Radar Scanners

When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Type	Range
RD418D	18in	4kW	RD	48nm
RD424D	24in	4kW	RD	48nm
RD418HD	18in	4kW	RD	48nm
RD424HD	24in	4kW	RD	48nm
A1048HD	48in	4kW	OA	72nm
A1048SHD	48in	4kW	OA	72nm
A1072HD	72in	4kW	OA	72nm
A1072SHD	72in	4kW	OA	72nm
A3048HD	48in	12kW	OA	72nm
A3072HD	72in	12kW	OA	72nm

RD - Radome Antenna (enclosed)

OA - Open Array

Digital and HD Domes are only compatible with C Wide, E Wide and G Series systems



We accept most major credit and debit cards



RAYMARINE ST70

Instrument System

The ST70 Multifunction Colour display offers a different way of visualising instrumentation and navigation data. Designed for simple setup and extensive user customisation, ST70's capabilities include depth, speed, wind, navigation data, autopilot status, engine monitoring and more.



HOT PRODUCT

ST70 systems use Raymarine's SeaTalkng Next Generation data bus which enables simple interconnection of multiple ST70 instruments, transducers and NMEA2000 compatible devices as well as existing Raymarine SeaTalk and SeaTalk2 systems.

To build a complete ST70 instrument system choose from the complete line of ST70 transducer pods and SeaTalkng networking components (sold separately.)

KEY FEATURES

- Fully customisable displays for depth, speed, wind, navigation data, engine data and more
- Full colour graphical displays, virtual analogue displays and histograms
- 8 user defined instrument data pages
- 16 screen layout options for each data page
- Eleven languages available
- High contrast sunlight viewable TFT colour display with wide viewing angles
- Day and Night mode colour palettes

- Fully waterproof to CFR-46 standard
- Easily retrofitted to ST60 surface mount installations
- Compatible with SeaTalk, SeaTalk2, SeaTalkng and NMEA 2000 devices
- Intelligently converts first-generation SeaTalk data to SeaTalkng

SUPPLIED WITH

- Snap-on sun cover, surface and flush mounting kits, SeaTalkng backbone cable, SeaTalk adapter cable

RAYMARINE ST60+ GRAPHIC

Multifunction Dot-Matrix Display

Versatile multifunction dot matrix display that can show any data on the SeaTalk network bus.



KEY FEATURES

- Intuitive Chapter and Page control keys
- Up to seven user configurable favourites pages
- View and control multiple data sources
- Large digit, graphical or multi-line format displays
- Single, split or quad screen displays

RAYMARINE ST60+ COMPASS

Compass System

KEY FEATURES

- Heading
- Average course
- Course Over Ground*
- Man overboard display
- Keypad heading alignment



RAYMARINE ST60+ SPEED

Speed/Log System

KEY FEATURES

- Boat speed 0-60kts
- Log & Resettable Trip
- Sea temperature
- Pilot Status display*
- Max & avg speed, VMG*
- Speed over ground*
- Stopwatch/lap timer
- Race start timer



RAYMARINE ST60+ DEPTH

Depth System

KEY FEATURES

- Water depth 0.8-180m
- Depth trend indicator
- Transducer, waterline or keel offset
- Pilot status display*
- Shallow, deep & anchor alarms



RAYMARINE ST60+ WIND

Wind System

KEY FEATURES

- Apparent wind speed
- True wind speed*
- True wind direction*
- Max wind speed alarm
- Beaufort, knots, m/sec
- Master or repeater



*Requires relevant data present on SeaTalk

RAYMARINE ST70+

Instrument System

The ST70+ system is designed primarily for sail and powerboats over 12m (40ft). The 6.5in wide angle, high-visibility displays are ideal where information is viewed at a distance, such as on the mast or on a large bridge, or if you simply want to view information in a larger format at the nav station or helm.



The sunlight-viewable displays are operated by dedicated keypads - there's a push-button only pilot keypad for sailboats, a rotary pilot for powerboats and a combination push button and rotary instrument keypad for complete control of all instrument features.



KEY FEATURES

- Superior visibility with high quality graphics
- Night and Inverse modes for low light conditions
- Create a system with SeaTalkng sensors for wind, speed, depth and NMEA2000 engine systems
- User defined instrument pages
- 25 screen layout options with analogue, digital and historical displays
- Configure as an instrument or autopilot display

RAYMARINE ST60+ TRIDATA

Combi System

KEY FEATURES

- Combined Speed and Depth multi-line display
- Boat speed 0-60kts
- Water depth 0.8-180m
- Speed over ground
- Automatically switches depth sensors when depth sounder module is detected, to avoid interference



RAYMARINE ST40

Entry Level Instrument System

Simple and elegant, with large digit LCD displays. Optional snap-on bezels, three levels of back lighting and waterproof to USCG-CFR 46. SeaTalk compatible, all necessary transducers are included.



Cockpit & Wireless Autopilots

RAYMARINE ST1000+/ST2000+

Cockpit Tiller Autopilot

Raymarine's range of tiller autopilots are suitable for most tiller-steered sailboats. Easy to use and install they feature a useful backlit display.



KEY FEATURES

- ST1000+ suitable for sailboats up to 2,500kg
- ST2000+ suitable for sailboats up to 4,500kg
- Inbuilt SeaTalk and NMEA interface
- Autopilot and navigation info display
- Weatherproof design, 2-stage pushrod seal
- Low power consumption
- Intelligent course holding software

ALSO CONSIDER

- Eagle ETP10, ETP22, ETP33

Optional Extras

Add second station control to your ST1000, ST2000 and SPX5 Cockpit Pilots by adding the wireless S100 controller.



RAYMARINE SPX5/SPX5GP TILLER PILOT

High Performance Cockpit Tiller Autopilot

The ultimate tiller autopilots, with a fixed control head and compass unit and two very powerful drive unit options but still with low power consumption.



KEY FEATURES

- For sailboats up to 6,000kg (SPX5) and 7,500kg (SPX5-GP)
- Inbuilt SeaTalk and NMEA interface
- Weatherproof design with two stage pushrod seal
- Intelligent course holding software

RAYMARINE SPX5 WHEEL PILOT

Cockpit Wheel Autopilot

Fully enclosed wheel mounted autopilot - no belts or untidy trailing wires. Features wheel mounted drive and a fixed control unit with large backlit display. The convenience of an inboard pilot at the cost of a cockpit pilot.

KEY FEATURES

- Low power consumption
- Backlit display and keypad
- SeaTalk and NMEA interface
- Navigational information repeater
- Intelligent course holding software
- Suitable for sailboats up to 7,500kg
- Can be used on hydraulically steered boats (with optional rudder feedback)

SUPPLIED WITH

Control unit, drive/gearbox unit, fluxgate compass and cabling



Optional Extras

Add second station control to your ST1000, ST2000 and SPX Cockpit Pilots by adding the wireless SmartController.



RAYMARINE SMARTPILOT X SERIES

Inboard Autopilot System

Raymarine's SmartPilot X range of inboard autopilots offer more power and greater steering accuracy with advanced steering software and powerful features. The ST70 autopilot control enables you to take full advantage of the SmartPilot X Series capabilities and performance. Each system must include at least one ST70 autopilot control, but additional ST70, ST6002, ST7002 or ST8002 control heads can also be added for multi-station control. The pilot can also be engaged directly from a Raymarine combi display.

SMARTPILOT X KEY FEATURES

- Complete all in one box autopilot
- Linear, hydraulic and stemdrive options
- Inbuilt rate gyro sensor
- AST (Advanced Steering Technology) and SmartSteer gives superior steering in all conditions and speeds
- Smart Rudder Sense eliminates rudder feedback unit
- SeaTalkng compatibility with ST70 instruments
- Control the pilot from your Raymarine combi display
- Automatic fishing patterns



ST70 AUTOPILOT CONTROL KEY FEATURES

- Unlock the full functionality of the SmartPilot X system
- 3.5in sunlight viewable colour display
- SeaTalkng and NMEA2000 interface
- Digital, compass or 3D isometric displays
- Surface or flush mount

SUPPLIED WITH

Control, course computer, gyro compass, drive.

RAYMARINE ST6002

Second Station Control Head

The ST6002 is a basic optional secondary control unit that can be used alongside the main ST70 control head. It features a large clear display with an analogue rudder angle indicator.

KEY FEATURES

- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments



RAYMARINE ST7002

Second Station Control Head

Optional secondary control head takes all the features and performance of the ST6002 and adds a multifunction control unit with large, clear LCD display.

KEY FEATURES

- Large display
- Analogue rudder angle indicator
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments



RAYMARINE ST8002

Second Station Rotary Control Head

Optional secondary control head with all the features of the ST7002, but with a large, easy to use rotary control knob and power steer option.

KEY FEATURES

- Large display
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments



RAYMARINE RAY49

DSC VHF Radio

The Ray49 is a compact, rugged, submersible (IPX7) VHF radio with easy-to-use rotary controls for volume, squelch and menu operation, a large 7-segment, back-light LCD display and the fistmike includes integrated channel controls and an inbuilt speaker. The receiver offers excellent noise rejection and best-in-class audio output. Features four scan modes and programmable scanning.

KEY FEATURES

- Class D DSC - distress key transmits GPS position and a digital mayday
- NMEA0183 input for chartplotter position polling
- Programmable Scanning, dual and Tri Watch
- Quick Access channel 16/9 Key
- NOAA Weather Alert (US only)
- External loudspeaker option
- Available in gray or white
- Optional flush mount kit



SUPPLIED WITH

Radio, microphone, sun cover, mounting bracket, power/speaker/data cable

RAYMARINE RAY240E

Modular DSC VHF Radio

Modular multi-station system with separate transceiver unit that can be mounted out of sight, with only the waterproof handset and remote loudspeaker on show. Each handset provides full VHF and DSC functionality plus intercom facility between stations.

KEY FEATURES

- Full function alphanumeric keypad
- Programmable scan and tri-watch
- Loudspeaker with on/off switch and volume control
- Optional fog horn/loudhailer

SUPPLIED WITH

One handset, loudspeaker, transceiver unit, cables



RAYMARINE 33STV

Satellite TV Antenna System

The 33STV makes satellite TV reception available to boats as small as 20ft in length. 33STV is HD compatible and comes standard with the Multi-satellite Interface Module which conveniently switches the system across 3 satellites automatically, providing uninterrupted channel surfing just like a home satellite TV system. The antenna control unit can connect with up to 6 onboard satellite receivers via USB.



KEY FEATURES

- High performance compact antenna
- Only 14in diameter, weighs less than 4.5kg
- Channel Surf without Delay - Fast Tracking
- Built-in HD Module
- Wide Power Supply Range: DC 9V~ 31V
- Easy & Simple Installation
- NMEA 0183 GPS Interface

ALL MODELS SUPPLIED WITH

Antenna, Antenna Control Unit. You will need to purchase and activate a DVB compatible satellite TV receiver with the provider of your choice and provide a television monitor or other suitable video display

RAYMARINE 37STV

Satellite TV Antenna System

If you want the benefits of satellite TV onboard, but you've always thought your boat was too small, then the 37STV system is the solution, which will fit on most boats 25-40ft in length.



KEY FEATURES

- All the key features in a small boat package
- Footprint of only 14.5in, weighs only 8.6kg
- Watch on TV, monitor, G Series or E Series display
- Engineered for the harshest marine environments
- Quickly acquires signals from all DVB compatible service providers

RAYMARINE 45STV & 60STV

Satellite TV Antenna System

For DVB satellite TV receivers, the compact, fully automatic stabilised antenna provides uninterrupted reception in almost any conditions. It quickly identifies compatible DVB satellites using a unique Wide Range Search algorithm. Highly accurate satellite tracking at sea is achieved using Dynamic Beam Tilting technology, ensuring a clear picture in the most challenging conditions.



KEY FEATURES

- 45STV footprint only 19.2in, weight is only 14kg
- 23.5in 60STV for vessels of 50ft and above offers greater signal range and improved reception
- Watch on TV, monitor, G Series or E Series display
- Dual LNB Design - watch the weather at the helm while others watch TV down below
- Supports multiple receivers

RAYMARINE RAY55E

DSC VHF Radio

The Ray55E features rotary controls for volume, squelch and menu operation and an extra large LCD display. The fistmike includes integrated channel controls and an inbuilt speaker. The Ray55E is also expandable to 2 stations with full duplex intercom capability using the optional Raymic Full Function Handset.



KEY FEATURES

- Position, COG & SOG display via NMEA input
- Chartplotter position polling
- Favourite channel softkeys
- Dual Channel Display shows active and stand by channel simultaneously
- All Scan, Saved (Memory) Scan, Priority All Scan and Priority Saved Scan
- Submersible (IPX7) rugged housing
- Low profile bezel, optional flush mount kit

ALSO AVAILABLE

- Ray218 - Adds an inbuilt 30 Watt Hailer with "Listen Back" capability and automatic foghorn to the features of the Ray55E



SUPPLIED WITH

Radio, microphone, sun cover, mounting bracket, power/speaker/data cable

RAYMARINE RAYMIC

Remote Station Handset

Add full function remote control of the Raymarine Ray55 and Ray218 VHF radios with the Raymic remote station handset.

KEY FEATURES

- Full control of all features and functions of the Ray55 and Ray218 VHF radios
- Extra large dot matrix LCD
- Speaker microphone
- Submersible (IPX7 Standard)
- Full duplex intercom between stations

SUPPLIED WITH

Handset, cradle





Fishfinders & Chartsonars

HUMMINBIRD 570

5in Dual Beam Mono Fishfinder

Outstanding performance and incredible value come together in the Humminbird 570. Take advantage of the versatile DualBeam Sonar with exclusive Humminbird SwitchFire technology, sensitive enough to track a jig down to 70 feet and separate fish as close as 2.5in apart. Enable Humminbird's Fish ID+ target identification system to convert sonar returns into easy-to-read icons. In-dash mount, or use the Tilt & Swivel Disconnect Mounting System.



KEY FEATURES

- Display: 5in 240x240, FSTN LCD 12 Level Grayscale
- Sonar: Dual Beam 200/83kHz
- Power: 2400W PTP, 250W RMS
- Depth: 800ft/250m

HUMMINBIRD PIRANHAMAX 160 & 190C

3.5in & 4in Ultra-Compact Fishfinders

With one touch you can take advantage of the advanced PiranhaMAX Series fishfinders. Unlock the power of Fish ID+, fish alarms, depth alarms and zoom. You won't believe how easy it is to put the high-performance sonar to work for you. Simply mount your PiranhaMAX in-dash, and let the Transflective Color TFT or contrast enhanced, Clear Edge Grayscale display show you everything, even in direct sunlight!



KEY FEATURES PIRANHAMAX 160

- Display: 4in 160x128, FSTN LCD 4 Level Grayscale
- Sonar: DualBeam 200kHz/83kHz
- Power Output: 800W PTP 100W RMS
- Depth: 600ft/180m
- **NEW FOR 2011** - now available as a portable version

KEY FEATURES PIRANHAMAX 190C

- Display: 3.5in 320x240, 256 colour TFT
- Sonar: SingleBeam 200kHz
- Power Output: 1600W PTP 200W RMS
- Depth: 800ft/250m

HUMMINBIRD 788ci HD

5in Combination Chartplotter and Sonar

The 788ci HD DI Combo features a Best-In Class High Definition 640x640 5in display, DualBeam PLUS and Down Imaging sonar with 4000 Watts PTP power output, GPS Chartplotting and advanced Fishing System capabilities. In addition, it includes dual card slots for maps and saving waypoints, as well as three programmable preset buttons to save your favorite views.

KEY FEATURES

- 5in 640x640 256 colour TFT
- DualBeam PLUS 200/83kHz
- 4000W PTP, 500W RMS
- Depth 1500ft/45m
- 50 channel GPS
- Trackplotting, chartplotting
- Humminbird Unimap
- 3000 waypoints, 50 routes
- 50 tracks with 20,000 points each
- Dual SD Card Slots
- Upgradeable Software
- Optional Weathersense, Wireless Sonar link, CannonLink & InterLink network modules
- Navionics Gold & HotMaps compatible



NEW FOR 2011

HUMMINBIRD 597ci HD DI

5in Combination Chartplotter and Sonar

Features a Best in Class brilliant colour 640x640 5in display. Down Imaging and Single Beam Sonar with 4000 Watts power output, 50 channel internal GPS Chartplotting with built-in UniMap cartography, a card slot for maps and saving waypoints and a Tilt & Swivel Quick Disconnect Mounting System. The new design also allows drop-in replacement capability for competitive in-dash models.

KEY FEATURES

- Freeze Frame with ability to Mark Structure on Sonar
- Real Time Sonar RTS Window
- Selective Fish ID
- Sonar Echo Enhancement
- Split Screen Zoom
- Custom Digital Readout Selection
- Large Digits View
- Selectable Background Colour
- X Press Menu System



NEW FOR 2011

HUMMINBIRD 385ci

3.5in Combination Chartplotter and Sonar

The Humminbird 385ci is designed for those who demand top-of-the-line technology, but don't have space for a bigger fishfinder. With oceans of new features, the 300 Series performs way beyond its size, and is right at home in the most extreme fishing situations. With exclusive SwitchFire™ technology you'll get the most out of the DualBeam Sonar that gives you wide coverage with the best picture of the bottom. It's powerful sonar technology built into a pint-size package. With internal GPS and built-in UniMap™ you'll be able to pinpoint your position with ease. A built-in card slot allows you to upgrade with a Navionics chart card for enhanced navigation and map detail.

KEY FEATURES

- 3.5in 320x240 256 colour TFT
- Sonar: DualBeam 200kHz/83kHz
- Power Output: 2400W PTP, 300W RMS
- Depth: 1000ft/300m
- **NEW FOR 2011** - now available as a portable version



HUMMINBIRD 798ci SI HD

5in Combination Chartplotter and Side Imaging Sonar

This powerful fishfinder is packed with professional technology. With exclusive Humminbird SwitchFire, Side Imaging and Down Imaging and DualBeam PLUS dual frequency technology, you have more fishfinding options than ever. It's the first sonar that adapts with your fishing conditions. Detail explodes off the 5in display, with amazing 640x640 pixel clarity, unbeatable colour and contrast. Programmable preset buttons put your favorite views at your fingertips. Mount it in-dash, or use the Tilt & Swivel Quick Disconnect Mounting System. Add Navionics Gold or Hotmaps cartography using the dual SD card slots.

KEY FEATURES

- 5in 640x640 colour TFT display
- DualBeam PLUS™ 200/83kHz
- Side Imaging and Down Imaging 455kHz, 180° total coverage
- 4000W PTP, 500W RMS
- Depth 100ft/30m (SI), 1500ft/450m
- Memory: Dual SD Card Slots
- Upgradeable Software
- Navionics Gold & HotMaps compatible



NEW FOR 2011



We accept most major credit and debit cards



Chartsonars and Chartplotters

HUMMINBIRD 898C SI

7in Widescreen Chartplotter and Side Imaging Sonar

This impressive combi unit is a blend of form and function, with a generous 7in screen, featuring a 16:9 aspect ratio and incredibly clear picture quality. With Humminbird Side Imaging, Down Imaging and SwitchFire Sonar, the 800 Series puts you in control of the most versatile fishfinding system on the water. Exclusive Humminbird ContourXD cartography, GPS track and chartplotting and any of the Humminbird network modules.



KEY FEATURES

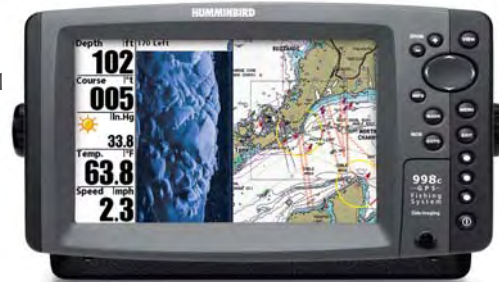
- 7in 800x480 TFT display
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz, 180° total coverage
- Optional 200/50kHz transducer
- 8000 Watts (PTP), 1000 Watts (RMS)
- 150ft/45m (SI), 1500ft/450m, 3000ft/900m with optional 50kHz transducer
- Memory: Dual SD Card Slots
- Upgradeable Software

NEW FOR
2011

HUMMINBIRD 998C SI

8in Widescreen Chartplotter and Side Imaging Sonar

With the screen's 16:9 aspect ratio, crystal-clear pixel resolution, and Humminbird Side Imaging, Down Imaging and SwitchFire Sonar systems, these high-performance units give serious anglers a huge on-the-water advantage. The widescreen display makes for easy-to-read split screen viewing of sonar displays or the incredibly detailed optional cartography. Add on the powerful HumminbirdPC software, and you've got an all-in-one tool to dominate the competition.



KEY FEATURES

- 8in 800x480 TFT display
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz, 180° total coverage
- Optional 200/50kHz transducer
- 8000 Watts (PTP), 1000 Watts (RMS)
- 150ft/45m (SI), 1500ft/450m, 3000ft/900m with optional 50kHz transducer
- Memory: Dual SD Card Slots
- Upgradeable Software

NEW FOR
2011

HUMMINBIRD 1198C SI

10.4in Widescreen Chartplotter and Side Imaging Sonar

The 1198c SI Combo features a huge 10.4in display, Side Imaging and DualBeam PLUS sonar with up to 8000 Watts PTP* power output, GPS Chartplotting with built-in ContourXD maps, and advanced Fishing System capabilities. Includes unit cover and in-dash mounting kit. Maximise your angling experience with the Humminbird 1198c SI Combo fishfinder system.

* Requires the use of the optional 1KW (8000watt) transducer.

KEY FEATURES

- 10.4in 800x600 TFT display, 65,000 colours
- DualBeam PLUS™ 200/83kHz
- HD Side Imaging and Down Imaging 455/800kHz, 180° total coverage
- Up to 8000 Watts (PTP), 1000 Watts (RMS)
- Optional 200/50kHz transducer
- Max Depth 450m/1500ft (900m/3000ft with optional 50kHz transducer)
- Max Depth (Side Imaging) 150ft/45m
- Memory: Dual SD Card Slots
- Upgradeable Software

NEW FOR
2011



GEONAV 3/3S

Handheld GPS Navigator

The Geonav 3 & 3S are powerful but compact handheld marine GPS navigators with Navionics compatibility (Gold recommended, but will take some Platinum+, check with Navionics) and it also functions as an in-car satnav. Clear, bright 2.2in colour TFT display. The Geonav 3S model also includes a magnetic compass and barometer.



KEY FEATURES

- Compact, lightweight all in one solution
- 2.2in transfective TFT display (240x320 pixel)
- Navionics Gold and Platinum+ compatible
- Rechargeable lithium battery, 9hr battery life

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

GEONAV 5 TOURING

5in Colour Navigator/Fishfinder

An innovative unit which combines a chartplotter, fishfinder and in-car navigator in one package. Features an inbuilt 12 channel WAAS-EGNOS GPS and world map, just add the F170 black box sounder for fishfinder functionality.



KEY FEATURES

- Marine chartplotter, fishfinder and in-car satnav
- Navionics Land&Sea, Platinum and Land & Sea Platinum chart compatible
- Save unlimited markers, routes and waypoints on CompactFlash cartridge

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

GEONAV 7 WIDE

7in Colour Chartplotter/Fishfinder

Featuring a sunlight view transfective TFT LCD display guaranteed against fogging and condensation and an inbuilt 12 channel GPS. Data windows are optimised for intuitive control and the split screen function enables chart and fishfinder data to be displayed simultaneously. The unit can be linked to the Geonav F170 black box fishfinder.



KEY FEATURES

- 2D or 3D cartography, built-in world map
- Waterproof (IPX6), panel, bracket or flush mounting
- Acoustic Anchor Alarm
- Autozoom™, Easy View
- EBL/VRM, Runway display
- Overzoom and Screen Amplifier™

SUPPLIED WITH

NMEA power supply cable, Quick-mount bracket with snap-on socket, sun cover

Turn to the back page for pricing and ordering info NOW!

FURUNO NAVNET 3D

Multifunction Navigation System

A groundbreaking navigation system that introduces new concepts in user interface design that makes this powerful system easy to use. NavNet 3D introduces a new dimension to charting with Full Time 3D chart rendering - choose traditional 2D top-down view or pan/zoom the chart to any 3D angle instantly - there's no delay switching to "3D mode" as with other chartplotters as NavNet 3D operates in this 3D environment at all times. The cutting edge "Time Zero" technology gives instant chart zoom, panning and display mode changes seamlessly with no lag.

With NavNet 3D's true 3D environment, you can see all the information you want - radar overlay, AIS, chart symbols, depth soundings etc. Choose the type of charts you want to view - raster, vector or combine them with Furuno's Satellite Photofusion charts, giving unprecedented control over your charting environment.

FURUNO MFD8 & MFD12

NavNet 3D 8.4in & 12.1in Combi Displays

Choose between an 8.4in or 12.1in colour sunlight-viewable displays with high brightness and anti-reflective glass coating that allows use even in direct sunlight. The low profile design is ideal for flush mounting or can be bracket mounted.



KEY FEATURES

- Choice of an 8.4in TFT 640x480 pixel (MFD8) or a 12in TFT 800x600 pixel (MFD12) display
- Jeppesen C-Map On Board Charts
- Stores up to 2,000 waypoints, 200 routes of 100 waypoints per route
- Head up, course up, North up, relative motion or true motion display modes
- True 3D environment for a more instinctive chart presentation
- Simple, intuitive operation with Rotokey & Scrollpad
- Dedicated 3D button - toggle between 2D perspective and favourite 3D angle
- High-resolution satellite photography can be fused with raster or vector chart information, viewable in 2D or 3D
- No preset chart scales - zoom to the exact magnification level you wish
- Ultra High Definition (UHD) Digital Radar
- 3D chart-radar overlay (requires sat compass input)
- Furuno Digital Filter (FDF) Fish Finder

FURUNO NAVNET 3D BB

NavNet 3D Black Box System

If NavNet 3D sounds right for you, but you want a bigger display, then the NavNet 3D BB system offers all the features of the MFD8/MFD12, linking a powerful NavNet3D black box processor with a range of LCD displays, from 12.1in up to 19in. Control is via a separate dedicated control keyboard.

NavNet 3D BB is compatible with all the peripherals available to the MFD8 & MFD12 systems - radar, digital sounder, AIS, satellite compass, weatherfax etc.

KEY FEATURES

- 12.1in SVGA marine monitor, 800x600px
- 15in XGA marine monitor, 1024x768px new HD version
- 17in SXGA marine monitor, 1280x1024px
- 19in SXGA marine monitor, 1280x1024px
- Dedicated control keyboard



Find out more...

TimeZero®

NavNet 3D's cutting-edge TimeZero

technology offers seamless chart redraw, allowing zooming, chart panning, changing chart display modes and other chart handling functions without limited range presets. TimeZero brings you a truly seamless navigation environment you have to see to believe. For the ultimate in flexibility and the fastest NavNet 3D redraw, look to the Black Box series (MFD8BB), which features a super-charged graphics processor.



Ultra High Definition (UHD)™ Digital Radar

NavNet 3D integrates Ultra High Definition Digital Radar giving fully automatic, high-precision Gain and Sea Clutter and Tuning Control for hands-free operation and ultimate performance. One of the amazing features of Furuno UHD Digital Radar is a fully independent "Real-Time" dual range radar display, which scans and displays two different radar ranges simultaneously with no lag at all. UHD Digital Radar is fully integrated into NavNet 3D's revolutionary TimeZero technology, facilitating real seamless radar zoom without any display blackout. Also, the high-resolution radar image can be perfectly overlaid over NavNet 3D's native 3D chart in both 2D and 3D formats. All of these greatly enhance your situational awareness.



Furuno Digital Filter (FDF) Fishfinder

Furuno Digital Filter fish finders feature advanced filtering capabilities and digital auto tuning, which eliminates noise, while delivering the ability to spot individual fish with clarity, accuracy and detail. Whether it is used for shallow or deep water, Furuno FDF fish finder gives you what you would expect from a fish finder at all times.



RotoKey™

This is NavNet 3D's revolutionary control that merges the power and versatility of soft keys with an easy-to-use rotary knob. One turn of the RotoKey™ gives you instant access to full control of NavNet 3D. The RotoKey™ is designed as a part of NavNet 3D's scalable operating system; a short press of the RotoKey™ gives you access to a user-selected set of the functions that you select upon installation from Basic, Standard, Full or Custom, while a longer press of the key displays all of the functions available. Never leave your navigation screen to enter a menu again!



We accept most major credit and debit cards



NavNet 3D Navigation System Peripherals

FURUNO FA30

AIS Module

The FA30 brings AIS to Furuno NavNet 3D systems. Real time AIS information can be incorporated into radar or chartplotter displays, including Closest Point of Approach and Time to Closest Point of Approach which aids in recognising possible collision dangers.



KEY FEATURES

- Targets displayed with SOG/COG vectors
- Dual parallel channel, "Full Duplex" receiver design receives AIS contact messages up to 100% more often than dual channel "Multiplexing" receivers
- High sensitivity, synthesised receiver automatically switches between international & local AIS channels
- PC interface via Ethernet connection
- Supplied with AIS Viewer software
- NMEA0183 output to third party systems

FURUNO FA50

Class B AIS Transponder

The FA50 is a Class B AIS transponder capable of exchanging navigation and ship data between own ship and other ships or coastal stations. It consists of a transponder unit with GPS antenna. A VHF antenna is required and should be supplied separately. The transponder contains a VHF transmitter, two TDMA receivers on two parallel VHF channels and internal 12 channel SdGPS receiver.



KEY FEATURES

- Receives both Class A and Class B AIS information
- Complies with IMO MSC. 140(76) Annex 3, A.694, ITU-R M.1371-2 and DSC ITU-R M.825-3 and also IEC 60945 (EMC and environmental conditions)
- Enhances safe navigation by exchanging critical navigation info from AIS-equipped vessels nearby
- Greatly improves your situational awareness even in fog, darkness or congested waterways
- PC interface via Ethernet connection
- Supplied with AIS Viewer software
- NMEA0183 output to third party systems

FURUNO FAX30

Weatherfax & Navtex Receiver

Turn any NavNet display or PC into a paperless Weatherfax and dual frequency Navtex receiver.



KEY FEATURES

- Show Navtex & weather info on NavNet display
- Web browser navigation on PC, no proprietary software required
- Store up to 12 weatherfax images
- Store up to 130 Navtex messages
- 320 user programmed channels
- Noise rejection for clear image
- 1,000 channels

FURUNO DFF1

Digital Sounder Module

Turn any NavNet display into a powerful, dual-frequency digital fish finder with FDF (Furuno Digital Filter) signal processing technology. Compatible with NavNet, NavNet VX2 and NavNet 3D. Obtain detailed echoes of bottom structure and fish.



KEY FEATURES

- Output power 1 kW
- Furuno Free Synthesizer (FFS) allows for selectable operating frequency of 28 to 200 kHz
- Dual frequency, alternate transmission
- Compatible with Airmar transducer ID technology
- Heaving compensation with SC-30/50/110
- Variable Transmission Rate
- Dedicated 6-pin temperature sensor port available
- WAGO connection for ease of installation

FURUNO SC30

Satellite Compass



An evolutionary 2-antenna satellite compass that provides highly accurate attitude data to equipment such as radars, chartplotters, autopilots, AIS etc. The all-in-one design integrates perfectly with all NavNet 3D system and the F150 instrument display, but NMEA2000 output means it can also be used with any compatible third party equipment.

KEY FEATURES

- Heading accuracy of 1.0°rms
- Short start-up time of 3 minutes
- Follow-up rate of 45°/s exceeds requirements for high speed craft
- NMEA2000 interface standard

FURUNO SC50

4.5in LCD Satellite Compass



GPS-based compass offers unrivalled accuracy of up to 0.8°, ideal for Radar, AIS, ECDIS or any equipment that normally requires a gyrocompass.

KEY FEATURES

- Four display modes - Compass Rose, Steering, Nav Data and Heading
- Tri-antenna reduces effect of roll, pitch and yaw
- Heading output in NMEA0183, IC 61162-1 and AD-10 (25ms update)
- Short settling time - only 4 minutes

ALSO AVAILABLE

- SC110 Satellite Compass

FURUNO NAVNET 3D RADAR

Digital Radar

NavNet 3D's Ultra High Definition (UHD) Digital Radar technology sets a new standard in marine radar. With a highly advanced digital sensor and signal processing technologies, UHD Digital Radar greatly enhances situational awareness.



KEY FEATURES

- Enhanced detection both in long and short range
- Enhanced auto tuning, gain and anti-clutter controls
- 48rpm rotation speed for HSC and river applications
- Adaptive rotation speed according to pulse length
- Accurate radar overlay on both 2D/3D chart presentation with aid from heading sensors
- True echo trail shows afterglow of moving targets
- True Colour Radar shows density of targets (32 colour levels for the MFD8 and MFD12, 256 colour levels for the MFD8B)
- Radar Guard Zone and Watchman features
- Dual VRM and dual EBL
- Off-centre display capability allows you to focus on specific direction with a simple cursor pad press
- Automatic IP address assignment for true Plug and Play installation

Tech info

Furuno UHD Radar Scanners

When ordering your radar system you'll need to specify the antenna you require -

Part No.	Size	Power	Type	Range
DRS2D	19in	2.2kW	RD	24nm
DRS4D	24in	4kW	RD	36nm
DRS4A	3.5ft	4kW	OA	48nm
DRS6A	4ft	6kW	OA	64nm
DRS12A	4ft/6ft	12kW	OA	72nm
DRS25A	4ft/6ft	25kW	OA	96nm

RD - Radome Antenna (enclosed)

OA - Open Array

FURUNO PG700

Integrated Heading Sensor

Fluxgate magnetic sensor which offers enhanced stability and accuracy by means of a solid-state rate gyroscope.



KEY FEATURES

- Heading accuracy +/-0.5°RMS
- Compact unit with L-bracket for flexible installation
- Automatic magnetic field distortion correction
- Precision heading data to Furuno CAN bus devices

FURUNO BBWX1

Sirius Satellite Weather Receiver

Live, up-to-date weather info and forecasting. US only.

KEY FEATURES

- Chart overlay
- Weather reports
- High res weather radar imagery
- High res sea surface temperature images



NavNet 3D Navigation System Compatibles

FURUNO RD33

Data Display

Navigational data organiser that lets you select the perfect way to display text data from interfaced equipment such as GPS, navigation, autopilot, instruments, engine info and more. The screen bright, crisp display is easy to read. Various display modes are available including Speedometer, Highway and Text.

The RD33 can also be added to a NavNet 3D system, displaying a variety of navigation data from the CAN bus network.



KEY FEATURES

- 4.3in sunlight viewable colour LCD
- Large characters and high resolution display
- Customisable display format from Full-screen to a 6-way split screen presentation
- Supports both CAN bus and NMEA0183 interfaces - requires cable
- Two CAN bus input/output ports incorporated for daisy chain networking
- Internal NMEA0183/CAN bus conversion capability available
- Simultaneous alarm monitoring capabilities for Water Temp, Depth, Speed, Arrival, Anchor, XTE, Trip, Odometer, Timer and Countdown Timer, Roll & Pitch, Wind Speed, Wind Direction, and Battery.

FURUNO NAVPILOT 700

Autopilot System

Powerful inboard autopilot system with a choice of three control heads and drive options for inboard or outboard power boats and sail boats. The Navpilot 700 easily integrates with the NavNet 3D network and FI50 instruments.



KEY FEATURES

- CAN bus interface offers simple networking with NavNet 3D systems
- CAN bus interface allows devices to be incorporated into a NMEA2000 network
- Simplified activation set-up by on-screen wizard
- Simple one-touch mode selection enables flexible steering and course control
- NMEA0183 interface available
- Perfect cosmetic match with NavNet 3D and FI50 Instrument series

FURUNO FI50

Instrument System

The Furuno FI50 instrument system is designed to meet the needs of all sail and power vessels, providing a wide variety of precise information even under the harshest conditions and enhancing your safety at sea. Fully Plug and Play, each display uses standard NMEA2000 connectors and cabling and can be integrated with any NavNet 3D or other NMEA2000 compatible system.

KEY FEATURES

- Bright backlit displays with wide viewing angles
- Auto-Backlighting feature minimises power consumption
- NMEA2000 interface offers "Plug and Play" networking
- Easy installation with flush-mount design
- Ideal for mast or bulkhead mounting configurations
- White face "F1 Style" gauges provide maximum contrast and visibility
- Organic Light Emitting Diode (OLED) backlighting reduces power consumption

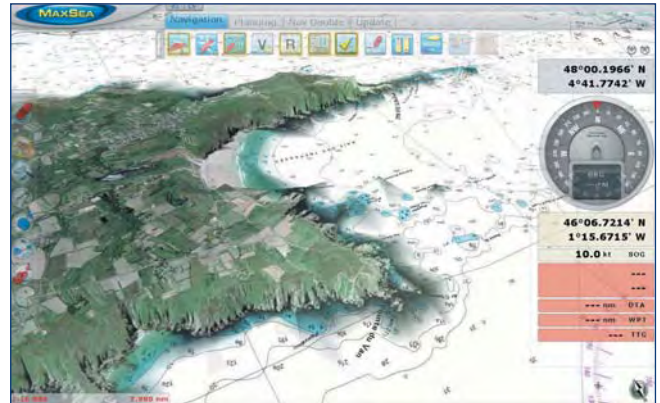
INSTRUMENTS AVAILABLE

- Multi - multifunction digital display with large, clear characters
- Digital - multifunction three-line digital combination display
- Wind - analogue 360° wind display
- Close Haul - analogue close hauled/running display
- Course Pilot - analogue compass/steering display
- Rudder - analogue rudder angle display

MAXSEA TIMEZERO

Navigation Software

MaxSea TimeZero takes PC Chartplotting to the next level, allowing you to navigate in ways never before possible. It reacts instantaneously in a fully rendered 3D environment, delivering unparalleled speed and a seamless chart plotting experience. Switch from 2D to 3D view at the click of a mouse. Scroll, pan, zoom in and zoom out with a smooth, fast and seamless graphics engine. Navigating in a fully 3D environment offers you a true perspective and wider area of view around the ship. MaxSea TimeZero also gives full control of your NavNet 3D system directly from your PC. Now you can access and control information from your NavNet 3D network, such as Radar Overlay, Waypoints, Routes and more directly on your PC.



KEY FEATURES

- Advanced weather & oceanography data, seamless integration with NavNet3D
- Updates the information on your screen with virtually no redraw.
- Fuse satellite images with the chart - a feature unique to MaxSea TimeZero
- Compatible with the new MM3D C-Map vector charts.
- First PC charting software to offer ActiveCaptain Points-of-Interest integration and real-time updating
- Integration with FLIR M-Series Camera (Explorer only)
- AIS compatible via NMEA0183 or Furuno Ethernet AIS
- DSC compatible - display Position Request and Distress Call directly on chart
- Online Support personalised weather downloads, chart and software updates, training and technical support available 24 hours a day at www.MaxSea.com

SYSTEM REQUIREMENTS

- Windows XP, Windows Vista or Windows 7
- 2 GHz Processor (Intel Core2Duo highly recommended)
- 2 Gb RAM
- CD/DVD-ROM drive for installing software and charts
- 20Gb of hard drive space for software (up to 5Gb for charts)
- Dedicated ATI or NVIDIA video card with 256Mb RAM (512Mb recommended) Integrated chipsets are not supported
- 1024 x 768 display, 16 Bit (32 Bit recommended)
- Serial or USB ports, Ethernet 10/100 Base-T for NavNet 3D connection



We accept most major credit and debit cards



Navigational Equipment

FURUNO M1623

6in Mono LCD Radar

BEST SELLER! A great value high contrast, low power consumption LCD radar which gives detailed images of coastline and targets at short ranges thanks to narrow pulse lengths and dual IF bandwidths.

In the Watchman mode, the antenna is stopped and the screen displays nav data only. The radar wakes up at a specified time interval and operates for 1 minute. If a target enters the guard zone, an alarm sounds and the radar goes into its normal operating mode. The alarm may also be set to trigger if a target leaves the guard zone.

KEY FEATURES

- 15in 2.2kW radome, max range 16nm
- Excellent screen clarity, day and night modes
- Normal, Off-Centre & Watchman operating modes
- EBL, VRM, TLL output (Target Lat/Long), Cursor Lat/Long input/output, Echo Trail, Guard Zone Alarm

OUR VERDICT

The best radar you'll pick up for this price. Great performance and excellent value for money.



- 12 range scales
- Interface with GPS and chart plotter
- Waypoints displayed as "lollipop" marks
- Automatic receiver tuning
- Automatic sensitivity and anti-clutter controls

SUPPLIED WITH

2.2kW 15in radome antenna & 10m cable

FURUNO GP33

Fixed GPS

This advanced unit provides accurate and reliable position fixing and displays navigation data in a wide variety of numerical and graphical formats.



KEY FEATURES

- 4.3in Sunlight Viewable colour display
- Large characters and high resolution display
- Store up to 10,000 marks/waypoints, 100 routes and 3,000 track points
- 7 display modes including 2 user-customised
- NMEA0183 and NMEA 2000 compatible interface

SUPPLIED WITH

12 channel SdGPS antenna

FURUNO NX300D

Dual Mode Navtex Receiver

One of our most popular products, this compact dual frequency (518/490kHz) unit has a high contrast 4.5in display and receives current and early warning weather reports and navigation alerts worldwide, within 200-400nm of shore.



KEY FEATURES

- Printout available via PC
- Can be used as a Nav data repeater
- Low power consumption

SUPPLIED WITH

Antenna

FURUNO FCV620 & FCV585

5.6in & 8.4in LCD Colour Fishfinders

High performance dual frequency fishfinders with wide angle sunlight viewable displays. Selectable single, dual, zoom and Nav data modes.



KEY FEATURES

- **FCV620** - 5.6in display, 600W output
- **FCV585** - 8.4in display, up to 1kW output (requires MB-1100 matching box)
- Rotary knobs for gain and mode select
- Digital filter adjusts gain, STC and output power
- Cruising and fishing auto modes
- Fast pulse transmission rate for shallow water
- TLL output for GPS plotter display
- 8/16/64 colour echo presentation
- Customised nav data display
- Swivel mount bracket or flush mountable

FURUNO LS4100 & LS6100

5in & 6in LCD Mono Fishfinders

Easy to use 50/200kHz dual frequency 5in (LS4100) and 6in (LS6100) fishfinders with high resolution mono display. 300W RMS power, maximum depth 500m



KEY FEATURES

- White Line and "Sea-Through" technology
- Bottom lock fish alarm
- Speed & wind data if interfaced with relevant sensor
- Mini-navigator feature provides 12 "goto" waypoints with programmable names

SUPPLIED WITH

Transducer must be specified when ordering

COMMERCIAL SYSTEMS

Below is just a small selection of the full range of Furuno commercial deepsea equipment available:

- X and S-Band radar
- Communications - VHF, SSB, GMDSS, Satcoms
- Sonar and fishfinders
- AIS Class A & B
- ECDIS

FOR FURTHER INFORMATION PLEASE CONTACT US.

FURUNO FAR21x7

Commercial X Band Radar System

Designed to meet the exacting standards of the IMO for ships between 1000-10000 GT. The 20.1in colour DVI-D LCD display gives an effective picture diameter of over 250 mm, providing crisp radar echoes. Selectable colour with day or night background colour for observation all lighting conditions.

Choose from a range of 4, 6.5 & 8ft antennas. For X-band, the rotation speed is selectable from 24 rpm for standard radars or 42 rpm for HSC. The S-band FAR-2137S is available with 10 or 12ft antennas.



KEY FEATURES

- Multi-level quantisation (MLQ), echo stretch, echo average and radar interference rejecter
- Easy operation by customisable function keys, trackball/wheel palm module and rotary controls
- Meets ITU-R unwanted emission standards
- Standard ARPA functions, 100 target acquisition
- Display up to 1000 AIS symbols

FURUNO FELCOM 250/500

FleetBroadband Satcom Systems

Cost-effective maritime broadband data and voice communications on a global basis. Constant simultaneous access to voice and multiple high-speed data services. Obtain weather and chart updates online to optimise route planning and monitoring tasks plus internet, e-mail and VoIP calls all via a single terminal.



KEY FEATURES

- Simultaneous voice and high-speed data comms
- Global coverage (except for polar regions)
- IP handset and IP-PBX incorporated
- Supports multiple IP handsets & wireless IP phones
- Integrated Web server
- Simplified installation with compact antenna unit
- 284 kbps (FELCOM250), 432 kbps (FELCOM500)
- Guaranteed streaming data rates on demand, rates selectable from 32, 64, or 128 kbps
- 4kbps cost-effective, landline quality speech
- SMS (up to 160 characters) and voice mail

Turn to the back page for pricing and ordering info NOW!

ECHOPILOT 2D

Colour Forward Looking Sonar

The EchoPilot FLS 2D offers all the best features of the EchoPilot forward sonar range, now displayed on a full colour transfective TFT LCD with a 7in viewable area. The benefits of colour include being able to gain more information about the nature of the sea bed. Stronger echoes give different colours. Alternatively the colours can be set to correspond to depth. Simple digital sounders show historical data, they may show a depth which is 10-15sec out of date and represents the seabed your boat passed over a hundred metres ago. The digital depth on the 2D is an average of the first one third of the screen ahead and so is far closer to the reality of what is under your boat right now.

KEY FEATURES

- Max Range Ahead 200m
- Max Depth Range 100m
- Digital Depth
- Forward Alarm
- Optional Swivel Bracket
- Multiple Display Options
- NMEA Depth Output

**NEW FOR
2011**



SUPPLIED WITH

Power and NMEA cable, data cable, standard plastic transducer (bronze professional model also available), through-hull fitting and blanking cap, protective cover

ECHOPILOT 3D

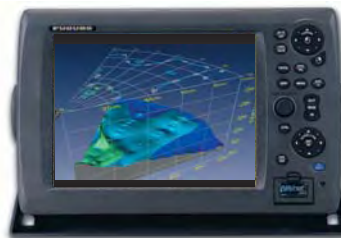
BB Colour Forward Looking Sonar

Black Box FLS which displays a 3D representation of the waters ahead of the boat. Seabed terrain and potential hazards are shown for the first time with unparalleled realism. You see a real time sonar image of what is actually ahead, not a chart rendered into 3D. Twin retractable transducers ensure complete forward coverage whatever the hull form. The screen updates every 1-2 seconds depending on the range setting.

KEY FEATURES

- 200m forward range, 100m depth range
- 200KHz twin retractable transducers
- Beam width 90° vertical, 60° horizontal
- Multiple display options (display not supplied)
- Multiple display viewpoints
- Ethernet style transducer connection (allows data cable of up to 150m)
- 12 or 24v operating voltage
- Full HD capable
- DVI, VGA, S-Video and Component Video outputs

**NEW FOR
2011**



SUPPLIED WITH

Transducer interface box, visual processor box, twin retractable transducers, control unit

ECHOPILOT PLATINUM

Colour Forward Looking Sonar

Powerful FLS with superior range and performance. The use of colour enables enhanced seabed interpretation - the target colour depends on its hardness and the strength of its return echo. The Platinum is NMEA compatible and can display GPS data. Flush mount or optional bracket for wheelhouse use.



KEY FEATURES

- Large colour sunlight-viewable display
- 200m forward range
- Optional wireless link between transducer and instrument for ease of installation
- Optional computer output

SUPPLIED WITH

200kHz professional transducer with 12m cable

ECHOPILOT PLATINUM VIDEO

BB Colour Forward Looking Sonar



Black box colour forward sonar which links with third party combi displays with a composite or S-Video input. Available in two versions - a video interface box to connect an FLS Platinum to a combi display, or a complete black box solution comprising transducer, skin fitting, cables, electronics and control keypad.

KEY FEATURES

- 200m forward range
- Forward Alarm
- Digital Depth
- Speed Option
- Built in GPS Repeater
- NMEA Compatible

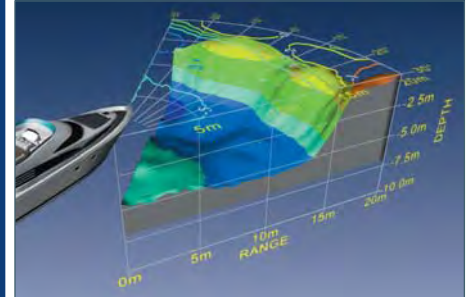
**EXPERT
ADVICE**



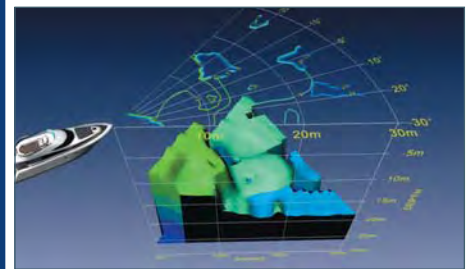
Find out more...

Real Time Forward Looking Technology Explained

Real Time means that the FLS doesn't gradually build up a picture, instead it scans the whole forward view and updates the screen several times a second. An obstruction ahead of the boat will be shown immediately.



The FLS displays a profile of the seabed below and 3-5 times that depth ahead of the vessel on a flat muddy bottom. This increases to 8 or 9 times if the seabed shoals upward and more than this for a large target. Rocky bottoms give especially strong reflections and hard vertical surfaces like quay walls or reefs will often be seen at 150m or more.



In the vertical plane the FLS scans through 90° from straight ahead to straight down. The FLS is not designed to be a fishfinder, it is a collision avoidance device. In reality it does pick up larger fish and sometimes shoals of smaller fish.

ECHOPILOT BRONZE

Forward Looking Sonar

If you're stuck for space but still want to fit an FLS, the EchoPilot Bronze is ideal, contained in a standard 110x110mm instrument-sized case with the latest transfective LCD technology.



KEY FEATURES

- Simple two key operation
- Forward range 100m, depth range 50m
- Forward alarm
- Optional professional transducer for long keel boats over 35ft

SUPPLIED WITH

200kHz standard or professional transducer with 12m cable



We accept most major credit and debit cards



AIS & Instruments

ECHOPILOT EASYRESCUE

AIS SART

easyRESCUE is a personal AIS transmitting beacon with inbuilt GPS. When triggered, it transmits an emergency AIS-SART sentence which triggers an alarm on all AIS enabled vessels within range, along with your current position which will be displayed as a marker on AIS-equipped chartplotters. The GPS is a new generation fast acquiring type and the VHF AIS transmitter repeats the message and position several times per minute.

KEY FEATURES

- AIS Class B SAR transmitter
- Very compact size
- 2W transmission power
- Inbuilt, fastest at the market GPS receiver
- Waterproof to IP68 standard
- Simple self test for function check
- Personalised "emergency telegram" (Ship's MMSI may also be transmitted)
- Transmission range up to 3nm (dependent on wave and antenna height)
- Battery lifespan 4 years (if not used except for self tests)
- Service interval - after use or after 4 years, whichever comes first
- BSH approved



HOT PRODUCT

ECHOPILOT AIS & AIS-IS

Black Box Dual Frequency AIS Receiver

The Echopilot AIS is a dual frequency AIS receiver that receives both Class A and Class B AIS signals. It makes integrating AIS with your plotter, combi display, PC or laptop simple. Improved drivers and matching allows cable lengths of up to 15m between the Echopilot AIS and chartplotter/ PC without data loss. The Echopilot AIS-IS model features an integral antenna splitter, further simplifying installation.

KEY FEATURES

- Very low power consumption
- NMEA compatible
- GPS data in and out
- Robust metal case, only 140 x 140 x 36 mm



ECHOPILOT TRX-2

Black Box Dual Frequency AIS Transceiver

The Echopilot TRX is a 2nd generation dual frequency AIS transceiver with inbuilt GPS receiver (GPS antenna not included). It receives Class A and B AIS data from other vessels and also transmits your boat's own data, so you can be seen by other AIS equipped vessels. Features a USB port for PC integration and an SD card recorder.

KEY FEATURES

- CPA (Closest Point of Approach)
- Alarm
- SD card recorder
- Silent mode capable
- Fully approved



ECHOPILOT EASY SPLIT & EASY SPLIT OCB

VHF Antenna Splitter

The Easy Split removes the need for a separate VHF antenna for an AIS transponder and allows a single antenna to be shared with a VHF radio. The Easy Split OCB is for Class B AIS installations where the signal is transmitted at 2W, meaning the other equipment must be disconnected very quickly - with the Easy Split OCB, this happens in less than 1millisecond!

KEY FEATURES

- Simplifies installation - no need for two VHF antennas
- VHF antenna input, VHF radio output, AIS output, FM radio output
- Easy Split OCB for Class B AIS installations



ECHOPILOT BRONZE+ SERIES

Instrument Display System

Versatility is the principle of the Bronze Instrument series. Stand alone instruments, they are also fully NMEA compatible and interfaceable. They bring all the features of far more expensive instruments into one neat package and a number of completely unique new ideas too.

All displays are fully functional GPS repeaters, displaying position, BTW, DTW, COG and SOG. The innovative steering screen displays course to waypoint on a simulated compass card and has an off course arrow showing course over ground. Input can be accepted from any other NMEA compatible depth or log, including Echopilot FLS units. NMEA speed, log, depth and GPS information is also output.

The Bronze range uses a transfective, backlit, high definition LCD matrix for maximum visibility in all conditions. The matrix enables the instruments to be menu driven - this way the instruments can be operated simply using just two buttons. The flush mount case is waterproof and matches the Bronze FLS.

ECHOPILOT BRONZE+ TRIO

Combination Log & Depth Instrument Display

Versatility instrument with simple, intuitive menu driven operation with transfective backlit, high definition dot matrix LCD for maximum visibility. The Trio is a combination log and depth unit, but is also a fully functional NMEA repeater and feature an innovative steering screen displays course to Waypoint on a simulated compass card and has an off course arrow showing course over ground.

As the Trio will work with a wide range of third party transducers it's ideal as a replacement if you don't want the cost and hassle of lifting your boat out of the water to change the existing transducers

KEY FEATURES

- NMEA repeater
- NMEA input accepted from any other NMEA compatible depth or log units
- Compatible with many old 150kHz or 200kHz depth transducers
- Compatible with many old paddlewheels



ECHOPILOT BRONZE+ DEPTH

Depth Instrument Display

The Bronze Depth+ is unlike all other existing sounders - it is Multi Frequency, which means that you can select the transmit frequency to match the transducer already installed in your boat, making installation simple.

KEY FEATURES

- Multi frequency functionality
- Available with or without transducer
- Graphical depth history
- Deep/shallow alarm
- Keel offset
- Selectable units - feet or metres
- Built in GPS Repeater
- NMEA Compatible
- Repeater Option
- Compatible with many old 150kHz or 200kHz depth transducers



ECHOPILOT BRONZE+ LOG

Speed/Log Instrument Display

The Bronze Log+ can accept input from either a standard Echopilot paddlewheel transducer, or it can repeat NMEA speed and log data from any other source as well as acting as an NMEA GPS repeater.

KEY FEATURES

- Boat speed, log, trip log, speed history
- Sunlight viewable monochrome display
- Calibration Adjustment
- NMEA Compatible
- Repeater Option
- Selectable units - kts, mph, km/h



Turn to the back page for pricing and ordering info NOW!

Active Radar Target Enhancer, Navtex

ECHOMAX ACTIVE-X

X Band Radar Target Enhancer

Active Radar Target Enhancer (RTE) which dramatically improves your safety at sea by increasing the chances of being seen by on radar by commercial shipping. The unit receives a signal from a transmitting radar, amplifies it and returns a stronger signal.

The operating range is typically up to 30nm, this will vary depending on the height that it is installed, the heel angle of the boat and also the position and power of the scanning vessel's radar system, but independent performance tests by QinetiQ showed a dramatic increase in the visible radar signal when using the Active-X system, and a test by Practical Boat Owner magazine showed that it significantly outperformed competitive Active RTE systems.



KEY FEATURES

- Reception frequency: X band 9.3 - 9.5GHz
- Exceeds ISO 8729-2 performance requirements
- Standby current consumption less than 15mA
- Size of boosted radar signal generated -
 - 0° heel: 111.36m²
 - 10° heel: 78.96m²
 - 20° heel: 20.80m²
- Only weighs 327g (excluding cable)
- External alarm relay

SUPPLIED WITH

Control box, 24m cable (base shown not included)

ECHOMAX ACTIVE-XS

Dual Band Radar Target Enhancer

State of the art Radar Target Enhancer (RTE) which works on both X and S band radar systems, greatly increasing your chances of being seen by large vessel radar systems but it still only draws 23mA on standby. The quadruple alarm indicates whether you are painted by S or X Band radar signal.

KEY FEATURES

- Reception frequency:
 - X band 9.3 - 9.5GHz
 - S band 2.9 - 3.1 GHz
- Exceeds ISO 8729-2 requirements
- Standby current consumption less than 23mA
- Weight 573g (excluding cable)
- External alarm relay

SUPPLIED WITH

Control box, 24m cable

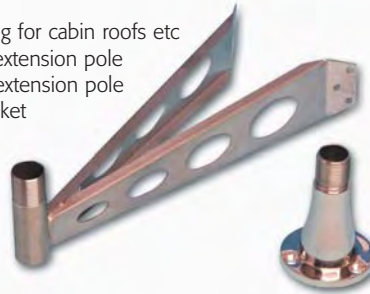


ECHOMAX ACCESSORIES

Mounting Hardware

A range of stainless steel fittings are available:

- Base fitting for cabin roofs etc
- 150mm extension pole
- 300mm extension pole
- Mast bracket



Tech info

Why Fit an Active Radar Target Enhancer?

One of the biggest dangers facing small boats is the risk of being run down by larger commercial vessels, particularly in busy shipping lanes. These large vessels generally rely on radar to inform them of any potential collision hazards, particularly at night or in bad weather where visibility is poor.

Most small boats are built from GRP, composite materials or wood which are poor radar signal reflectors. This, coupled with the fact that most small boats sit relatively close to the water means that it is very difficult for them to be picked up on a ship's radar. Even a yacht at full sail doesn't necessarily present a strong radar target, especially when it is heeled over, which reduces the visible cross-section.

A common solution is the use of passive radar reflectors which are designed to reflect the incoming radar signals more efficiently through the use of angular metallic plates, but these only have limited effectiveness, especially if the incoming radar pulse is weak to begin with.

Active Radar Target Enhancers improve on this by electronically amplifying and re-transmitting the incoming radar pulses, so your small sailing yacht will look like a much larger vessel to any ship within radar scanning range. In independent tests, the radar echo returned by an unheeled boat fitted with the Echomax Active-X RTE was in excess of 110 sq m, certainly big enough for the skipper of any tanker to sit up and take notice!

MOERER WIB2D

Navtex Receiver & Barograph

Smaller than a pack of cigarettes, this dual channel Navtex receiver with inbuilt LCD display and internal antenna shows weather and navigation information. The inbuilt rechargeable battery can last up to three days and it can also be connected to a PC.

KEY FEATURES

- Simultaneously monitors 490kHz & 518kHz
- Display of air pressure trends over the past 48 hrs
- Automatic message decoding
- Charge battery via USB lead, 12V DC cable or optional 230V charger
- Compact - only 103 x 62 x 26.5mm
- Supplied with USB connection/charge cable (optional 12 v and 220v chargers) and software for Windows 2000, XP, VISTA



MOERER WIB2B

PC Navtex Receiver

Innovative dual frequency 490kHz and 518kHz Navtex module with internal antenna no separate antenna required. No software installation is necessary, simply plug into a spare USB port to display the Navtex messages on your PC or laptop. The messages are stored in HTML format and can be viewed via web browser. Compatible with Windows ME, 2000, XP, Mac OS and Linux systems.

KEY FEATURES

- Simultaneous reception on both frequencies
- Includes inbuilt barograph
- Compact - only 90x57x23 mm
- Internal battery will power the unit for approx 3 days without PC
- The battery is recharged via the PC
- Non volatile memory for 762,000 characters
- Optional 12/24V or 230V charger



MOERER WIBE

PC Navtex/Weatherfax Decoder

Black box Navtex and Weatherfax receiver with USB PC connection that enables you to display Navtex messages and synoptic weather charts on your PC or laptop.

KEY FEATURES

- Receives HF Fax, NAVTEX (490 & 518KHz), SYNOP and sea weather forecasts
- Europe-wide weather information from Northwood and DWD
- Built in electronic barograph
- No software to install - works through your web browser
- Memory card slot to store images for viewing on PDAs or monitor
- Low power consumption
- Requires connection to external active antenna (optional) or insulated backstay



MOERER WIB2BX

PC Navtex Receiver

Navtex receiver with PC connection supplied with either a balun antenna adaptor (allowing a long wire or insulated stay to act as the antenna) or a dedicated compact active antenna. Sail boat owners will appreciate the ability to use a stay as an antenna without more masthead antenna clutter.

KEY FEATURES

- Connect to PC via USB interface
- True dual channel receiver - simultaneous reception of both Navtex frequencies
- Inbuilt highly accurate (to 0.1hPa) barograph with 7 day log



We accept most major credit and debit cards



Installation & Commissioning Services

Expert Installation and Support

While all the products we sell come with detailed installation instructions, you can't beat the performance you will get from a truly professional installation. With the benefit of our many years' experience we have a dedicated team which can offer specialist marine electronics design, consultancy, installation and service facilities. Whether it's a sailboat, powerboat, superyacht, fishing or commercial vessel our highly trained installation engineers can offer a worldwide service at extremely competitive rates, along with an unrivalled degree of quality, know-how and craftsmanship.

Design and Consultancy

You wouldn't consider building a house without the services of a building engineer or architect, and the same applies to a sophisticated marine electronics installation. Nowadays, installing a full system on a boat is rarely straightforward as much of the equipment is networked or integrated in some fashion - if this isn't considered from the outset, your equipment may not work to its full potential, or not at all. There are many additional factors to consider that you may not even be aware of, even down to the lengths of cable runs, positioning of sensors and antennas, power supply etc. By viewing the installation as a whole, we can take these critical factors into account. Our design and consultancy team will put together a detailed layout plan which will allow a sophisticated electronics system to be implemented in a cost effective manner and - most importantly - deliver the performance and services that you require.

Installation

We are experts in installation - and interfacing is our speciality! Our engineers are all factory trained electronic technicians as well as having an intimate knowledge of boats. This winning combination of knowledge and practical experience means you'll get a truly professional installation and get the most out of your equipment. Whether it's a simple, standalone unit or a complex computer network, we'll be happy to offer a competitive quote.

However handy you may be with a screwdriver, there are real benefits to having professionals install your equipment - we are approved service and installation agents for all the major manufacturers, including Raymarine, Furuno, Simrad and Garmin so you can be confident that our engineers have been fully trained. Many manufacturers offer an enhanced warranty on their equipment if it is fitted by an approved installation engineer, which may be critical particularly if you're planning on long distance cruising and want the confidence that your equipment will be fully supported anywhere in the world.

Assisted Installations

If you'd still prefer to fit the equipment yourself, then we're still here to help - you may want to take advantage of our assisted installation services.

WIRING SERVICE

One of the biggest headaches of installing equipment on a boat is actually the wiring - running cables behind bulkheads, under headlinings, making sure they're routed correctly and neatly secured so they're not snagged or caught - you'd be surprised at the percentage of equipment failures that are related to poor wiring. Why not save yourself that headache by getting us to do this for you. We can route all the cables neatly and professionally, terminating them exactly where you need them, then all you need to do is fit the equipment itself.

COMMISSIONING SERVICE

Those final connections or that specialist knowledge gained from previous installations needed to get everything running at 100% may be all that you require. Our commissioning team will pick up where you leave off, carrying out the final connections and the all-important setup of the entire system. Best of all, when we commission and sign off the installation you will be able to take advantage of any enhanced warranty offered by the manufacturer.

Don't forget, if you just want some free installation advice, we're just on the other end of the phone - it's all part of the service when you buy from us.

Support and Training

Fitting the kit is only the beginning - you then have to learn how to use it all. A few hours spend on professional training can really reap rewards in terms of product operation and usability. Our team will be happy to offer friendly and easy to understand product training to help you get the best out of your equipment as part of our installation service.

Call Us Now

It's worth discussing your needs with us before buying any equipment - we may be able to advise an alternative solution which could actually save you money and give you the functionality that you want. We will also be able to let you know of any additional equipment or accessories that you will need - things that most people forget about, such as mounting brackets for radar and satcom antennas, interfacing cables, radio antennas and so forth.

Turn to the back page for our contact details.



Turn to the back page for pricing and ordering info NOW!

Technical Information

Multifunction Display Comparison

Product Name	Furuno MFD8 Navnet 3D	Furuno MFD12 Navnet 3D	Garmin GPSmap4008	Garmin GPSmap4010	Garmin GPSmap4012	Garmin GPSmap5008	Garmin GPSmap5012
							
Dimensions (WxHxD) inch/mm	(13.1x7.5x4.4) / (332x190x111)	(16.5x10x5.1) / (419x254x130)	(11.2x7x4.6) / (284x178x117)	(13.4x8.9x4.2) / (340x226x107)	(14.9x9.5x4.6) / (379x241x117)	(10.1x6.8x4.2) / (257x173x107)	(13x9.5x4.7) / (330x241x120)
Display size inch	8.4	12.1	8.4	10.4	12.1	8.4	12.1
Display Type	VGA	SVGA	VGA	SVGA	XGA	VGA	XGA
Touch Screen	No	No	No	No	No	Yes	Yes
Weight lb/kg	10.4 / 4.72	15 / 6.80	5 / 2.27	7.8 / 3.54	10 / 4.54	6 / 2.72	9.5 / 4.31
Battery	No	No	No	No	No	No	No
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Antenna	External	External	External	External	External	External	External
Antenna Comments			GPS17 included	GPS 17 included	GPS 17 Included	GPS17 included	GPS17 included
NMEA 0183 in/out	3/3	3/3	4/2	4/2	4/2	4/2	4/2
NMEA 2000 in/out	1/0	1/0	1/1	1/1	1/1	1/1	1/1
Proprietary In/Out	Navnet	Navnet	Garmin Marine Network	Garmin Marine Network	Garmin Marine Network	Garmin Marine Network	Garmin Marine Network
Cartography	Mapmedia	Mapmedia	Garmin	Garmin	Garmin	Garmin	Garmin
Cartography Comments	Raster/Vector	Raster/Vector	Bluechart G2 Vision	Bluechart G2 Vision	Bluechart G2 Vision	Bluechart G2 Vision	Bluechart G2 Vision
Voltage Range (V)	12-24v	12-24v	12-24v	12-24v	12-24v	12-24v	12-24v
Current (A)			2.75A	2.92A	2.92A	2.92A	2.92A
Waypoints	12,000	12,000	1500	1500	1500	1500	1500
Routes	200	200	20	20	20	20	20
Trackpoints	12,000	12,000	20/10,000	20/10,000	20/10,000	20/10,000	20/10,000

Garmin GPSmap5015	Lowrance HDS-7	Lowrance HDS-8	Lowrance HDS-10	Raymarine C90W	Raymarine C120W	Raymarine C140W	DigitalYacht AquaNav PC
							
(15.5x11.7x5.7) / (393x297x145)	(8.8x6.4x3.5) / (224x163x88)	(10.6x7.8x3.7) / (270x198x94)	(12.3x8.9x3.6) / (312x225x92)	(12.48x7.75x4.44) / (317x197x113)	(14.96x9.64x4.44) / (380x245x113)	(16.69x10.9x4.44) / (424x277x113)	(11.81x10.62x2.75) / (300x270x70)
15	6.4	8.4	10.4	9	12	14	15
XGA	VGA	SVGA	SVGA	VGA	VGA	VGA	XGA
Yes	No	No	No	No	No	No	Optional
11.9 / 5.40				8.5 / 3.86	10.5 / 4.76	12.3 / 5.58	
No	No	No	No	No	No	No	No
Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
External	Internal	Internal	Internal	Internal	Internal	Internal	External
GPS17 included	High Sensitivity	High Sensitivity	High Sensitivity	High Sensitivity	High Sensitivity	High Sensitivity	GPS105 Included
4/2	2/2	2/2	2/2	3/2	3/2	3/2	2/2
1/1	1/1	1/1	1/1	1/0	1/0	1/0	Optional
Garmin Marine Network	LowranceNET	LowranceNET	LowranceNET	SeaTalk, SeaTalk2	SeaTalk, SeaTalk2	SeaTalk, SeaTalk2	Open TCP/IP
Garmin	Navionics/Insight	Navionics/Insight	Navionics/Insight	Navionics	Navionics	Navionics	Navionics
Bluechart G2 Vision	Preloaded Insight (US) Navionics (ROW)	Preloaded Insight (US) Navionics (ROW)	Preloaded Insight (US) Navionics (ROW)	Silver Preloaded	Silver Preloaded	Silver Embedded	Gold/ Platinum+
12-24v	10-18v	10-18v	10-18v	12-24v	12-24v	12-24v	6-34v
3.33A	0.8A			1.58A	1.83A	2.66A	3A
1500	5000	5000	5000				Unlimited
20	200	200	200				Unlimited
20/10,000	10/20,000	10/20,000	10/20,000				Unlimited



Turn to the back page for pricing and ordering info NOW!

Find out more...

Tacktick Wireless Instruments

**BREAK
FREE!**



EASY TO INSTALL - a typical installation can be done in just a few hours, with no need to drill holes in bulkheads, run cables through headlining or down the mast.

PERFORMANCE ADVANTAGE - with no mast cable, spar weight is reduced and the boat's centre of gravity is lowered.

DATA WHERE YOU NEED IT - with clip in cradles, displays can be positioned anywhere on the boat.

SEALED FOR LIFE - all Tacktick products are totally waterproof (submersible to 10m), which also eliminates condensation. Reliability also increases since wiring faults typically account for 80% of system problems on boats.

TACKTICK T106 REMOTE DISPLAY

Handheld Wireless Remote Display

Not just a remote control, this is an independent Micronet wireless palm sized display which shows all system data and also incorporates a rolling road and performance pages for displaying uploads from tactical software, and it can function as a remote control for Micronet displays. Add as many handsets as needed for key crew members.

KEY FEATURES

- Repeats a wide range of data
- Palm sized, easy to hold
- Totally multifunction
- Graphic multi-line display
- Solar powered with integrated lithium battery
- Can be used with other manufacturers' equipment

SUPPLIED WITH

Remote display, universal wireless NMEA interface



**HOT
PRODUCT**

TACKTICK T108 CRUISE PACK

Wireless Speed, Depth, Wind System

This great value package is ideal for sailboats of all sizes, coming complete with a 'digital analogue' and a dual digital display.

KEY FEATURES

- Speed, Depth, Distance
- Wind Speed and Direction
- Calculated functions
- Compatible with other manufacturers via NMEA
- Solar powered with integrated lithium batteries
- Efficient power consumption - units can run autonomously for up to 300 hours

SUPPLIED WITH

Dual Digital Display, Analogue Display, Speed and Depth transducers, Wind Transmitter, Hull Transmitter



**EDITOR'S
CHOICE**

TACKTICK T035 SPEED SYSTEM

Entry Level Speed System

The T035 Speed system is the ideal solution for all yachts 35ft or under. A large, wireless 38mm (1.5in) display shows speed. There are no cables to pull through headlinings or bulkheads, the only requirement is a 12v connection to power the display.

KEY FEATURES

- Boat Speed and Log
- Large clear backlit digital display
- Completely waterproof to 10 metres
- Simple installation, easy calibration
- Show depth on the same display - simply add a T912 Depth Transducer

SUPPLIED WITH

Speed transducer, hull transmitter and display unit



TACKTICK T034 DEPTH SYSTEM

Entry Level Depth System

The T034 Depth system is the ideal solution for all yachts 35ft or under. A large, wireless 38mm (1.5in) display shows depth. There are no cables to pull through headlinings or bulkheads, the only requirement is a 12v connection to power the display.

KEY FEATURES

- Depth & Sea Temp
- Large clear backlit digital display
- Completely waterproof to 10 metres
- Simple installation, easy calibration
- Show speed on the same display - simply add a T911 Speed Transducer

SUPPLIED WITH

Depth transducer, hull transmitter and display unit



TACKTICK T038 SPEED/DEPTH/WIND

Entry Level Cruise Pack System

Ideal for either replacing existing instruments, first time installations or new-builds. Wireless data transfer means the system is simple to install with no wires down the mast or through the deck and just 12v required for the displays and speed/depth pod.

KEY FEATURES

- Boat Speed & Log
- Depth & Sea Temp
- Wind Speed & Direction
- Cost effective solution
- Large clear backlit digital displays
- Completely waterproof to 10 metres

SUPPLIED WITH

3xDisplays, hull transmitter, triducer, masthead unit



**NEW FOR
2011**

TACKTICK T033 WIND SYSTEM

Entry Level Wind System

The T033 wind system is the ideal solution for cruising yachts 35ft or under. Wind speed and direction information is delivered wirelessly from the wind transmitter, whilst the display itself is powered by your boat's 12-volt battery.

KEY FEATURES

- True and apparent wind speed and direction (true wind requires boat speed)
- Large clear backlit analogue display
- Completely waterproof to 10 metres
- Simple installation, easy calibration

SUPPLIED WITH

Wind transmitter and display unit



TACKTICK T100 SPEED/DEPTH

Bidata System

The Tacktick Speed/Depth system is a compact solution for those on a budget or where space is limited. The single display shows boat speed, depth and distance travelled.

KEY FEATURES

- Speed, Depth and Distance
- Solar powered with integrated lithium battery
- Efficient power consumption - units can run autonomously for up to 300 hours
- Easy to expand system

SUPPLIED WITH

Dual digital display, through hull speed and depth transducers, hull transmitter



**SEEN IT
FOR LESS?
WE WON'T BE
BEATEN ON
PRICE!**

TACKTICK T101 WIND

Wind System

The wireless T101 Wind System does away with all the inconvenience of installing a traditional wind system - with no mast cable the mast doesn't need to be stepped, plus the weight saved improves the yacht's performance. The display shows wind direction (360° and close hauled) and wind speed.

KEY FEATURES

- Large clear 'analogue' display
- Solar powered with integrated lithium battery
- Efficient power consumption - units can run autonomously for up to 300 hours

SUPPLIED WITH

Wind transmitter and display unit



We accept most major credit and debit cards



NAVIONICS

Electronic Cartography

Navionics offers two main chart types, the popular Gold and the multi-award winning Platinum+. Both are based on Navionics' exclusive vectorised fully seamless technology, providing clearly legible charts without clutter, holes or gaps. Gold charts are available in budget-priced Small or huge XL9-size coverage areas, while Platinum+ are available in the great value XL or larger XL3 size areas. All compatible plotters accept standard and expandable cartridge formats, such as Compact Flash or Secure Digital. Visit the Navionics website at www.navionics.com to access the list of compatible plotters with corresponding product line and media.

NEW FOR 2011 - NAVIONICS FRESHEST DATA, FREE UPDATES FOR ONE YEAR

From 2011 Navionics will greatly increase the number of updates published throughout the year. Customers will be able to access continuous chart improvements and corrections from the Navionics database via a simple download process. All Gold and Platinum+ charts purchased from Jan 1 2011 will be entitled to continuous free updates for 1 year (does not apply to embedded Silver or Platinum).

NEW FOR 2011 - FREE PC APPLICATION

Enjoy the same functionality of Navionics' award-winning mobile apps on your PC. The PC App is provided free to purchasers of Gold XL9 and Platinum+ XL and XL3 charts upon website registration of their new chart. (NOTE: does not apply to Gold Small or Gold XL9 charts bundled with chartplotters).

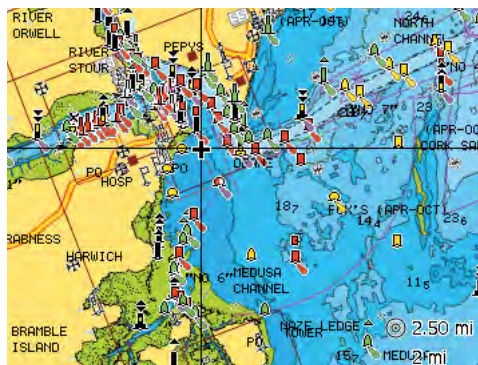
NAVIONICS GOLD

Electronic Cartography

Gold charts bring electronic cartography a step closer to the official paper charts. Bathymetries are easily distinguishable thanks to the different colour shadings with selectable contour colours, light sectors of lighthouses and real forms and colours of buoys.

KEY FEATURES

- Spot soundings and contours
- Best range 1/32nd mile
- Detailed port plans and port services guide
- Animated tide height, current speed/direction data
- Available in Small or XL9 sized areas of coverage
- Compatible with PC Planning kits



Find out more...

Why upgrade embedded charts?

The Raymarine C & E series, Simrad NSE & NSO and the B&G Zeus chartplotters are all supplied with embedded Navionics Silver cartography, so why would you need to think about upgrading these to Gold or Platinum+?

Navionics Silver

This is a very simple embedded chart of a large cruising area (eg Europe). The advantages are that you get huge coverage, you can use your chartplotter "straight out the box" and it's great for route planning as it enables you to plan trips outside your regular cruising area.

However, there are limitations - the detail is only down to 0.5nm, there is no depth information beyond 10m (spot sounding, contours, etc.), no tidal heights, no current speed and direction, no port plans or Points Of Interest, it's not Navionics freshest data and most importantly, it's not updatable because it is preloaded into the chartplotters at the factory.

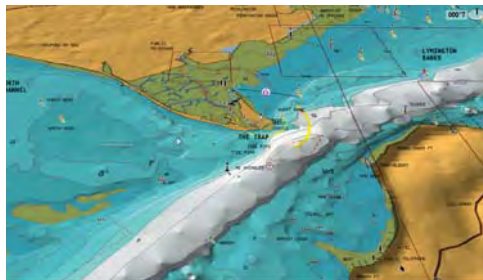


Portland Bill & The Shambles - Navionics Silver

NAVIONICS PLATINUM+

Electronic Cartography

From detailed 2D base charts to top-down satellite photo overlays and 3D view, Platinum+ allows you to navigate in multiple dimensions for the ultimate in situational awareness. TurboView™ Technology offers powerful multi-dimensional charting - the embedded Navionics TurboView Charting Engine dramatically increases the functionality and display capabilities of compatible GeoNav, Simrad, Lowrance, B&G and Raymarine plotters to provide boaters with the ultimate charting experience.



Platinum+ Shaded Contours with TurboView



Improved 3D bathymetric views



Panoramic Port Photographs



TurboView fly-through with photo overlay



Portland Bill & The Shambles - Navionics Gold



Portland Bill & The Shambles - Navionics Platinum+

The above examples clearly show the difference in the level of detail and presentation of the same area between Silver, Gold and Platinum+. Only Platinum+ is compatible with TurboView, Navionics' exclusive software engine which enables you to switch seamlessly between 2D and 3D views.

The latest Raymarine, Simrad and B&G plotters are designed to take full advantage of all the features of Navionics Gold and Platinum+ cartography. In our view it would be a waste to invest in this level of technology and to not use it to the full.

Call us now for unbiased advice and to find out more about the chart coverage of your area.

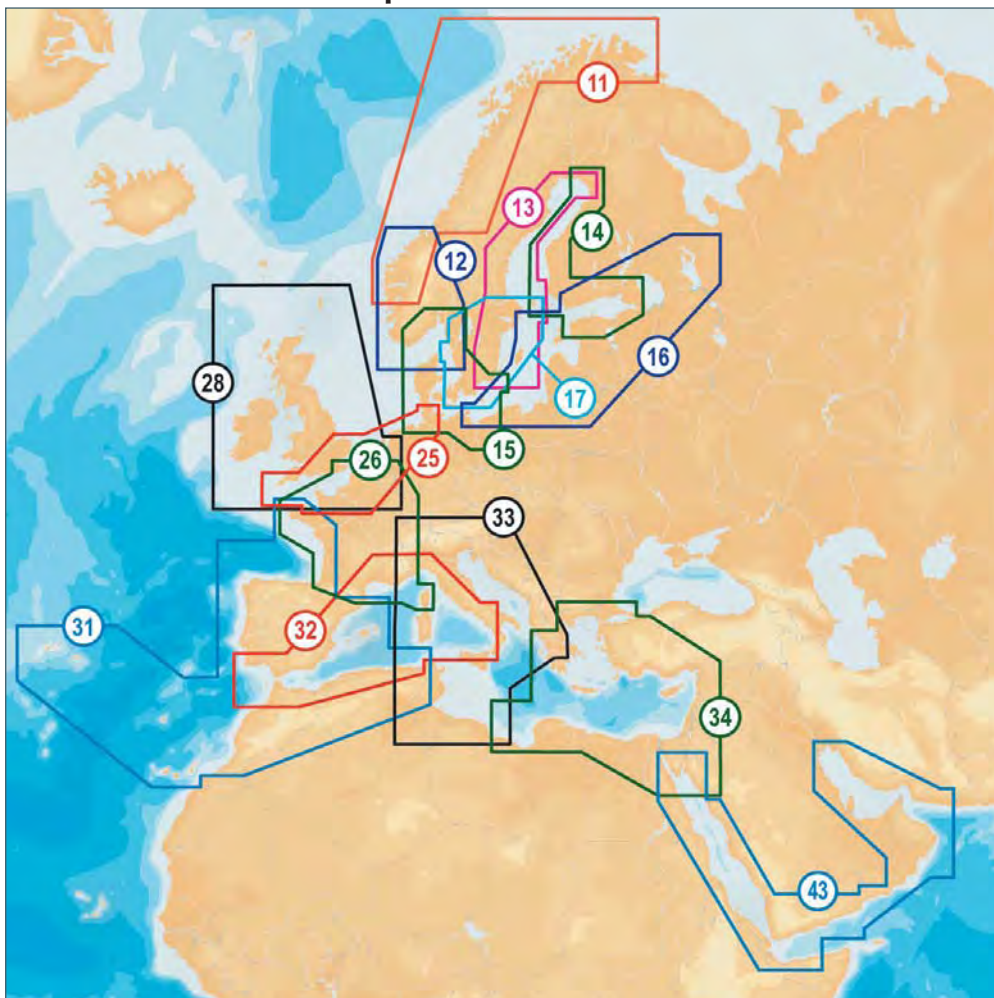
KEY FEATURES

- Award-winning Multi-Dimensional charts
- Sold in two sizes, XL and XL3
- Shaded depth contours for enhanced definition
- Panoramic Port Photographs
- Detailed Pilot Books
- Detailed top-down aerial photographs that overlay over the chart at variable transparency
- Enhanced Points of Interest data
- Seamless, fluid pan and zoom, rotation and pitch functionality, much like a flight simulator!
- Seamless transition between 2D and 3D views
- Real-time overlay of navigation data on 3D profiles
- Depth and elevation shadowing
- High-speed flythrough, detailed aerial photo overlay

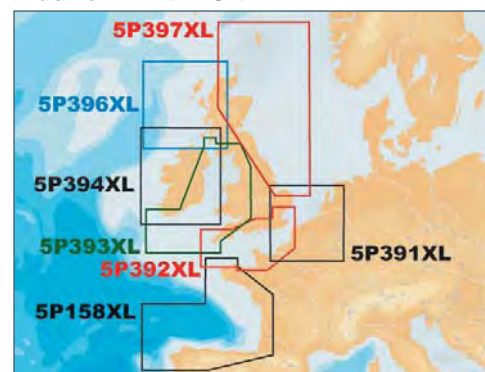
Turn to the back page for pricing and ordering info NOW!

NAVIONICS PLATINUM+

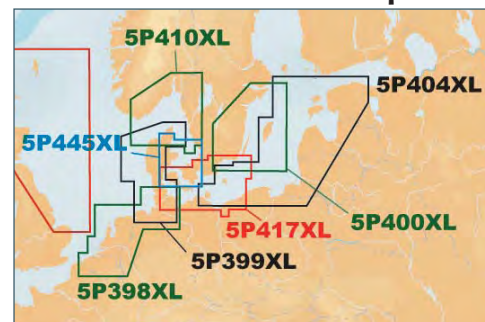
Platinum+ XL3 - Western Europe



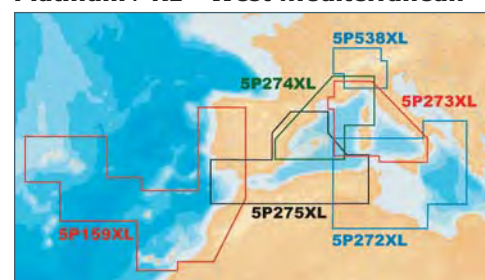
Platinum+ XL - UK



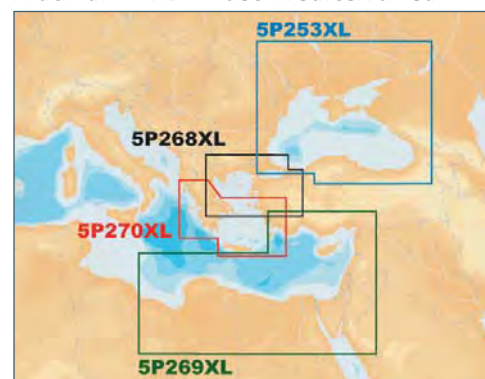
Platinum+ XL - Northern Europe



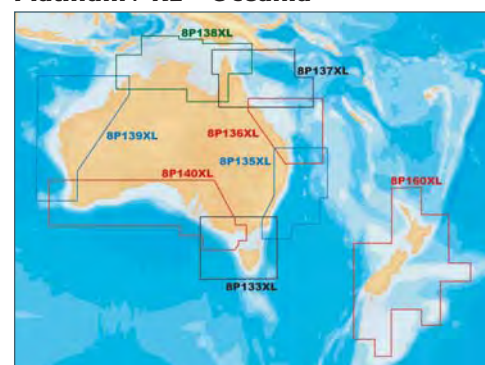
Platinum+ XL - West Mediterranean



Platinum+ XL - East Mediterranean



Platinum+ XL - Oceania



FDI NAVIGATIONPLANNER

PC-Based Chart Viewing System

Designed specifically for Navionics charts, this allows you to plan using your PC at home, on board or in the office and save directly to a compatible cartridge for your chart plotter. Backup all your navigation waypoints and routes on your PC, import data from other sources and transfer them to your plotter.



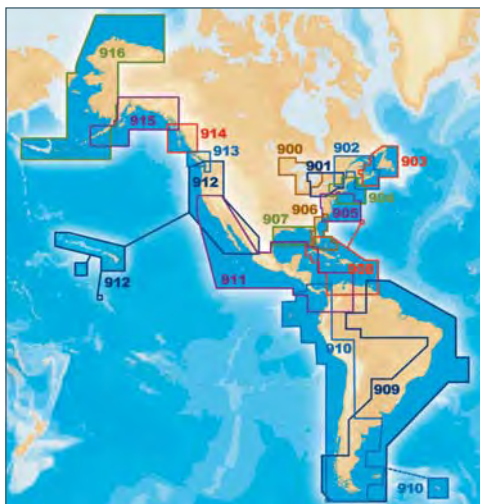
NEW FOR
2011



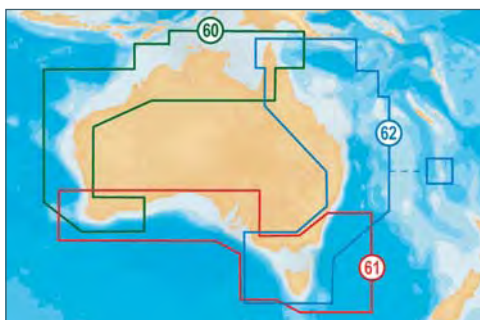
KEY FEATURES

- View the chart on your PC
- Load, create and edit routes and save to chart card
- Keep your own waypoint library, import waypoints from CSV files and other sources
- Transfer data directly from the card to the plotter
- Use the same chart symbols on your plotter and PC
- Create a route with just a few mouse clicks
- International or US colours and symbols
- View and print full details of routes and waypoints
- Locate ports with the Go-to-port function
- Measure distances, bearing, fuel use and more
- Access tide & current, sun & moonrise data - show tidal flow direction and velocity on chart. (Subject to chart data availability)

Platinum+ XL3 - Americas



Platinum+ XL3 - Oceania



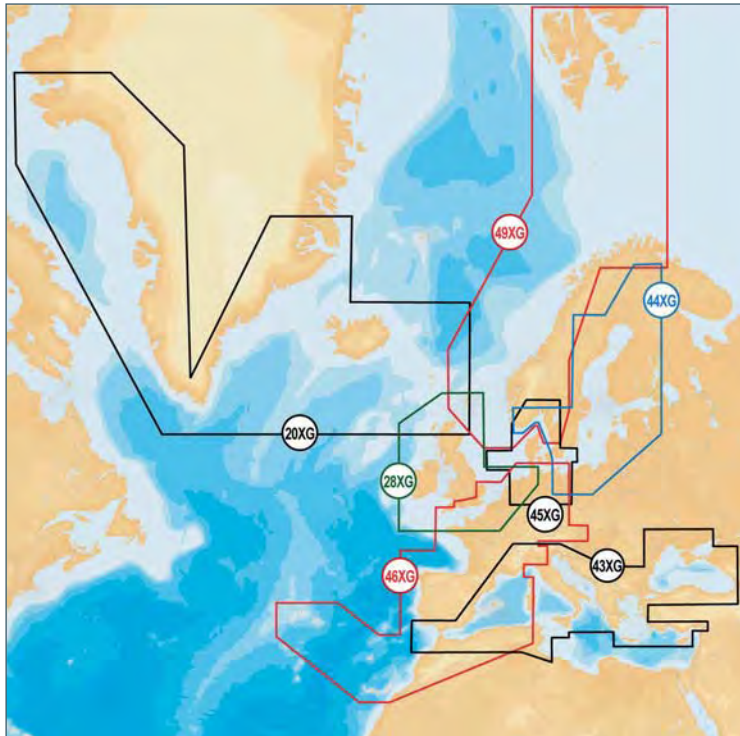
We accept most major credit and debit cards



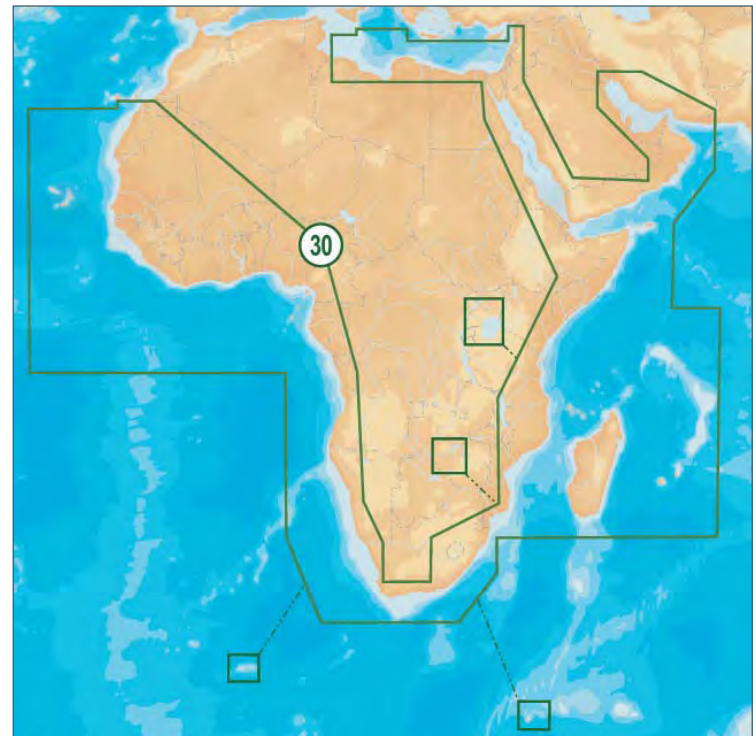
Electronic Cartography

NAVIONICS GOLD

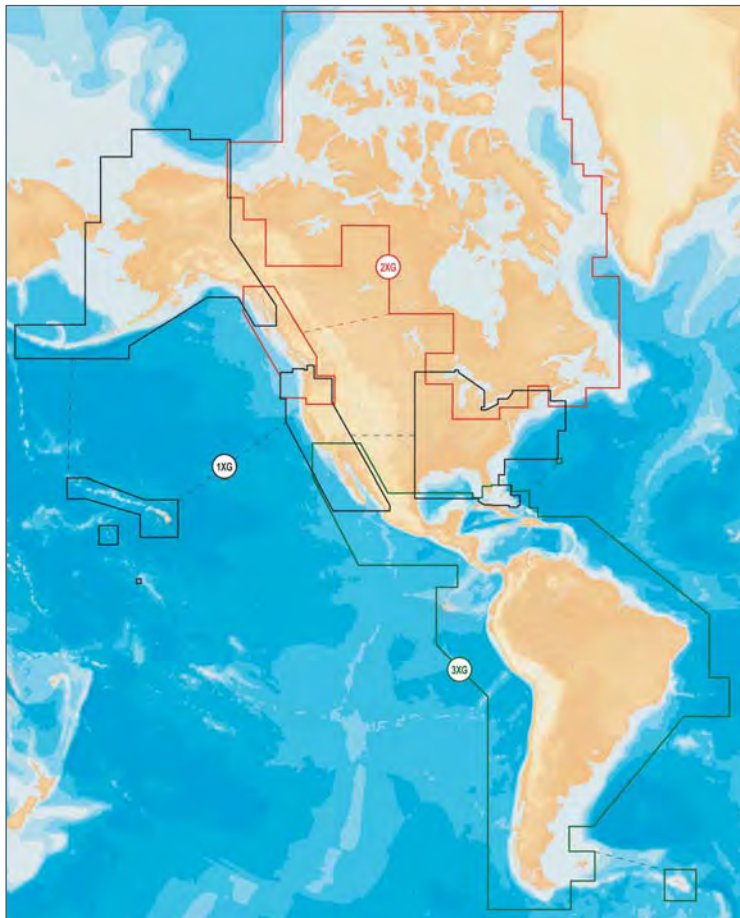
Gold XL9 - Western Europe



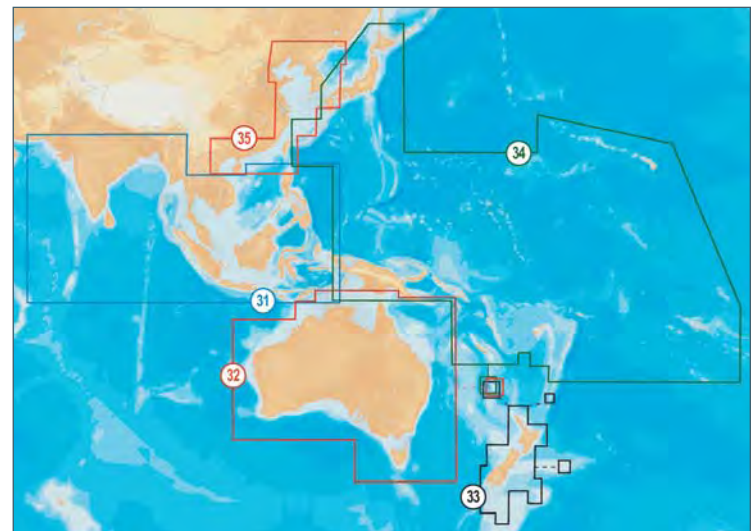
Gold XL9 - Africa



Gold XL9 - Americas



Gold XL9 - Asia & Oceania



Please note that the coverage maps shown on these pages are just a small selection of Navionics' entire worldwide chart catalogue

Contact us for further information if the area you're looking for is not shown here, or visit our website.

Gold Small - UK

Code	Area
557	JERSEY - LE TREPORT
558	ST-VALERY - ZEEBRUGGE
559	TENBY - EXMOUTH
560	FALMOUTH - WAYMOUTH
561	START PT - CHICHESTER
562	KEYHAVEN - RYE HBR.
563	LITTLEHAMPTON - WALTON
564	BURNHAM - SCARBOROUGH
565	GRIMSBY - ANSTRUTHER
566	SCOTLAND EAST
567	SCOTLAND NORTH WEST
568	SCOTLAND WEST
569	ISLE OF JURA - BARMOUTH
570	LIVERPOOL - GOWER
571	IRELAND EAST
572	IRELAND SOUTH
573	IRELAND WEST
574	IRELAND NORTH WEST
575	IRELAND NORTH
576	SHANNON - ERNE

Turn to the back page for pricing and ordering info NOW!

A closer look...

MAX 11

New up-to-date version of Jeppesen charts

When it comes to MAX 11, there's no comparison. Advanced features make cruising, sailing and fishing easier, safer, and more fun. With the most accurate chart detail, versatile features and a wealth of important value-added data, we take your boating enjoyment to the MAX!



Why Update

- Wide coverage areas are now up to 3 times bigger
- Get the most accurate and current information
- Up-to-date charts help contribute to safe navigation
- C-MAP by Jeppesen charts are updated regularly and offer the best in official and reliable charting

For more information on updating your cartridge, visit jeppesen.com/lightmarine.

Check the date of your update on the label of your C-MAP by Jeppesen chart.



PC-Planner

Rewind your adventure... plan your next one

Whatever marine activity you enjoy, PC-Planner makes it easier. Plan next summer's cruise, view your course from the weekend regatta, locate a wreck to dive or fish on and download free weather forecasts.

- Plan
- Archive
- Weather
- View
- Work

Visit jeppesen.com/lightmarine



C-MAP by Jeppesen charts are available in the following technologies, sizes and media:

NT+

Local, Wide



C-Card



FP-Card



DVD

MAX 11

Local, Wide, MegaWide



C-Card



SD-Card



DVD

C-MAP MAX

Electronic Charting System



MAX is C-Map's dynamic and interactive chart technology that has revolutionised the way electronic charts look and behave. MAX brings new life to the electronic chart, combining unparalleled levels of chart accuracy and detail, striking presentation and a huge collection of new value added data.

KEY FEATURES



Embedded photos & coastal land mapping



Fully animated worldwide tide & current database



Aerial photography of ports and marinas



Perspective view - "rolling road" chart display



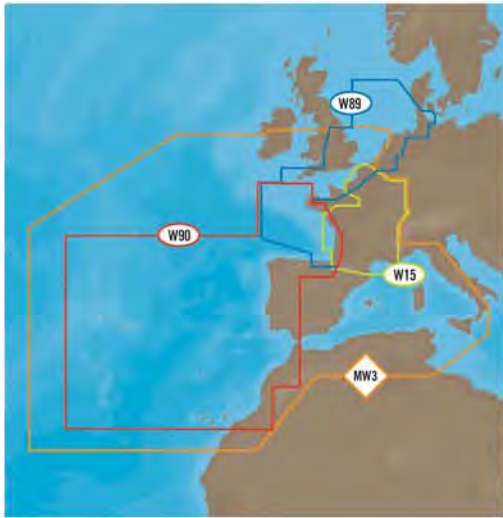
We accept most major credit and debit cards



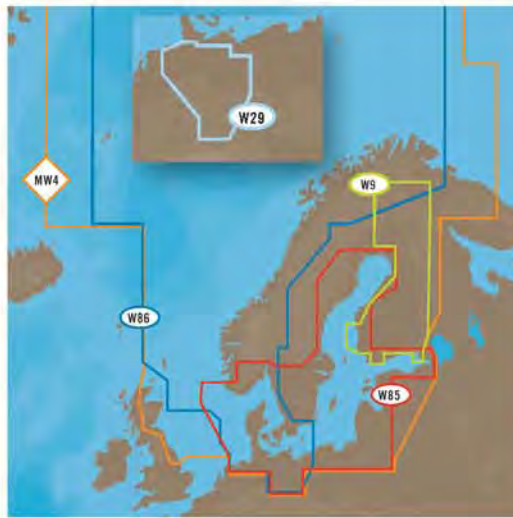
Electronic Cartography

C-MAP MAX WORLDWIDE CHART COVERAGE

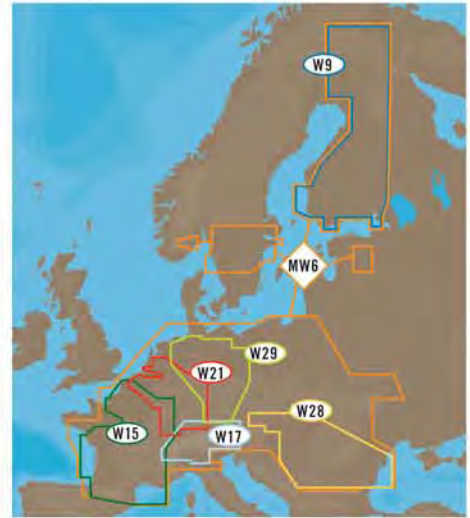
West European Coasts Megawide/Wide



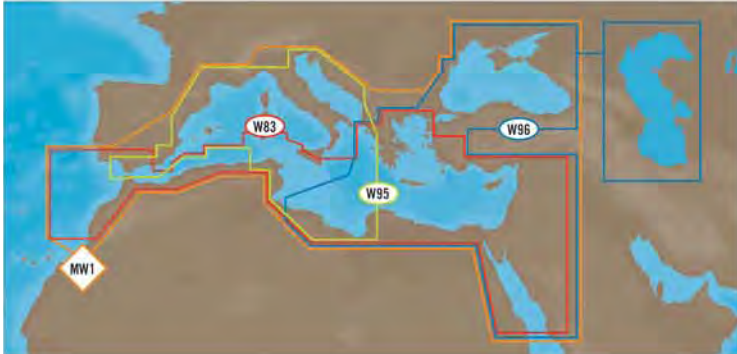
North & Baltic Seas Megawide/Wide



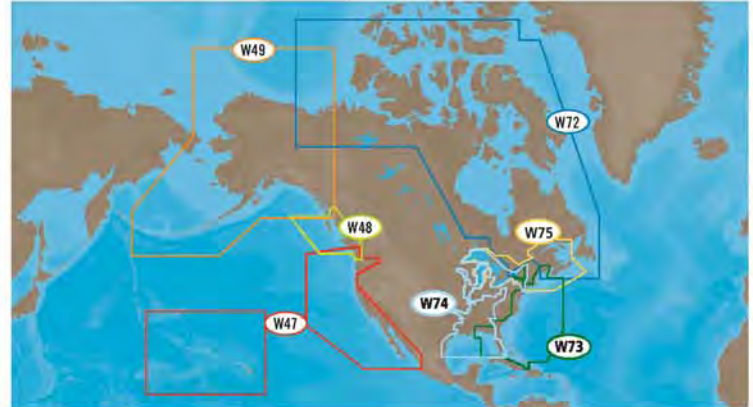
European Inland Waters Megawide/Wide



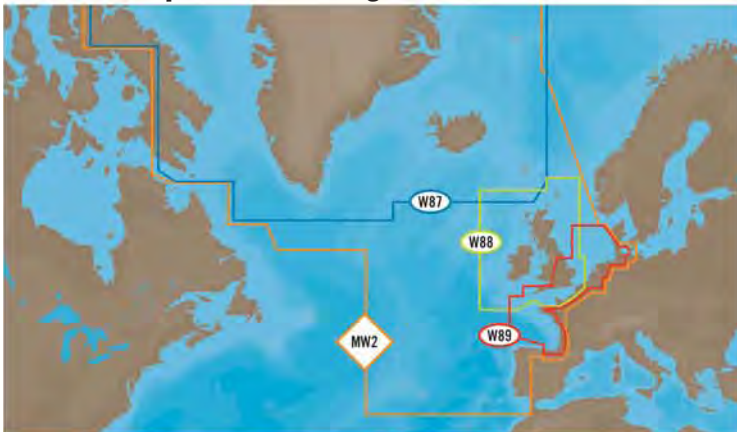
Mediterranean & Black Sea Megawide/Wide



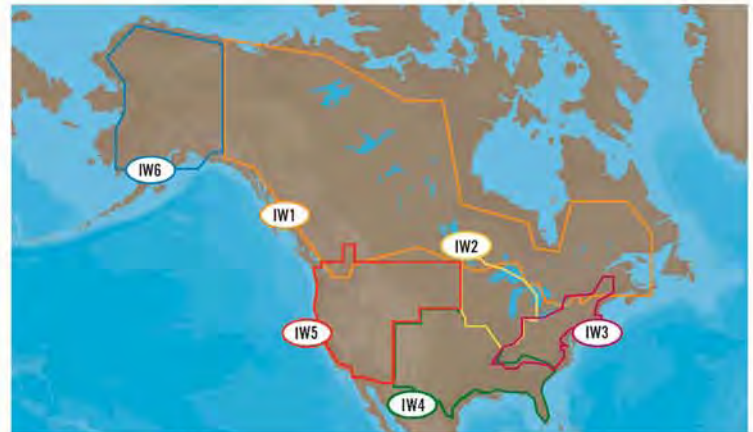
Canada & USA Wide



Atlantic European Coasts Megawide/Wide



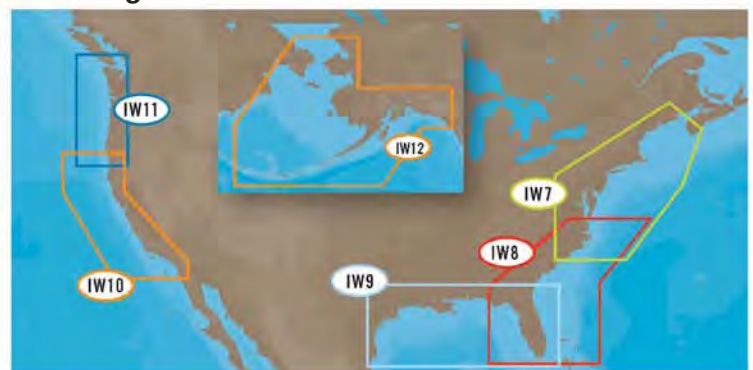
MAX US Lakes Wide



North & Central America Megawide



US Fishing Contour Charts Wide



This is just a small selection of the total C-Map coverage. If you are looking for a region not shown here, please call us for more details or check our website.

Turn to the back page for pricing and ordering info NOW!

What Makes A Good Marine PC?

With an ever increasing range of marine PC navigation, communication and weather systems now available to the leisure sailor, along with the demand for internet access, entertainment and the "floating office" many boaters are seriously considering fitting an onboard PC system, if they haven't already done so. And as PCs get smaller and more portable, they seem to be an ideal and practical solution. But if you're thinking of joining the ranks of the floating PC users can you just go down to your local Dixons or Comet and pick up a cheap laptop or compact desktop system and expect it to operate reliably under the sort of conditions you experience at sea? Specialist companies such as DigitalYacht offer a range of marinised PCs, but why should you pay the additional cost for such a setup when the High Street offers such a wide range of systems, many of which at first glance would appear to be ideal to your needs?

THE PROBLEMS

Let's consider the kind of problems a PC has to deal with on board a small yacht or powerboat and how a professional, marinised PC system deals with them:

- **Damp, salty air** - making the PC waterproof may seem to be the solution, but this will create it's own problems - to make a PC waterproof it will have to be full sealed, which will create thermal problems. PCs get very hot and need good ventilation and airflow to keep the components cool, this is why most computers have internal fans. As a matter of fact, getting soaked is generally not an issue - most vessels have a location which is dry enough for a PC. According to Digital Yacht, over the past 5-6 years they have seen very few cases of acute water ingress on standard PCs which have failed. In general it's long term chronic exposure to the damp atmosphere that ultimately causes failure.



Compact commercial case with rugged front panel



Ventilation holes required for cooling but filters added for models with a fanned processor

- **Pitching, rolling and pounding** - you can't just plonk your laptop or desktop PC and monitor onto the chart table and expect it to stay there, it needs to be mounted securely to a horizontal or vertical bulkhead. Most off-the-shelf PCs don't include hard mounting points like this. Even if it's securely strapped in place, when you're falling off waves or beating to windward, everything on the boat is being exposed to surprisingly high G force loads.



Mounting brackets to screw unit down to horizontal or vertical bulkhead



All cables secured with cable ties

- **Vibration** - Long term stress fatigue. The continuous vibration and pounding will kill a normal desktop PC long before corrosion does. Hard disk drives and graphics cards are the most common points of failure.



Solid state hard drive - no moving parts to break or skip



Industrial shock mounts fitted to conventional hard drives

- **Power Supply** - small boats have a 12v or 24v DC system. The majority of PCs are designed for mains operation - even laptops usually can't be charged directly from the boat's supply. Inverters are inefficient and another system to go wrong.
- **Noisy, fluctuating voltages** - When batteries are low and the engine is started, "brownouts" - voltages less than 10v are not uncommon. When the engine is running the voltage can rise to 14.5v or more and this can damage "12v" PCs. Electrical noise from other equipment or the alternator can cause problems too.



The latest DC to DC power adaptors avoid the use of inverters and mains voltages. Developed for commercial trucks, they are over 95% efficient and have high input ranges 6v to 32v for reliable 12v or 24v operation.



- **Limited battery capacity** - Let's face it, when batteries were first fitted to yachts there wasn't the kind of demand on them that we see now. Chartplotters, radars, VHF radios, instruments, televisions are all common sights on modern yachts and there's only so much you can squeeze out of a battery. Sailboat owners constantly worry about power consumption and normal PCs consume a LOT of power. More Processing Power = More Electrical Power



The Digital Yacht Aqua PC is fanless with an Intel Atom N270 processor and consumes just 1.5A

The top of the range AquaPro has a solid state hard drive, Intel Core i3 processor with integral graphics for 3D charting and still only consumes 3.5A

OTHER THINGS TO CONSIDER

- **Confined space for electronics** - Space is always at a premium on most boats. Unless a manufacturer states their PC can be mounted in an enclosed space, assume that good air circulation is necessary to avoid over-heating. Don't ever cover up ventilation holes in the PC case under the mistaken impression that you're "waterproofing" your PC. You also need to allow room to access connections at the rear of the PC or enough spare cable to remove the PC without pulling cables out. A remote power switch and USB socket is useful if the PC is going to be mounted in a difficult to access location.

There are a lot of really compact PCs available on the market, but actually the smallest PC may not be the best long term investment as you need to consider upgradability and compatibility.

- **Interfacing** - NMEA0183 is the most common form of interface on board modern boats. It's a serial interface and will work with the RS232 (COM) Serial Ports found on older PCs, but these are becoming less common on newer PCs. It's very useful if your Marine PC has some COM ports but if not, NMEA to USB interfaces are available - make sure that compatible drivers exist for the version of Windows you are running. NMEA2000 is the latest interfacing standard and is based on the CAN Bus technology found in cars. To interface with NMEA 2000 systems you will need a PC with an NMEA2000 interface built-in or one of the USB to NMEA 2000 Gateway devices that are now available. More reason not to go for the smallest PC you can afford.
- **Equipment has to work reliably** - If you're going to switch to a PC based navigation system then you're going to want it to be reliable - the last thing you need is for the system to pack up at a critical moment. Dedicated marine electronics manufacturers spend a huge amount of resources making their equipment rugged and reliable because they know how demanding the marine environment is. Having said that, modern PCs are much more reliable than they were five or six years ago. Aside from the hardware issues we've already looked at, three other factors significantly affect reliability, and it's basically the same issues that you usually run up against with your PC at home:

Operating System: We recommend Windows 7 (32 bit)

Drivers: always ensure devices are properly installed and have the latest drivers

Software: Avoid installing / uninstalling lots of different software and if possible avoid having an internet connection on your navigation PC - if you're using your boat PC for navigation, use an old laptop or cheap Netbook for surfing the internet, playing games, etc.

To summarise - **get everything working and then don't change anything!**

OUR CONCLUSION

We firmly believe that PCs have a place on board today's leisure boats, there's some great marine software on the market and an increasing range of hardware specifically designed for integration with onboard computers. They offer greater flexibility and upgradeability than dedicated marine electronic equipment, but if you want to go down this path, our advice is that you invest in a professional marinised PC system from a specialist manufacturer such as Digital Yacht etc.

DIGITALYACHT AQUA STANDARD PC

Compact 12v Marine PC

Aqua PC is designed as a general purpose, great value on board PC. With the latest ultra low power, fanless, Intel Atom N270 processor (2.5W) the complete Aqua PC system typically consumes just 20W but provides all of the performance needed to run navigation software, e-mail, surf the web, etc. All Aqua PCs can be connected directly to the boat's 12v or 24v DC supply with no inverter and all models can be switched on/off either from the front panel switch or from a remote push button switch (not supplied). Can be supplied with optional built-in Hi-Power Wi-Fi adaptor or built-in NMEA 2000 Gateway.

KEY FEATURES

- 12/24v DC, ultra rugged, fanless marine PC
- Compact - measures just 30 x 27 x 7cm!
- Easy mounting and installation
- Fitted with CD/DVD RW
- Supplied with Windows 7 (on UK versions) - Linux version also available
- 2 x NMEA Ports and 3 x USB Ports
- Intel Atom N270 processor for low power consumption and fast computing
- 160GB hard drive fitted in Anti-Vibration mount



DIGITALYACHT AQUAPRO PC

Compact 12v Marine Navigation PC

AquaPro is designed specifically for high speed, demanding 3D charting and bathymetric applications such as MaxSea TimeZero (Explorer and Navigator versions). It uses an Intel i3-530 processor and 4GB RAM for exceptional performance. It's supplied with Windows 7 (64 bit) as standard and can also be fitted with an internal 4 port isolated NMEA interface with built in multiplexing functions, allowing complex NMEA systems to be integrated into the PC. A 64GB solid state hard drive is supplied as standard.



KEY FEATURES

- 64GB solid state hard drive, 4GB RAM
- Latest Intel i3-530 processor for exceptionally fast processing speeds

- Optimised to run the latest, graphics-intensive marine navigation software systems
- 10 x USB Ports

ALL AQUA PCs SUPPLIED WITH

0.75m power/IO cable, bulkhead and desktop mounting brackets, SmarterTrack Lite software, driver CD. Aqua Nav PC also includes a navigation IO cable and GPS smart antenna

DIGITALYACHT T112

12in Marine Touchscreen Monitor

A compact 12v DC high resolution 1024x768 LCD touch screen with VGA, DVI and composite video input. Supplied with flush mount kit and software. Touch screen operation requires a USB connection to the PC.



DIGITALYACHT KEYBOARDS

KB05 - Great compact USB keyboard that doesn't take up too much chart table space. Inbuilt 2 port USB hub, great for connecting dongles or memory sticks where getting access to the PC may be difficult.



KB55 - Wireless keyboard with inbuilt trackball, ideal for use in rougher seas where you can brace yourself against a bulkhead and hold the keyboard in your hands, operating the trackball with your thumb.



DIGITALYACHT USB TO NMEA

USB To NMEA Adaptor

Bi-directional NMEA to USB Adaptor which works on PCs, Mac and Linux computers and converts NMEA 0183 data used by many marine systems into a USB format that can be plugged into most modern computers. It supports traditional 4800 baud data or the higher speed 38400 baud rate used by AIS systems.



KEY FEATURES

- Plug and play connection to most PCs, Macs and Linux computers
- Bidirectional data conversion
- Inbuilt data indicator lights
- Multiple adaptors can be used with the computer
- Supports 4800 or 38400 baud rate

SUPPLIED WITH

1.8m cable, driver CD, SmarterTrack Lite AIS software

DIGITALYACHT AQUAMEDIA PC

Compact 12v Marine MediaCentre PC

AquaMedia is optimised as a powerful Media Centre PC. Featuring the latest low power Intel Atom 330 dual core processor the complete system typically consumes just 35W while giving the performance you need for a full function HD Media Centre PC.

KEY FEATURES

- 250GB hard drive, 4GB of RAM
- BluRay drive
- True HD 1080P movie playback
- Digital TV tuner
- 8 USB ports

DIGITALYACHT AQUANAV PC

Compact 12v Marine Navigation PC

AquaNav is optimised as a powerful marine navigation PC. Standard interfaces include three USB ports and a VGA and DVI port allowing the system to drive up to two compatible LCD monitors. It is supplied ready preconfigured and interfaced so the GPS and AIS work straight out of the box.

KEY FEATURES

- Super fast 64GB solid state hard drive, 2GB of RAM
- Two NMEA ports
- Inbuilt dual channel AIS receiver
- Dedicated GPS Antenna
- CD/DVD RW drive

DIGITALYACHT GPS105

12 Channel WAAS/EGNOS GPS

Rugged, waterproof high sensitivity GPS ideal for use with DSC radios, radar, chart plotters or any other devices that require GPS data. Simple connection and zero configuration make it easy and reliable to install and use. Use with DigitalYacht's USB-NMEA adaptor cable to interface with a PC.



KEY FEATURES

- Suitable for 12v and 24v systems
- Low power consumption < 150mA
- On-board rechargeable battery
- Interference filter for radar and VHF channels
- NMEA 0183 v2.20 output

SUPPLIED WITH

Integral 1in 14TPI threaded base and 10m cable

DIGITALYACHT BOATRANET

Wireless Navigation Server

BoatraNet... the world's first wireless navigation server for boats!

BoatraNet integrates with the boat's navigation system via NMEA0183 or NMEA2000 and creates a dynamic website for the boat that can be accessed even at sea without an internet connection.

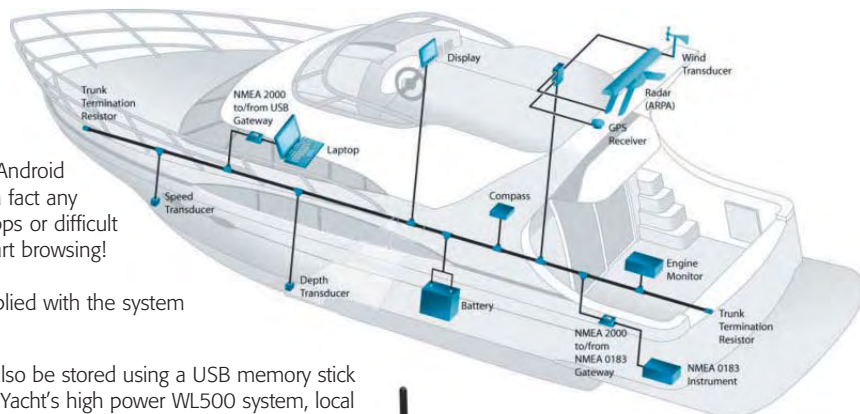
It creates a wireless network that works with iPhones, iPads, iPod Touch, Android Devices, Smart Phones, Laptops, Windows, LINUX and Mac OS X PCs - in fact any wireless enabled device with a HTML5 compliant browser. No special apps or difficult setup are required, simply connect to the Boatranet WiFi hot spot and start browsing!

It also incorporates a Navionics based chart plotter - a card reader is supplied with the system which allows you to use your existing electronic charts with Boatranet.

But it's not limited to just navigation - photos, documents, music etc can also be stored using a USB memory stick which then is available to all connected devices. Compatible with Digital Yacht's high power WL500 system, local users of Boatranet can connect to marina hot spots to get internet access. What's more, Boatranet automatically shares the internet connection allowing all of the wireless devices on the boat to access the internet!

KEY FEATURES

- 10-32v DC, less than 2A consumption
- Intel Atom D410 processor, 1Gb RAM
- LINUX Server OS
- Fully HTML5 compliant
- Apache Web Server
- 802.11n Wireless LAN
- Two NMEA0183 Ports
- Optional NMEA2000 Gateway



NEW FOR
2011

HOT
PRODUCT

Find out more...

Why Fit a WiFi Booster?

Most harbours and ports now offer Wi-Fi as part of their facilities, but if they're using a standard wireless router and antenna, the range is typically less than 100m outdoors and if you're using the internal Wi-Fi adaptor typically found on a laptop, you'll be lucky to find the signal at the end of the dock!

While you can't improve their transmission power, you can do something about your Wi-Fi reception quality by fitting a high power system or booster.

DIGITALYACHT WL50

Wi-Fi Booster

Compact all-in-one system with a 30mW modem built in to a 0.6m high gain antenna which should boost your Wi-Fi range to over 0.5 miles in perfect conditions.

Designed for quick and easy installation using four suction cups, the WL50 is an ideal temporary mount solution for boats, caravans, RVs etc. With simple plug & play connection, it comes with all software and drivers for Windows XP, Vista, Mac OS X 10.3 (and higher) and LINUX.*

KEY FEATURES

- Ideal solution for temporary installation
- Simple Plug and Play USB connection
- 30mW Wi-Fi modem and high gain (8dBm) omni-directional antenna
- 4 x suction cup mount
- USB bus powered
- Windows XP/Vista/7 compatible
- Mac OS X and LINUX* compatible

* The WL50 has not been tested with all LINUX distributions, but all of the latest Debian-based distributions should include these drivers

SUPPLIED WITH

Mounting Suction Cups, Mounting brackets, 5m USB cable, Driver CD



DIGITALYACHT WL400

High Power Wi-Fi System

This compact, all-in-one system connects to your PC via USB using a plug 'n' play driver disk supplied for Windows XP/Vista/7, Mac OS X 10.3 (and higher) and LINUX* operating systems. It supports 802.11b/g protocols as well as WEP and WPA encryption. Even if you already have Wi-Fi access you will still want to take advantage of the superior range and speed that this system can offer you.

Wi-Fi range depends on many factors but we have seen ranges of up to 3-4 miles with this low cost system, so if you plan to access the internet whilst on board, the WL400 could be the solution for you!

KEY FEATURES

- Ideal for semi-permanent installation
- Simple Plug and Play USB connection
- All in one 200mW Wi-Fi modem and high gain (12dBm) omni-directional antenna

- Industry standard 1in x 14 TPI thread mount
- Integrated 5m USB cable - can be extended with optional 5m USB Active Extender
- USB Bus Powered

* The WL400 has not been tested with all LINUX distributions, but all of the latest Debian-based distributions should include these drivers

SUPPLIED WITH

5m USB cable, Driver CD



DIGITALYACHT WL500

High Power Wi-Fi System

The WL500 allows boat owners to connect to Wi-Fi hot spots. With internet connectivity on board you can download the latest weather or chart updates as well as having a mobile office on board. The system has a compact 12v DC below deck 500mW booster/modem and an external 0.9m hi-gain antenna.

The WL500 modem connects to the PC via a regular USB connection with a plug 'n' play driver disk supplied for Windows XP/Vista/7, Mac OS X 10.3 (and higher) and LINUX* operating systems. It supports 802.11b/g protocols as well as WEP and WPA encryption. Even if you already have Wi-Fi access you will still want to take advantage of the superior range and speed that this system will offer. Wi-Fi range depends on many factors, we've seen ranges of up to 4-6 miles with this low cost system.

KEY FEATURES

- Ideal for permanent installations and new builds
- Simple plug and play USB connection
- 500mW Wi-Fi modem and high gain (12dBm) omni-directional antenna
- Industry standard 1in x 14 TPI thread mount
- Supplied with 10m of low loss LMR400 coax cable



- 2m USB cable can be extended with optional 5m USB active extender
- Modem requires connection to 12v supply
- Windows XP/Vista/7 compatible
- Mac OS X and LINUX* compatible

* The WL500 has not been tested with all LINUX distributions, but all of the latest Debian-based distributions should include these drivers

SUPPLIED WITH

WiFi modem, antenna with 10m cable, 2m USB cable, Driver CD and User Manual



We accept most major credit and debit cards



DIGITALYACHT SMARTERTRACK

Navigation Software

Ideal for anyone with a dedicated chartplotter using Navionics Gold, Platinum or Platinum+ chart cartridges or is new to electronic charting and wants simple to use PC navigation software with excellent AIS support.

SmarterTrack turns your Windows XP/Vista/7 PC into a navigation tool that overlays your position and AIS targets onto the chart. AIS features include colour coded targets, user selectable target labelling, fully configurable CPA and TCPA alarms, visual indication of CPA, AIS targets drawn to scale and more. Programming routes, checking tides, depths or nav-aids on the chart and a host of other navigation tasks can be performed simply and effortlessly.



KEY FEATURES

- **NEW FEATURES FOR 2011** - NMEA2000 support, customisable instrument displays and weather overlays (GRIB files)
- Displays all NMEA instrument data
- All route and waypoint data can be transferred to your dedicated chart plotter
- Tidal height and tidal flow data
- Full set of configurable alarms



SUPPLIED WITH

Navionics USB cartridge reader, installation CD-ROM and manual

DIGITALYACHT SMARTERCHART 500 AIS COMBO

5in Colour Chartplotter With AIS

The SmarterChart 500 AIS Combo from Digital Yacht is the world's first 5in chart plotter to feature an inbuilt AIS receiver. With all the features of the SmarterChart 500 Chartplotter, it effortlessly plots your position on the electronic chart and also overlays all AIS targets typically within 20 miles of your boat.

Sharing the same 5in sunlight viewable display as the other SmarterChart 500 plotters, the AIS Combo is fully compatible with C-Map MAX charts, providing unprecedented value and detail. As the AIS receiver is inbuilt you don't have to worry about integrating a separate receiver unit, simply connect to a suitable antenna or splitter and you're ready to go! AIS target range, like VHF range is dependent upon installation factors such as antenna gain, antenna height and size of ground plane. Ranges in excess of 20-30 miles should be possible if all of these factors are ideal.



KEY FEATURES

- World's first 5in chart plotter with built-in AIS
- Full C-Map MAX chart compatibility
- 12v or 24v DC supply
- Worldwide built-in electronic charts showing C-Map detail down to a level of two nautical miles
- High sensitivity, dual channel AIS receiver - BNC connector for antenna
- 50 channel internal GPS (external GPS available as option)
- Requires connection to existing VHF/AIS antenna (optional accessory) or splitter



SUPPLIED WITH

Mounting brackets, 1m power/data cable, sun cover, fuse holder and user manual

DIGITALYACHT HSC100

Compass Sensor

Accurate compass heading data remains a fundamental parameter for marine navigation and the HSC100 uses fluxgate technology to deliver heading data for on board systems. Typical applications include enabling course up and true motion type displays on chart plotters, radar overlay onto electronic charts and stabilisation of radars when used for MARPA/ARPA target tracking. Integrated instrument systems can also benefit from having compass information to calculate real time tidal set and drift when interfaced with a log and GPS.

Most low cost heading sensors only output data at 1Hz (once per second) but the HSC100 outputs at 10Hz which is required for MARPA target tracking and accurate radar overlays.

The HSC100 is waterproof (IPx7) so can be mounted externally on steel hulled vessels. It also features an automatic calibration routine to compensate for the effects of nearby magnetic influences. This involves turning the boat through 1.5 circles at a constant angular velocity whilst in calibration mode. Once completed, typical accuracies are within 0.5°.

KEY FEATURES

- High Speed (10hz) NMEA electronic fluxgate compass sensor
- Ideal for use with radar overlay and MARPA target tracking systems
- Industry standard NMEA 0183 "HDG" output
- Gimballled to 45°
- 12/24v DC operation with minimal power consumption
- Waterproof to IPx7 and suitable for external mounting on steel hulled vessels
- Automatic calibration routine and manual compass offset feature
- Additional AD10 heading output for interface to Furuno systems
- LED Status Indicator

SUPPLIED WITH

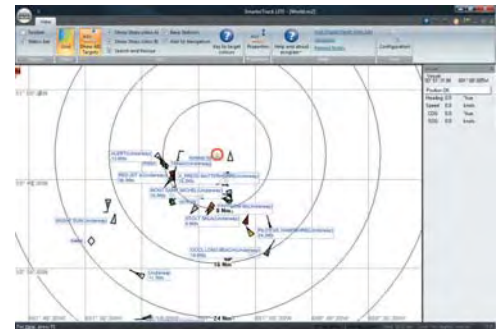
15m Cable and manual



DIGITALYACHT SMARTERTRACK LITE

PC AIS Display Software

A simple but effective graphical AIS display program for any PC running Windows XP/Vista/7. AIS data is meaningless unless it shows where the targets are in the real world relative to your vessel. SmarterTrack LITE does this by plotting all surrounding AIS targets on a world map or, as you zoom in, on a radar type screen with variable range rings. Features include colour coded targets, user selectable target labelling, target course lines and fast AIS information recovery, making it the ideal introduction to AIS software.



KEY FEATURES

- Graphical AIS display software plots all detected AIS targets on world map
- Automatically switches to AIS "Radar" type display as you zoom in
- Colour coded AIS Targets with course lines
- Each AIS target shown with user selectable label
- Can be upgraded to full SmarterTrack package

SUPPLIED WITH

Installation CD-ROM and manual

DIGITALYACHT AIS100/AIS100USB

AIS Receiver

These value priced, entry level AIS receivers are Digital Yacht's most cost effective solution for adding AIS to your boat. Available with NMEA0183 (AIS100) or USB (AIS100USB) outputs, both models feature the same dual channel receiver as the AIS200 range, but without the multiplexer. Nevertheless, there is no compromise on performance and the AIS100 will outperform all other, inferior, single channel receivers. For use with existing AIS compatible chart plotters, such as the latest Garmin, Raymarine, Navico, Standard Horizon and Furuno units. Connected to an existing VHF antenna via a splitter or to a dedicated AIS antenna, you can receive all AIS targets typically within 20 miles of your boat.

**NEW FOR
2011**



KEY FEATURES

- Low cost entry level AIS receiver
- High performance dual-channel AIS receiver for use with existing plotter and radar systems
- **AIS100** - NMEA0183 output
- **AIS100USB** - USB Output
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Easy to install IP54 black box solution

SUPPLIED WITH

Integral mounting brackets, 0.75m power/data cable, AIS Lite software on CD and User Manual

DIGITALYACHT AIS200N2

Tri-Output AIS Receiver

The first AIS receiver with Tri-Output capability, the AIS200N2 is ideal for complex NMEA2000 installations where multiple units require AIS data. Providing traditional NMEA0183, USB (for PC) and NMEA2000 data connections, it also features a multiplexer so that traditional NMEA0183 format data such as depth, position, speed and wind can be converted to NMEA2000 within the unit.

The NMEA 2000 data standard offers faster, more complex networking capabilities and cross platform compatibility with a universal plug 'n' play type cabling system. The unit has a true, dual channel parallel receiver, using digital processing for the best possible target acquisition. Uses standard Windows XP/Vista/7 inbuilt drivers and also compatible with Mac OS X and all LINUX Kernels since V2.4.20.

**NEW FOR
2011**



KEY FEATURES

- Tri-Output; NMEA2000, NMEA0183 and USB PC
- High performance dual channel AIS receiver for use with existing plotter and radar systems
- Rugged IPX5 aluminium housing
- USB Interface for simple plug and play connection to a PC
- High speed NMEA output (38,400 baud)
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Multiplexed NMEA input for single NMEA GPS+AIS data output on all three ports
- Simple "fit and forget" black box solution

SUPPLIED WITH

Mounting brackets, 1m Power/Data cable, 1m USB Cable, 0.5m NMEA2000 cable, AIS Lite software on CD and User Manual

DIGITALYACHT AIS200PRO

AIS Receivers

Great entry-level AIS receiver for use with PC navigation software and chartplotters, such as the latest Garmin, Raymarine, Navico, Standard Horizon and Furuno units. Simple plug and play USB connection to a PC. Uses standard drivers built-in to Windows XP/Vista/7 and is also compatible with Mac OS X and all LINUX Kernels since V2.4.20. The AIS200Pro also features NMEA0183 input and output allowing you to supply AIS data to a dedicated chartplotter for larger installations. Connect the NMEA (4800 baud) output of your GPS to the AIS200PRO and it will automatically multiplex the slower GPS data with the high speed AIS data and transmit everything on the high speed NMEA output (38,400 baud) - perfect for connection to a chart plotter with only one NMEA input.



KEY FEATURES

- High performance dual channel AIS receiver for use with existing plotter and radar systems
- Rugged IPX5 aluminium housing
- USB Interface for simple Plug and Play connection to a PC
- High Speed NMEA output (38,400 baud)
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Multiplexed NMEA input for single NMEA GPS+AIS data output at 38,400 baud
- Simple "fit and forget" black box solution

SUPPLIED WITH

Mounting brackets, 1m Power/Data cable, 1m USB Cable, AIS Lite software on CD and User Manual

DIGITALYACHT iAIS

Wireless Tri-Output AIS Receiver

The world's first AIS receiver that links wirelessly with the latest iPhone, iPad and iPod devices. Consisting of a high performance dual channel AIS receiver and an integrated 802.11b+g wireless access point, the iAIS also multiplexes any other NMEA data available - GPS, depth, speed and wind etc., all of which is available to any compatible application. By using the boat's own GPS, even an iPod Touch or iPad that does not have an internal GPS can now be used for navigation and superior performance will also be seen on an iPhone.

The iAIS also has an NMEA0183 and USB interface so that you can output data to a PC or a dedicated plotter. The free iAIS app is available from the App Store and is a simple AIS display program. For more advanced use, DigitalYacht recommends the

iNavX app (www.inavx.com).

Compatible with Navionics charts, iNavX provides a complete set of navigation functions that turns your Apple device into a full function chartplotter with waypoints, route and tidal data and GRIB weather data overlay.

**HOT
PRODUCT**



**NEW FOR
2011**

KEY FEATURES

- Tri-output - WiFi, NMEA 0183 and USB
- Multiplexed NMEA input for wireless NMEA feed of instrument and GPS data
- Free iAIS App for iPhone, iPod or iPad
- Integrated 802.11b+g wireless access point
- Fully compatible with iNavX navigation application for Apple mobile devices
- Rugged IPX5 aluminium housing
- Simple "fit and forget" black box solution
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter

SUPPLIED WITH

Mounting brackets, 1m Power/Data cable, 1m USB Cable, iAIS app (from Apple App Store), software CD and User Manual



We accept most major credit and debit cards



AIS Systems

DIGITALYACHT AIT1000

Black Box AIS Class B Transponder

An ultra-slim Class B AIS Transponder with dual NMEA and USB connections, the AIT1000 is an ideal solution for all light marine vessels up to 300 tons. Configuration of your vessel's fixed data is made easy with the Windows proAIS software supplied with the AIT1000. The unit can be connected to a PC running suitable navigation software or a chartplotter and it will receive data from all AIS targets within range as well as transmitting your own AIS data, so other AIS equipped vessels know where you are.

Offering simple plug and play USB connection to a PC using standard Windows XP/Vista/7 drivers, the AIT1000 is also compatible with Mac OS X and all LINUX Kernels since V2.4.20. The AIT1000 outputs AIS and GPS data together on both the USB and NMEA ports, making it perfect for use with a chartplotter that only has one NMEA input.



KEY FEATURES

- High-performance Class B AIS Transponder
- Remote silence button option
- Built-in GPS receiver (ideal as a backup GPS)
- Plug and Play USB interface to a PC
- High Speed NMEA output (38,400 baud)
- Comes complete with low profile GPS antenna
- Requires VHF antenna or dedicated AIS antenna (optional accessory)

SUPPLIED WITH

Mounting brackets, 0.75m Power/Data cable, 0.75m USB cable, GPS Antenna with 7.5m cable, ProAIS software on CD

DIGITALYACHT ANT200

AIS Smart Antenna Receiver

Perfect "all in one" AIS Smart Antenna solution for small boats, particularly RIBs, sports boats and small yachts, where dry space to mount black box AIS units is limited. Simply connect 12v or 24v power and the ANT200 will start transmitting data on all AIS targets within range of your boat – typically 10-15nm. Ideal for use with existing AIS compatible chart plotters, such as the latest Garmin, Raymarine, Navico, Standard Horizon and Furuno units.

Connect the NMEA0183 (4800 baud) output of your GPS to the ANT200 and it will automatically multiplex (merge) the slower GPS data with the high speed AIS data and transmit everything on one high speed NMEA output (38,400 baud) - perfect for connection to a chart plotter with only one NMEA input.

KEY FEATURES

- World's first AIS smart antenna
- Simple to install "all in one" solution
- High performance dual channel AIS receiver for use with existing chartplotter and radar systems
- Multiplexed NMEA input for single NMEA GPS
- High speed (38,400 baud) NMEA output of both GPS and AIS data to chartplotter, radar etc
- Integral 1in x 14 TPI thread for fixing to standard VHF mounts

SUPPLIED WITH

15m Power/Data cable, AIS Lite software, User Manual



DIGITALYACHT AISnet

Internet Base Station

AISnet is an AIS base station receiver for use at home or in the office. Using the same high performance dual channel AIS receiver as the rest of the Digital Yacht range, AISnet features an ethernet socket so that you can connect it to your broadband router and send AIS data to an online AIS tracking service.

There are now a large number of internet based web sites, which offer a view of AIS equipped vessels on a background chart allowing users to check the position and identity of ships and yachts. If your home/office is close to the coast and you would like to contribute your data to one of these sites, simply register with the company and they will give you an IP address and port number.

Using the setup program that Digital Yacht supply, it takes seconds to program the IP address and port into AISnet, which will immediately start sending your local AIS data seamlessly across the internet to be displayed on the site. It is also possible to view the data that AISnet is collecting locally on your PC using the free SmarterTrack Lite software included with AISnet. Simply plug the USB connector into your PC and the AIS data will appear on your PC and still be transmitted over the internet.



KEY FEATURES

- AIS base station for home or office use
- Integrated ethernet network controller for supplying AIS data to AIS websites
- High performance dual channel AIS receiver
- Simple configuration via free setup program
- USB Interface for simple plug and play connection to a PC
- Requires VHF antenna, dedicated AIS antenna (optional accessory) or splitter
- Universal mains power supply included
- Simple "fit and forget" black box solution

SUPPLIED WITH

UK/Euro/US mains adaptor, 1m USB Cable, AIS Lite + Setup software on CD and User Manual

DIGITALYACHT SPL250

AIS Antenna Splitter

Removes the need for a separate VHF antenna for an AIS transponder and allows a single antenna to be shared with a VHF radio. This is the only VHF antenna splitter suitable for use with two transmitting devices. Compatible with all Class B AIS transponders and AIS receivers.

KEY FEATURES

- Saves installation time and cost
- Guarantees priority to VHF voice and DSC radio operation even if the splitter power supply fails
- Additional output for FM radio antenna connection

SUPPLIED WITH

RF leads for connection with AIS transponder, VHF radio and a power lead



DIGITALYACHT AA10

AIS VHF Whip Antenna

A 47cm whip antenna which is ideal if you want a dedicated AIS antenna instead of using your current VHF antenna with a splitter. It is supplied with 10m cable and fitted with a neat fast fit coupler, which allows the cable to be routed without having to cut off and reconnect the plug.

It fits standard 1in deck and rail mounts meaning it is easy to fit on the boat in the most convenient location.

KEY FEATURES

- Integral 1in 14TPI industry standard VHF mount
- Miniature FME connector (with BNC adaptor) for easier routing of the cable through the boat
- Can be used as an emergency backup VHF antenna



Turn to the back page for pricing and ordering info NOW!

Digital Deep Sea

Commercial AIS Systems

DIGITAL DEEP SEA

Introduction To Digital Deep Sea

Digital Deep Sea is Digital Yacht's sister division that designs and manufactures products to meet the needs of the fishing, workboat, naval, deep sea, superyacht and commercial sectors. Digital Deep Sea systems are designed for demanding professional conditions and minimum in service costs, offering great performance and terrific value for the professional mariner.

DIGITAL DEEP SEA CLA1000

Class A AIS Transponder

A Class A AIS transponder is a mandatory fit on all commercial vessels over 300 tons and is also required on many smaller passenger carrying vessels. The CLA1000 meets all the global approvals and can consequently be fitted on any IMO vessel. It provides an automatic transmission of the vessel's own position, speed and heading to other AIS equipped vessels within VHF range.

It features a large LCD display which lists all AIS targets within range and can also provide a graphical target plot. The CLA1000 provides alarms for Closest Point of Approach (CPA) and Time to Closest Point of Approach (TCPA) for any potential targets on a collision course. Measuring just 195mm x 105mm, the CLA1000 is currently one of the world's smallest Class A AIS systems available. It also incorporates a universal pilot plug which allows quick and easy connection of a PC running electronic chart plotting software, allowing GPS and AIS data to be overlaid onto the chart. Digital Deep Sea have developed their own range of PC programs and accessory cables which allow quick and easy programming of static data into the transponder without the use of the dedicated display.



KEY FEATURES

- Fully approved and MED Wheel Marked Class A AIS transponder
- Automatic transmission of vessel's own position, identity, speed and heading to other AIS equipped vessels within VHF range
- Ultra compact design
- Easy soft key and rotary encoder operation
- Full Class A functionality with dedicated controller and 240x128 pixel backlit LCD display
- Positively identify other AIS targets with name, call sign and MMSI data
- See an overlay of targets on a graphical plot
- Automatically calculate closest point of approach (CPA) and time to closest point of approach (TCPA)
- Pilot plug for PC connections
- Remote break out box for interfacing with external alarms and ECS and ECDIS systems
- Inbuilt GPS with GPS antenna supplied

SUPPLIED WITH

PC tracking software, GPS antenna. VHF antenna required (available as an optional accessory)

DIGITAL DEEP SEA ARX100

Class B AIS Receiver

Suitable for non-SOLAS mandate vessels, the ARX100 is a Class B Black Box Receiver with USB and NMEA output that offers exceptional sensitivity and target acquisition capability. Can be integrated with compatible chartplotter, radar and PC systems and AIS data overlaid onto electronic charts. Connect the NMEA0183 (4800 baud) output of your GPS to the ARX100 and it will automatically multiplex (merge) the slower GPS data with the high speed AIS data and transmit everything on one high speed NMEA output (38,400 baud) - ideal for connection to systems with limited available NMEA inputs.

KEY FEATURES

- NMEA0183 (38400 baud) output
- USB PC connection
- 4800 baud NMEA GPS input
- Multiplexes GPS and AIS input
- Requires suitable VHF antenna



DIGITAL DEEP SEA CLB1000

Class B AIS Transponder

A commercial grade Class B AIS transponder supplied with a 1.1m ultra slim combination VHF/GPS antenna complete with deck mounting base and splitter. Allows just a single coax feed from the antenna to the supplied splitter unit which then connects to the GPS and VHF inputs on the CLB1000.

KEY FEATURES

- USB PC connection
- NMEA heading data input
- Multiplexed output of AIS, GPS and heading data
- 4800 baud NMEA GPS input
- NMEA0183 output (38400 baud)
- 12v operation only

SUPPLIED WITH

Combination VHF and GPS antenna with deck mounting base, antenna splitter



Find out more...

What's The Difference Between Class A and Class B AIS?

AIS is an internationally recognised automated tracking system for use on ships and by VTS operators. Data such as name, call sign, MMSI, position, course and speed is automatically exchanged with other users and the information can be displayed on a dedicated screen or overlaid onto an electronic charting system.

The International Maritime Organization's SOLAS Convention requires international voyaging ships with gross tonnage (GT) of 300 or more tons and all passenger ships regardless of size to be fitted with a Class A AIS system. In 2007 the Class B standard was introduced which enabled a new generation of low cost AIS transceivers to be fitted to vessels which are not mandated to carry Class A AIS. The systems are inter-operable.

Class A Requirements

Class A transponders operate using Self Organised Time Division Multiple-Access (SOTDMA). They must have an integrated display, transmit at 12W, be able to interface with multiple ship systems and offer a sophisticated selection of features and functions. Default transmit rate is every few seconds, dependent upon the vessel speed.

Class B Requirements

Class B transponders operate using Carrier Sense Time Division Multiple Access (CSTDMA). Class B units transmit at 2W and are not required to have an integrated display. Class B units can be connected to separate displays where the AIS data is listed or overlaid on electronic charts. The default transmit rate is normally every 30 seconds. The Class B standard requires an integrated GPS and certain LED indicators.

Benefits Of Class A Over Class B

Larger pleasure boats and smaller commercial boats that are not mandated to carry Class A transponders can still benefit from choosing a Class A unit over Class B. With more powerful transmissions, higher transmission rates, guaranteed transmission slots, additional data (destination, ETA, number of people on board) and a dedicated display and alarm system, the benefits of Class A can now be gained without paying an exorbitant price premium.



Safety Equipment

INTRODUCING OCEAN SIGNAL®

Communication and Safety Products

Ocean Signal, the new name in communication and safety at sea, has brought together one of the most highly experienced electronic engineering teams in the marine communications industry who have a vision to provide the very best communication and safety products for today's mariners.

All Ocean Signal products are designed to meet or exceed the technical requirements of the International Maritime Organisation (SOLAS), International Electrotechnical Commission standards, European Directives and Decisions, United States Coastguard standards as well as many other applicable national and international rules.

Offering exceptional value, the Ocean Signal range of products gives commercial, fishing and recreational users the confidence that their equipment will work to, and beyond, their expectations when it is needed most. Ocean Signal customers are their highest priority. Using the latest technologies available and paying meticulous attention to detail throughout the manufacturing process, Ocean Signal believes its products to be the best in class and to provide the highest standards of communication and safety at sea.



OCEAN SIGNAL SAFESEA V100

GMDSS Handheld VHF Radio

Ultra-rugged and easy to use handheld VHF radio that meets all IMO requirements for carriage on SOLAS ships. The novel battery protection tab means the primary battery can be permanently attached to the radio without fear of losing its charge. In an emergency simply break off the red protective tab and the radio will be immediately ready to turn on.

An optional rechargeable lithium polymer battery is available for everyday use. The quick release rapid charger provides the ideal solution for keeping the batteries fully charged.



Battery protection tab



Optional accessory socket



NEW FOR
2011

KEY FEATURES

- High efficiency transmitter for maximum battery life
- Lithium primary battery for emergency use
- Novel battery protection tab protects from inadvertent use
- Battery classified as non-hazardous for shipment
- Battery provides in excess of 16hrs typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched)
- Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use
- High contrast, backlit LCD and keypad
- Rugged accessory socket option - waterproof to IP68 for use with headsets, helmets, fist mikes, etc.

OCEAN SIGNAL SAFESEA S100

SART

Dedicated radar transponder which complies with IMO SOLAS regulations. When switched on, the SART remains in a standby mode until automatically activated by an X-Band Radar sweep from any vessel in the vicinity. The SafeSea S100 transmits a series of pulses which are displayed on the ships Radar as a line of dots, providing a bearing to the survival craft. Simple, intuitive operating controls under snap-off cover prevent accidental activation.



Intuitive controls



NEW FOR
2011

KEY FEATURES

- Superior battery life, even at -20°C
- User replaceable, non hazardous battery
- Five year replacement interval
- Compact size for easy liferaft packing
- Supplied with telescopic pole and storage bracket
- 1 SART required per IMO SOLAS vessel (300 tonnes and above on international voyages)
- 1 SART for every 4 liferafts on RO-RO passenger vessels
- Nationally mandated vessels, including fishing vessels, passenger craft, commercial workboats, etc
- Most Super and Megayachts are required to carry a SART, especially if covered by the MCA code of practice, which is recognised by many countries.
- Voluntary fit vessels will also benefit by carrying a SART

OCEAN SIGNAL SAFESEA E100/E100G

406MHz/121.5MHz EPIRB & GPS EPIRB

SafeSea EPIRBs operate in the 406MHz satellite band monitored by Cospas-Sarsat, the international satellite operator, ensuring a signal can be located wherever it is activated around the globe. SafeSea EPIRBs are also fitted with a 121.5MHz homing beacon and a high brightness LED strobe light for fast on-scene location.

The SafeSea E100G includes a dedicated inbuilt 50 channel GPS providing fast and accurate signal acquisition (typically within 30 seconds).

At over 96hrs, battery operating life is the highest in the industry, so an Ocean Signal EPIRB keeps rescue services updated with your location for longer.

KEY FEATURES

- Choice of GPS and non-GPS models
- E100G incorporates a state of the art 50 channel GPS receiver for fast and accurate position acquisition
- Manual bracket, manual release housing and float free housing options
- In excess of 96 hours operation even at low temperatures
- User replaceable batteries with five year replacement interval
- Non hazardous battery
- Intuitive operating controls protected from accidental activation
- Meets or exceeds all International standards
- Class 2 (-20°C - +55°C) for general use



High brightness LED strobe light



User replaceable, non hazardous battery



NEW FOR
2011

Tech info

SafeSea EPIRB Mounting Options

Two optional housings for the SafeSea EPIRB are available. Both are manufactured in a durable and highly UV stable plastic and provide excellent protection of the unit until it is required.

- MRH100 manual release housing
- ARH100 automatic release housing, containing a hydrostatic release that automatically deploys the EPIRB if the vessel is sinking. IMO regulations require an automatic release housing to be provided for mandatory fitted EPIRB's.



The EPIRB is easily removed from either housing.

Turn to the back page for pricing and ordering info NOW!

McMURDO SMARTFIND E5

406MHz EPIRB

The Smartfind E5 is an ultra-compact 406MHz EPIRB. Once removed from its Carrysafe mounting bracket, the unit can be activated either manually or automatically by immersion in water. A hydrostatic release casing is also available.

Smartfind EPIRBs are programmed with a unique serial number which must be registered with the national authorities. Where permitted by these authorities, beacons can be re-programmed with the vessel's MMSI or Radio Call Sign.

KEY FEATURES

- Stylish and compact
- GMDSS compliant
- 121.5MHz homing transmitter
- Non hazardous battery for safe and easy transportation
- High brightness LED flashing locator lights
- Comprehensive diagnostic and self-test facilities
- 6 year battery life



McMURDO SMARTFIND G5

406MHz GPS EPIRB

Ultra-compact 406MHz EPIRB with an inbuilt 12 channel GPS giving location accuracy of less than 30m. Supplied with a Carrysafe mounting bracket, the G5 can be activated manually or automatically by immersion in water. A hydrostatic release casing is also available.

Smartfind EPIRBs are programmed with a unique serial number which must be registered with the national authorities. Where permitted by these authorities, beacons can be re-programmed with the vessel's MMSI or Radio Call Sign.

KEY FEATURES

- State of the art multi-channel GPS
- GMDSS compliant
- 121.5MHz homing transmitter
- Non hazardous battery for safe and easy transportation
- High brightness LED flashing locator lights
- Comprehensive diagnostic and self-test facilities
- 6 year battery life



McMURDO FAST FIND 210

406MHz GPS PLB

Extremely compact and powerful PLB with a built in 50 channel GPS for additional pinpoint accuracy, further speeding up time of location. Once activated, Fast Find will continue to transmit for at least 24 hrs at a powerful 5W output, the 406 MHz transmission ensures that a call for help gets through whatever the conditions. Fast Find also includes a unique SOS LED flash light facility which is manually activated to further assist in speeding up recovery during night time rescues.

KEY FEATURES

- Extremely compact and lightweight
- 406 MHz international messaging and 121.5 MHz homing signal
- 50 channel integral GPS
- 5 year replaceable battery
- SOS Morse LED flash light
- Simple three-stage activation
- Minimum 24hrs continuous operation



McMURDO FASTFIND MAX G

406MHz GPS PLB

Handheld PLB with integral GPS featuring the same advanced technology found in the award winning Precision EPIRB. Designed using miniature components to fit into an ergonomically styled compact casing, it employs a simple 3 stage manual operation and features user replaceable battery packs. It is ideal for alerting the rescue services of an emergency during maritime, light aircraft and outdoor activities (where licensing allows).

KEY FEATURES

- Compact and lightweight
- 406MHz transmitter, 121.5MHz homing frequency
- Integral GPS receiver
- Battery life 5 years, transmission life 48 hrs



McMURDO FAST FIND 200

406Mhz PLB

All the features of the Fast Find 210, but without the internal GPS. Alert signal to rescue services within 90 mins, typical positional accuracy to within 3nm

**WE CAN PROGRAM
INTERNATIONAL VERSIONS
OF ALL THESE EPIRBs -
VISIT OUR WEBSITE,
PART NO. ZMCMPROG**

McMURDO FASTFIND MAX

406Mhz PLB

All the features of the Fastfind Max G, but without the internal GPS. Alert signal to rescue services within 90 mins, typical positional accuracy to within 3nm.

BOTH MODELS SUPPLIED WITH

Battery pack, case and lanyard

McMURDO S4 RESCUE

SART

A 9GHz X-Band Radar transceiver for assisting air/sea ship or survival craft rescue operations in accordance with IMO GMDSS requirements.

KEY FEATURES

- Ship or survival craft use
- 96hr operation (standby mode)
- 5 year long life replaceable battery pack
- Audio/visual alarm
- Inbuilt test facility
- Internal/external mounting options

SUPPLIED WITH

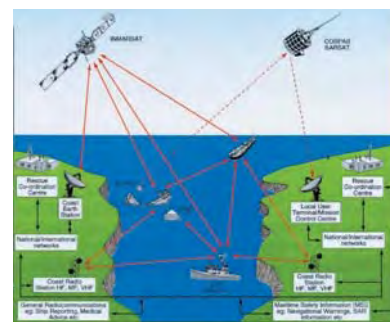
Mounting bracket, lithium battery



Find out more...

What is an EPIRB?

An Emergency Position Indicating Radio Beacon (EPIRB) is used to alert the Search And Rescue services in the event of an emergency. It transmits a coded message on the 406MHz distress frequency, which is detected by the COSPAS-SARSAT satellites. Emergency alerts are relayed to the closest Local User Terminal, which then forwards the information to the Mission Control Centre where the message is decoded. The distress details and vessel details (taken from the registration details) are then passed to the appropriate Rescue Coordination Centre who co-ordinate the relevant Search And Rescue authorities.



What's the difference between an EPIRB and a PLB?

Once the Search And Rescue service are in the area, they need to pinpoint your position directly. McMurdo's Smartfind E5 and G5 EPIRBs contain a 121.5MHz location transmitter for this purpose.

That's fine if you're with the EPIRB, but if you're in the water or have become separated from the vessel, you'll still want the rescue services to find you quickly and easily. A Personal Locator Beacon (PLB) transmits on the same 121.5MHz frequency, but is designed to be carried on your person - many quality foul weather jackets have a pocket on the sleeve for this purpose.

And what's a SART?

Generally deployed in the liferaft on a long pole, a Search And Rescue Transponder (SART) performs a similar function to a PLB, the difference being that a SART sends out a 9GHz signal which is detected by a ship's radar, appearing as a dotted line pointing to your position.

Safety Equipment, Entertainment

McMURDO SMARTFIND S5

AIS SART

The Smartfind S5 AIS SART is a manual deployment survivor location device intended for use on life rafts or survival craft, it meets IMO SOLAS requirements and is an alternative to a Radar SART. Compact, easy to operate and deploy, the Smartfind S5 is supplied in a quick release carry off bag for quick evacuation. When activated it triggers an alarm on all AIS enabled vessels within range, transmitting your vessel's MMSI number along with your current position, which will be displayed as a marker on AIS-integrated chartplotters. Once activated the Smartfind S5 AIS SART transmits continually for a minimum of 96hrs. An inbuilt GPS provides high speed position information to assist in quick recovery of survivors.

Whether wall mounted in the ships bridge or packed inside a survival craft the highly visible and buoyant carry case affords maximum protection.

KEY FEATURES

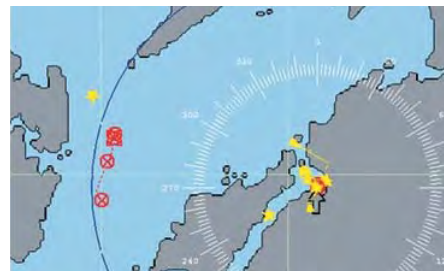
- Internationally approved
- Ship or Survival craft options
- Buoyant/floats, waterproof to 10m
- Rugged, compact and lightweight
- Non-hazardous battery for safe and easy transportation
- Minimum 96hr operational battery life
- 6 year battery life
- Visual indication of operation
- Built-in test facility
- Integral lanyard
- Internal/external mounting options



Find out more...

What is an AIS SART?

From Jan 1st 2010 the AIS-SART is added to IMO GMDSS carriage requirements as an alternative to existing radar based SARTs. When triggered, the distress alert appears on AIS displays of all vessels within range - if the AIS receiver is linked to a chartplotter, the position of the vessel in distress is placed as a marker with the range and course to steer, making rendering assistance much easier and more accurate.



As an AIS receiver typically costs much less than a radar system, the implication is that in the event of an emergency there will be more vessels that could potentially receive the distress information, including small leisure craft which may not have a radar system installed.

MB QUART WR1-USB

Marine AM/FM/Media Receiver

Combined AM/FM radio and digital media player. Features a large multicolour LCD display and the fixed front panel and no CD mechanism enhances the durability of this product, making it ideal for the demands of marine onboard use.



KEY FEATURES

- AM/FM tuner with 12 AM/18 FM presets
- Multi media - CD/CDRW/MP3/WMA compatible
- 4x 40 watt output
- RCA audio output
- 3.5mm AUX input
- USB and SD card input
- PA input with optional PA microphone
- iPod ready with full text display to control iPod from your deck using the optional cable

MB QUART IPOD DOCK

Marine CD Head Unit

Control your iPod from your MB Quart system - works with iPod Classic, Nano, Touch and iPhone, connects to any cable with 30-pin iPod dock connector. Dash or surface mounts for horizontal or vertical installation.



KEY FEATURES

- Interchangeable adaptors and inserts create perfect, single iPod dock
- Black bezel (without MB Quart Logo) and Chrome bezel (with MB Quart Logo) versions available

MB QUART WM1

Marine CD/DVD Head Unit

Multi-region DVD, DVD-R/RW, CD, CD-R/RW head unit with easy-to-read text display. Includes waterproof credit card remote. Video out also allows you to view iPod and satellite radio displays on your TV.



KEY FEATURES

- AM/FM tuner with 12 AM/18 FM presets
- SIRIUS Satellite Radio and iPod control
- USB input plays MP3 and WMA formats
- 50 watts x 4
- 5 preset EQ settings
- 3 RCA pre-outs
- Subwoofer/CD changer control
- IPX5 construction, anti-shock CD buffer, J11171 marine ignition protection, salt/UV resistant
- Also available as a CD only version (CD, CD-R/RW)



MB QUART WR1

Marine CD Head Unit

AM/FM/CD player with CD changer control function. iPod input with text display - control your iPod when within range of the optional remote control. This practical unit is moisture resistant and designed to withstand UV exposure and extreme heat conditions.



KEY FEATURES

- AM/FM tuner with 12 AM/18 FM presets
- SIRIUS Satellite Radio and iPod capabilities
- 40 watts x 4.5
- Preset EQ settings
- 2 RCA pre-outs
- Antishock CD buffer, J1171 marine ignition protection
- Subwoofer/CD changer control

MB QUART WRC-S1 & S2

Secondary Control Units

Remotely control your system and iPod! Compatible with all current MB Quart nautic head units with large, easy to read backlit display. Includes 6m cable.



KEY FEATURES

- Splashproof to IPX7 standard
- Designed to withstand salt and UV exposure

MB QUART SPEAKERS

Marine Midrange Loudspeakers

A range of high quality marine loudspeakers designed to withstand salt and UV exposure with corrosion resistant connectors and sealed solder joints. Titanium tweeters, 4 ohm impedance, 3-year warranty

NKF116 KEY FEATURES

- 2 way coaxial speaker
- 6.5in, 0.75in titanium tweeter
- 50W RMS, 100W peak
- 65Hz to 25,000KHz frequency response



NKF692 KEY FEATURES

- 6 x 9in with 1in tweeter
- 60W RMS, 130W peak
- 50Hz to 25,000kHz frequency response
- 3900Hz tweeter crossover



MB QUART NWF254

10in Marine Subwoofer

- 100W RMS, 200W peak
- 30Hz to 300Hz response
- 4 ohm impedance
- Sensitivity: 86 dB
- Polypropylene cone
- Nautic crossover with protective sealing lacquer
- Gold-plated terminals and sealed solder joints



Turn to the back page for pricing and ordering info NOW!

Marine Electronics Mounts

Scanstrut offers a comprehensive range of installation solutions to maximise the performance of your marine electronics. All major antenna brands and models are catered for, with options for mounting radar, satcom, GPS, VHF and TV aerials and nav lights. For further product information visit www.scanstrut.com.

SCANSTRUT MAST MOUNTS

Mast Platforms

Scanstrut Mast Mounts are a popular choice for mounting radar or satcom antenna onto your yacht's mast, raising the antenna clear of any obstructions or interference.

RADAR

SATCOM

EDITOR'S CHOICE



KEY FEATURES

- For 2kW and 4kW radomes or 30cm and 40cm satcom antennas
- **Universal Mounting:** Attach to any mast with four swivel feet
- **Strong Fixing:** 12 point fixing using high quality monel rivets
- Safety wire kit independently attaches scanner to mast in case an accident damages the installation
- Easy & quick to install with all fastenings supplied
- **NEW** mast mount for FLIR Navigator camera

SCANSTRUT SELF-LEVELLING RADAR MOUNT

Mast, Backstay or Pole Antenna Mount

TESTED BY YACHTING MONTHLY AND PROVEN TO GIVE PICTURE PERFECT RADAR PERFORMANCE.

Ensures radar stays level with the horizon at all times for optimum antenna performance. Hydraulic damping eliminates minor oscillations. Single GPS / VHF mounting accessory available.

RADAR

MAST MOUNTED

- Reduced weight aloft, weighs only 3.4 kg
- Easy upgrade from fixed to self-levelling - same mounting footprint as SC20 and M92722 Mast Mount



BACKSTAY MOUNTED

- Options to mount fore or aft of backstay
- Suitable for single and split backstays
- 2.6m aluminium mounting pole
- Cable channel for a neat install
- High strength universal base eliminates loading on backstay
- Deck, transom or chainplate mount

HOT PRODUCT



POLE MOUNTED

- 360° adjustable base enables installation on sloping transoms and level decks
- Easily removed for racing or winter storage, leaving just low profile base on deck
- 2.5m mounting pole
- Two cable channels for a neat install
- Option to install both satcom and radar on one pole mount



SCANSTRUT SC100

Pole Mount

Available in Aluminium, Stainless Steel and Carbon. Totally universal, installs 2kW & 4kW radomes or 30 & 40cm satcom antennas onto the deck or transom. Complete kit with everything needed for quick and easy installation.

KEY FEATURES

- Two heights - 1.9m recommended for deck mounting and 2.5m recommended for transom mounting
- 360° adjustable base fits angled decks & sloping transoms
- Supplied with two support modules for maximum fore/aft support
- Easily removed for racing or winter storage leaving just low profile base on deck

ALSO AVAILABLE

SC2 Pole Mount for larger radomes, open array antennas and satcoms, choice of 1m deck mounted and 3m or 4m through deck mounted versions

ACCESSORIES

Lifting Crane, 55W Halogen Deck Flood Light, Light and GPS/VHF Antenna Mounts



RADAR

SATCOM

SCANSTRUT SCANPOD

Instrument Mounting Pods

NEW DESIGN FOR 2011. For mounting chartplotters, radar displays, instruments and autopilot controls, manufactured from acrylic capped ABS plastic in high gloss silver or white.

DISPLAYS

HELM PODS

- New no drill fixing kit - unique clamping system provides universal fit to all pedestal rails 25mm - 33.7mm dia.
- Mounting saddle ensures a secure and rigid fit to pedestal
- Fits rail widths from 178mm (7in)

NEW FOR 2011



FLEX MOUNT SYSTEM ACCESSORY

- Tilt display forward / back and side to side for best viewing angle
- Clamp onto existing rail or steering binnacle - install Helm Pod as normal

MAST PODS

- Universal mounting system fits a wide range of mast sizes (76 - 223mm)
- **Carbon Mast Pod** - lightweight unit designed to fit 3 or 4 maxi instruments



DECK PODS

- Quick release lever to alter the angle of the screen quickly
- Adjustable base allows a range of movement and multiple mounting angles



We accept most major credit and debit cards



Marine Electronics Mounts

SCANSTRUT POWERTOWER

Antenna Mount

Mount 2kW, 4kW radomes or small satcom antennas on the cabin roof, flybridge or radar arch, giving a clear view of the horizon for maximum antenna performance. Pre-fitted IP65 cable gland and watertight base seal. Easy to install with pre-drilled mounting holes.



COMPOSITE POWERTOWER

- Choice of heights - 150mm or 350mm
- 200mm² footprint
- 30° aft leaning profile
- Aesthetic single piece moulding to suit any boat

RADAR

SATCOM

STAINLESS POWERTOWER

- Small footprint - only 150mm² mounting footprint makes it ideal for use on narrow arches or RIB A-frames
- 30° aft leaning profile
- 316 stainless steel construction

ALUMINIUM POWERTOWER

- Choice of heights - 130mm or 250mm
- 30° aft leaning (open array) or 25° forward lean (radomes) profiles
- 180mm² footprint
- 6082 aluminium, polyester powder coated

SCANSTRUT DUAL POWERTOWER

Antenna Mount

For radomes or open-array antenna and 30cm, 40cm or 60cm satcom antennas

KEY FEATURES

- Installs satcom antenna above the radar - eliminates antenna interference, ensures maximum performance
- Compact option available for 30cm satcom - lightweight mount and low profile, ideal installation for smaller boats



RADAR

SATCOM

SCANSTRUT SATCOM POWERTOWER

Antenna Mount

For 30cm, 40cm and 60cm satcom antennas

KEY FEATURES

- Raises antenna by 300mm for maximum performance
- Two models available - 30° aft leaning Stainless and vertical profile Aluminium



SATCOM

POWERTOWER ACCESSORIES

Gantry Mount, Light GPS & VHF Antenna Mounts and 4° Base Wedge.

SCANSTRUT SATCOM ANTENNA MOUNT

Satcom Dome Mounts

For 30cm, 40cm and 60cm satcom/tv antennas.

KEY FEATURES

- Reduce antenna footprint by up to 60%, providing greater choice of antenna position
- Adapter mount fixings hidden internally
- Watertight seal and gland systems

ACCESSORIES

Adjustable Base Wedge (provides level mounting platform for antenna)



SATCOM

SCANSTRUT TAPERED RADAR MAST

Antenna Mount

Single combination mount for radar, lights, GPS and VHF antennas, cameras and searchlights, with each item perfectly positioned for maximum performance.

KEY FEATURES

- Removable wings for safe low cost shipping
- Hollow wings and stem allow hidden cabling
- Option to fit search light or camera



RADAR

GPS/VHF

LIGHTS

CAMERA

NEW FOR 2011

SCANSTRUT T-BAR / T-POLE

Antenna Mounts

Cost effective mounts for up to 4 GPS / VHF antennas. Easy to install and ideal for both sail and powerboats.

KEY FEATURES

- T-Pole - 1.5m adjustable height and fits to flat or sloping surfaces
- T-Bar - Mount to upright stanchions, sloping transoms, cabin roofs



GPS/VHF

NEW FOR 2011

T-Pole

SCANSTRUT DECK SEAL

Waterproof Cable Routing

100% WATERPROOF - IPX6 & IPX7 tested and approved. Provides waterproof cable routing with options for 16mm to 40mm connectors. Supplied with both pre-drilled and blank inner seals



KEY FEATURES

- Aesthetic dome-shaped profile provides a stronger, impact-resistant design
- Split-seal option does not require connector removal during install
- Tapered bung forms watertight seal
- Long life stainless fastenings with captive nuts
- Outer dome provides additional water shield
- Available in 30% Glass-filled Nylon or 316 stainless steel

SCANSTRUT MULTI DECK SEAL

Waterproof Cable Routing

100% WATERPROOF - IPX6 & IPX7 tested and approved. Fits multiple cables up to 15mm in diameter.

KEY FEATURES

- Supplied with 1 blank seal
- Marine grade aluminium with hard anodised finish to resist impact marks

NEW FOR 2011



KVH TRACPHONE FB150

Broadband Internet Access

Now, even small vessel owners can afford to have access to weather data, sea conditions, chart updates, as well as communication with family, friends, and the office when at sea! Low cost airtime packages and affordable hardware/airtime bundles.



KEY FEATURES

- Designed for the harsh marine environment
- Always-available 150 Kbps data connection with outstanding quality voice and text messaging
- Rugged, compact antenna is reliable, simple to install, and easy to integrate with your computer or phone network
- Global coverage via Inmarsat's I-4 satellite network

KVH TRACVISION M2

"At Anchor" Satellite TV System

A great choice for those who want to watch Satellite TV while at anchor or at the dock, offering the highest signal strength available for "at-anchor" systems. The high-efficiency antenna features Ring Fire™ technology, which offers reception and signal gain previously only available in 18in diameter systems! Enjoy KVH's award-winning quality and reliability at an affordable price thanks to this fully automatic system.



KEY FEATURES

- Ideal for use on boats as small as 25 feet
- Fully automatic satellite acquisition and satellite
- Ultra-quiet motors, no cable wrap, single-cable install, and exclusive, user-friendly onscreen system set-up and control
- Height 45cm, diameter 40cm

SUPPLIED WITH

Deluxe integrated 12V mobile receiver, backlit RF/IR remote control, 15m Antenna cable. Requires a digibox or satellite decoder (eg Sky box)



KVH TRACPHONE V7

Broadband Internet Access

The perfect solution if you're looking for data-only communications at broadband speeds. Consistent, high quality data connections, crystal clear multiple VoIP telephone lines and reasonable always-on, fixed price or per-Mb subscription plans.



KEY FEATURES

- Seamless regional roaming
- Ideal for heavy data use
- 85% smaller, 75% lighter than standard VSAT antennas, with dynamic, gyro-stabilised tracking
- Integrated WiFi and Ethernet hub
- Up to 512Kbps for ship-to-shore transmissions
- Up to 2Mbps for shore-to-ship downloads
- Military-grade modem for outstanding performance

KVH TRACVISION M3DX

Compact Satellite TV System

If you thought your boat was too small for satellite TV then think again! The world's smallest, fully stabilised mobile satellite television antenna system is ideal for boats as small as 25ft! The ultra-compact 40cm antenna weighs only 8.6kg and gives crystal-clear reception and coverage comparable to the larger sat TV antennas. Supports multiple receiver/TV installations.



KEY FEATURES

- Great offshore coverage (100-200 miles)
- Fast, powerful, ultra-quiet motors
- Fully automatic satellite acquisition
- Single LNB - simple single cable installation
- Voltage 9-16V DC, power consumption 50W
- Height 45cm, diameter 40cm

SUPPLIED WITH

Deluxe integrated 12V mobile receiver, backlit RF/IR remote control, 15m Antenna cable. Requires a digibox or satellite decoder (eg Sky box)

KVH TRACPHONE FB250/FB500

Voice and Broadband Internet Access

The perfect solution for boat owners who want the same Internet speeds they enjoy at home, with "always on" broadband access to email, the internet and Virtual Private Networks (VPNs) as well as simultaneous, reliable telephone service at an affordable rate.



KEY FEATURES

- Fully automatic operation and dynamic stabilisation, even in the roughest seas
- No monthly fees, affordable pay-as-you-go service
- Convenient shipwide integration with PABX systems
- FB250 up to 284Kbps standard, 128Kbps streaming
- FB500 up to 432Kbps standard, 256Kbps streaming

KVH TRACVISION M5, M7 & M9

HDTV Satellite TV Systems

Enjoy HD programming from any leading provider with automatic satellite switching directly from the remote control! Unsurpassed High-Performance DVB® tracking.



KEY FEATURES

- **Tracvision M5** - 45cm system ideal for 40-60ft boats, weight 13.6Kg, power consumption 50W
- **Tracvision M7** - 60cm system ideal for 60-80ft boats, weight 25Kg, power consumption 55W
- **Tracvision M9** - 82cm system with integral Gyro/GPS and Remote Service Modem ideal for 80ft+ boats, weight 38.5Kg, power consumption 120W
- RingFire technology gives 30% greater reception and range than any other comparably sized system
- Superior offshore performance
- M5 & M7 - optional GyroTrac gyrocompass upgrade
- Supports multiple TVs and receivers

SUPPLIED WITH

Tri-Sat controller, remote service modem (M7/M9) Requires a digibox or satellite decoder (eg Sky box)

NAUTICOMP INFINITY II

15in & 19in LCD Displays

The cost effective Infinity II features highly efficient CCFL or LED backlight technology, combining the best cutting edge technology with ease of use and a slim case design.

KEY FEATURES

- Sunlight viewable
- Waterproof to IP67
- Bonded glass - optically enhanced for clarity
- Deep dimming - 0 to 100%
- Superior image - scalable resolution up to SXGA
- Extended temperature range
- DVI, VGA and composite (optional) inputs
- Picture in Picture - designed to display all inputs (requires composite input)



NAUTICOMP INFINITY PRO

15in & 19in LCD Displays

With the smallest chassis frame and user friendly controls, all functions are easily accessed via the compact external keypad allowing the user to quickly and easily switch between inputs, and even switch between auto or manual input selection. Up to 3 inputs per screen.

KEY FEATURES

- Sunlight viewable
- Waterproof to IP67
- Bonded glass - optically enhanced for clarity
- Deep dimming - 0 to 100%
- Extended temperature range
- Superior image - scalable resolution up to SXGA
- DVI, VGA and composite (optional) inputs
- Picture in Picture - designed to display all inputs (requires composite input)



We accept most major credit and debit cards



Introduction To Satellite TV

Find out more...

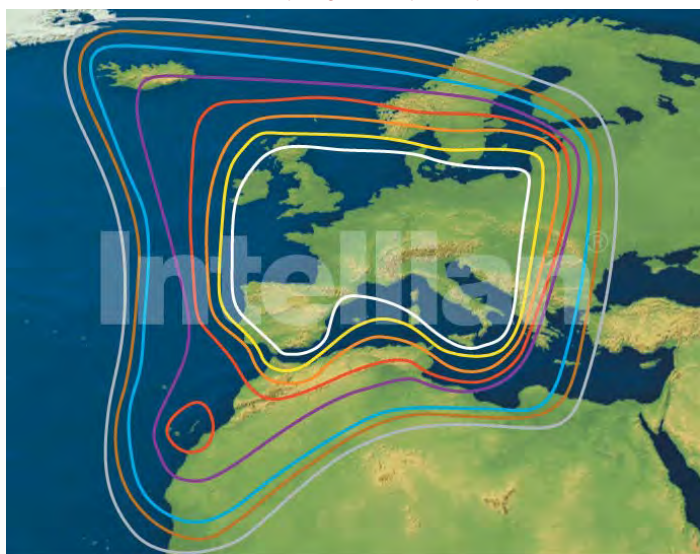
Choosing the right antenna

In recent years brands like Intellian have taken marine satellite TV - once only something you saw on superyachts - and brought it to the small boat owner. But with a range of antenna sizes from 11 to 33.5in, the biggest question is - which is the right one for my boat?

Where are you headed?

Where you're planning on sailing to has a lot to do with which Intellian antenna you need. For example, the entry-level **i1** is ideal if you're just doing some cruising in UK coastal waters, if you're going further afield the **i2** or **i3** antennas are perfect. But if you're planning on doing some serious bluewater sailing or cruising northern latitudes then you may need to step up to the **i4** or **i6**. Intellian has a full range of antenna systems to suit your needs.

The map below shows the typical footprint of the Astra 2A satellite, covering most of the Europe. The coloured bands indicate the typical reception ranges of the Intellian dome models. Compare this to where you're headed, then talk with us to make sure you get exactly what you need.



NOTE - The map is for information purposes only. The actual coverage can be variable dependant on weather conditions. Intellian make no warranties as to the coverage area here and the information can be changed without notice.

Key	Antenna Size	Product
	125cm (50")	Intellian t130
	105cm (41")	Intellian t110
	85cm (33.5")	Intellian i9P
	60cm (23.6")	Intellian i6/16P/16PE
	45cm (17.7")	Intellian i4/14P
	37cm (14.6")	Intellian i3
	33cm (13.0")	Intellian i2
	28cm (11.0")	Intellian i1

What about...

What else will I need?

It's important to understand that a marine sat TV system only provides you with a means of tracking and receiving satellite signals.

In order to receive actual programming you will need to connect this to a set-top unit (STU), sometimes referred to as a *digibox* from a TV service provider, either subscription based or a free to view service.

The best known subscription based service in the UK and Ireland is Sky Digital, which currently gives access to almost 700 TV and radio channels. It is certainly possible to receive Sky services via an Intellian system, however this introduces an extra level of complexity regarding setting up the service, as there will now be a monthly subscription to pay and Sky have certain requirements of their subscribers - for example, they normally require that their digibox is connected to a phone line, which could cause some problems on a boat. If you are certain that you want to receive Sky broadcasts, we recommend you call and talk to our Sat TV experts who will be able to recommend the best arrangement to suit your needs.



If this is sounding too involved for your needs, a simpler system to consider is a free to view service such as Freesat.

What is Freesat?

Freesat is a free-to-air digital satellite television service developed by the BBC and ITV. Best described as the satellite alternative to the terrestrial Freeview service, it currently offers over 140 TV and radio channels without subscription to users, including HDTV services. There is a one-time cost when you purchase the set top unit, after that the programming is free.



Freesat uses the Astra and Eurobird satellites, so you will be able to use Freesat services within the footprint of these satellites.

Can I get all Freeview channels On Freesat?

Because of contractual issues, some Freeview channels are not available on Freesat. Channel 1, TMF, 4Music, UKTV History, Dave, Five US, Fiver, Sky3 and Sky Sports News are all available on Freeview but encrypted on digital satellite. Sky News is not encrypted but is not available on the Freesat EPG. Channel availability also varies depending on which Freesat set-top box you are using.



Some of the 140+ FreeSat channels

Whether you are planning on using Intellian with Sky, Freesat or another provider it should also be noted that the satellites have more than one beam which have different footprints (eg Astra 2D has a North and South beam) and the channels available vary depending which beam you are receiving.



INTELLIAN

Satellite TV & Satellite Communication Systems

The advanced technology of Intellian's satellite antennas has long delivered the sharpest, most reliable satellite television reception at sea. In fact, Intellian's proven satellite television antenna systems can be found today on some of the finest yachts and vessels in more than 40 countries around the world.

Exclusive Intellian satellite TV antenna system features include patent-pending Wide Range Search (WRS) algorithm for faster signal acquisition, Advanced Dynamic Beam Tilting (DBT) for optimum signal stability in heavy seas, an innovative built-in GPS on Intellian i3, i4, i6 and i9 series which automatically uploads data and Auto Skew Angle Control System (i4P version only). The complete system includes Antenna, Radome and Antenna Control Unit (ACU) for simple installation and easy control.

For 2010, Intellian brings boaters a full line of high-performance satellite systems for a range of power and sailboats worldwide including Fleet Broadband communications systems, so now Intellian can fulfill all your Sat TV AND Satcom needs.



INTELLIAN i1

11in Satellite TV Antenna System

The Intellian i1 system has the world's smallest in-motion marine satellite TV antenna ever, perfect for small boats. It brings the boaters an affordable, yet luxurious entertainment system to access their favourite satellite TV channels freely whether in port or cruising coastal waters. Wide Range Search (WRS) and Dynamic Beam Tilting (DBT) technologies make fragile motion sensors unnecessary with the most precise tracking capability and superior satellite signal reception at high speed or in rough sea conditions. The more up-to-date design of the i1 has an intelligent, built-in TriSat module in its control unit that offers boaters satellite TV broadcasts automatically without any extra conversion boxes and wiring.

KEY FEATURES

- High quality antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- Superior dynamic tracking
- Fastest Wide Range Search (WRS) algorithm
- DVB signal identification
- Inbuilt NMEA 0183 GPS interface
- Easy satellite information change and update
- Easy antenna status check and automatic diagnosis
- Easy antenna control using PC interface
- Reliable power supply to the antenna
- Embedded TriSat function
- Easy installation - single cable from the ACU to the antenna



INTELLIAN i2

13in Satellite TV Antenna System

The Intellian i2 is the world's first high-performance and compact satellite TV system with integrated HD and TriSat modules. The i2 is an absolute choice for boats as small as 25ft with its small, simple and powerful designs. WRS and DBT technologies maintain the highest signal strength available for crystal-clear TV reception even in rough conditions. The new intelligent Antenna Control Unit (ACU) offers a complete turnkey solution designed for simplicity and ease. To enjoy as many as three different satellites, the ACU supports automatic satellite switching right from your remote control just like home.

KEY FEATURES

- High quality antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- Antenna weighs less than 10lbs (4.5kg)
- DVB signal identification
- Inbuilt GPS system for fast satellite acquisition
- Inbuilt NMEA 0183 GPS interface
- Easy satellite information change and update
- Antenna status check and automatic diagnosis
- Easy antenna control using PC interface
- Built-in MIM (Multi-satellite Interface Module)
- Up to six receivers can be connected to ACU directly
- Every receiver connected to ACU can be a master receiver which can change the satellite freely by TV remote control



INTELLIAN i3

15in Satellite TV Antenna System

The Intellian i3 gives superior tracking performance and efficiency over systems of a similar size and is ideal for boats over 25ft whether cruising in coastal waters or offshore. The i3 offers the highest signal strength available - its innovations in Wide Range Search (WRS) and Dynamic Beam Tilting (DBT) technologies meaning there is no compromise in reception quality even in rough seas. Integrated smart HD and TriSat modules allow access to HDTV channels just like at home. Its single cable design between the antenna and the control unit means trouble-free installation and operation.

KEY FEATURES

- 15in antenna with 2-axis step motor
- Fully automated satellite search
- LHCP/RHCP or Horizontal/Vertical polarisation
- DVB signal identification
- Inbuilt GPS for fast satellite acquisition
- Inbuilt NMEA 0183 GPS interface
- Easy satellite change and update
- Antenna status check and automatic diagnosis
- Easy antenna control using PC interface



INTELLIAN i4

18in Satellite TV Antenna System

With its rugged, reliable and durable design, the Intellian i4 provides outstanding performance while the vessels cruising at high speed or in rough sea conditions. The i4 offers all the features of the i3 system and is ideal for boats over 50ft.

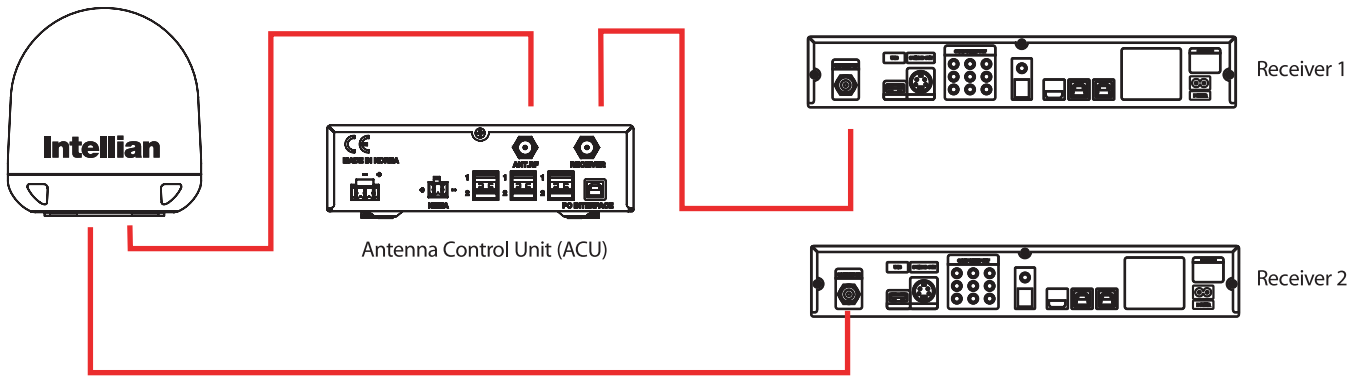


We accept most major credit and debit cards



Satellite TV & Communications

Tech info System Diagram



Specification

Product LineUp	i9P	i6/i6P	i4/i4P	i3	i2	i1
Antenna Dish Size	85 cm (33.5")	60 cm (23.6")	45 cm (17.7")	37 cm (14.6")	33 cm (13")	28 cm (11")
Radome Dimension(WxH)	108 x 110 cm (42.5"x43.3")	70 x 72 cm (27.5"x28.3")	50 x 54 cm (19.7"x21.2")	43 x 44 cm (16.9"x17.3")	37 x 38 cm (14.7"x15")	33 x 30 cm (13"x12")
Antenna Weight	55kg (121.2 lbs)	20kg (44 lbs)	11.6kg (25.6 lbs)	9kg (19.8 lbs)	4.5kg (9.5 lbs)	4.3kg (9.4 lbs)
Minimum EIRP	44dBw	47dBw	49dBw	50dBw	51dBw	52-53dBw
Automatic Skew Control	Yes	Yes (i6P only)	Yes (i4P only)	No	No	No
Antenna Control Unit	Yes	Yes	Yes	Yes	Yes	Yes
Built-in HDTV Module	Yes	Yes	Yes	Yes	Yes	No
Built-in Trisat Function	Yes	Yes	Yes	Yes	Yes	Yes
Built-in GPS System	Yes	Yes	Yes	Yes	No	No

What about...

How do I receive HDTV?

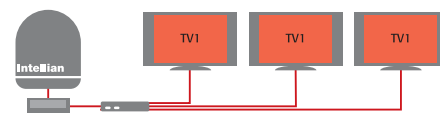
First, you must have a high-definition television set, along with an activated HD receiver. Domes fitted with the Intellian HD Antenna Control Unit (ACU) enables you enjoy full range of HD broadcasting.



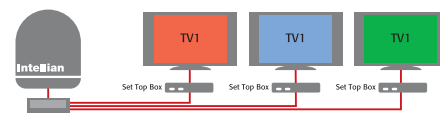
In the UK, HD programming is available through the Sky network or by using a FreeSat box. In the US, HD channels are available from Dish Network and Bell TV with the addition of a multi-satellite interface module (MIM). This electronic switch provides automatic switching between satellites.

Can I have more than one TV on my boat?

One Intellian antenna can be connected with multiple TVs. If each screen has its own satellite "set top" box (eg Sky Plus, FreeSat etc) you can watch different channels on each TV. However, if you only have one satellite set top box, all of the TVs will show the same channel -



Multiple TVs through single set-top-box - all TVs will see the same channel



Multiple TVs with individual set-top boxes - each TV can watch different channels

"I'm sailing from Europe to Asia - can the Intellian satellite TV antenna be used in different regions?"

The Intellian antenna models for Asia and Europe may appear to be identical physically but there are distinct differences in hardware inside the antenna - the Low Noise Block (LNB) used to convert the satellite signal into an IF signal is specific to the geographic location - this applies to any brand of SatTV antenna. It is impossible to receive Asia satellite signals using the European version and vice versa. If the vessel is installed with the European system and the vessel is cruising into Asian coverage then the system will become inoperative and will need to have the LNB replaced by an authorized Intellian Service dealer. Intellian recommends if you are going to travel to different geographical regions (North America, South America, Africa etc), please contact an authorized Intellian dealer in advance to check if there is any specific adjustment needed to be made.

Turn to the back page for pricing and ordering info NOW!

ICOM VHF FOREIGN FLAG & PRIVATE CHANNEL PROGRAMMING VISIT OUR WEBSITE, PART NO. ZICOPPC

Handheld VHF Radios & AIS

ICOM IC-M23

Compact Buoyant Handheld VHF Radio

Measuring just under 13cm in height, the IC-M23 is the smallest and lightest buoyant handheld on the market* and can match the audio and battery performance of comparable models. The IC-M23 features a bright internal red LED at the bottom of the radio automatically which starts flashing when the radio detects contact with water, a useful feature should you accidentally drop the radio. Another useful feature is that the DC charging jack is protected with a watertight rubber cap which should keep the charging points of the radio free from corrosion for years to come.

* As of 01/01/11

KEY FEATURES

- "Float'n Flash" LED
- Can deliver 5W RF / 600mW AF for 10 hours at 5-5-90 operation
- Aqua Quake draining function blows water away from the speaker grille
- Rugged submersible body (1m depth for 30 minutes, equivalent to IPx7)
- Easy to read LCD with large channel indication
- Dual/Tri-watch and TAG Scan functions
- Instant access to Ch 16 or Ch 37A (M1).

SUPPLIED WITH

Li-ion Battery Pack, charger, belt clip and hand strap




ICOM MA-500TR

Class B AIS Transponder

Designed for non-SOLAS vessels such as pleasure craft and fishing boats, the MA-500TR AIS transponder not only receives information from AIS vessels within range, it also transmits your vessel's information as well, so you will be seen by other vessels. It features a full dot-matrix display and visually shows real-time vessel traffic information.

The MA-500TR can operate as a stand alone unit or it can be connected via NMEA to a PC or compatible chartplotters, radars etc allowing AIS data to be overlaid in real time onto chart and radar displays. It can also be integrated with the Icom IC-M505 and IC-M603 fixed VHF radios which allows you to send DSC individual calls to a selected vessel instantly without the need to manually enter the vessel's MMSI number (requires firmware upgrade).



KEY FEATURES

- Dual channel receive capability
- 3 lines of NMEA0183 Input/Output
- IPX7 waterproof protection - 1 metre depth for 30 minutes
- Features collision-risk management functions including CPA (Closest Point of Approach), TCPA (Time to CPA), Target list and dangerous list and collision alarm
- External alarm connection



SUPPLIED WITH

Comes complete with the MXG-5000 GPS

ICOM IC-M35

Buoyant Handheld VHF Radio

Imagine a radio smart enough to adjust its volume level to account for the surrounding noise level. Icom's IC-M35 buoyant VHF marine handheld radio does just that with its Clear Voice Boost technology. This measures the ambient sound pressure level so that during a sudden burst of noise the IC-M35 not only automatically adjusts the volume but also the transmit level as well so your conversation is sent and received as clearly as possible no matter how noisy the background is. The inbuilt noise cancelling microphone further enhances the audio quality.

KEY FEATURES

- 6W output power
- Buoyant and waterproof to IPX7
- Clear Voice Boost override button
- Up to 8 hours use on a single charge
- Optional waterproof speaker microphone

SUPPLIED WITH

Li-ion battery pack, charger, belt clip and lanyard



ICOM IC-M33

Buoyant Handheld VHF Radio

This revolutionary 5W floating radio is waterproof to IPX7 and the ergonomic design of the case means it's easy to hold and use, even with gloved hands. It features a large, easy to read backlit LCD and the 980mAh Li-Ion battery pack provides 9 hours of operating time. Another innovative feature is the "AquaQuake" draining function - a vibrating sound from the loudspeaker clears water away from the speaker grille.

KEY FEATURES

- Quick channel selection with Favourite channel function
- Dual/Tri-watch and Auto scan functions
- 4-step battery life indicator, 2-step power saver
- 70 programmable channels
- Optional HM-165 waterproof speaker-microphone
- Optional alkaline cell battery case

SUPPLIED WITH

980mAh Li-Ion battery pack, charger, belt clip and lanyard





ICOM IC-M71

Handheld VHF Radio

The IC-M71 sets the standard for handheld VHF radios in design, waterproofing and battery technology. The durable and rugged body is waterproof to IPX8 standard and it was the first VHF marine handheld to feature output power of 6 Watts. Its internal speaker uses a bridge-tied load (BTL) audio amplifier to increase the audio output and it delivers a loud 600mW audio output for clear sound, even in noisy environments. The AquaQuake function ejects water from the speaker grille with low frequency sound.

KEY FEATURES

- Standard high capacity 2000mAh Li-Ion battery pack - up to 16 hours operation
- 2-step power saver
- 70 programmable channels
- Voice scrambler version available
- Hands-free operation with optional headset
- Optional speaker mic

SUPPLIED WITH

2000mAh Li-Ion battery pack, "Smart" battery charger, belt clip, lanyard




ICOM MXA-5000

Dual Channel AIS Receiver

This black box dual channel AIS receiver allows boat owners to receive AIS info (both Class A and Class B signals) on two channels simultaneously and output the information onto compatible PCs, combi displays, chartplotters or radars, aiding navigation and collision avoidance.



KEY FEATURES

- Data input port for multiplexing GPS and AIS data
- AIS data output via NMEA0183
- Full Class A and B duplex receiver
- Inbuilt antenna splitter



We accept most major credit and debit cards



Fixed VHF/SSB Radios

ICOM VHF FOREIGN FLAG & PRIVATE CHANNEL PROGRAMMING VISIT OUR WEBSITE, PART NO. ZICOPPC

ICOM IC-M505E

Fixed DSC VHF Radio

All-in-one DSC VHF with large dot matrix LCD, rotary volume, squelch and channel select knobs and fistmic. The IC-M505 is compatible with the HM-162 Commandmic enabling full function dual station control of its DSC functions, intercom and other remote functionality including foghorn and a loudhailer.

KEY FEATURES

- Advanced IPX8 waterproof protection
- Large backlit dot matrix LCD display
- Full function Class D DSC
- NMEA GPS input/output
- Dual / Tri Watch
- Fast Scan
- 25w hailer and auto fog horn facility

SUPPLIED WITH

Fistmic, power cable



ICOM IC-M603E

Fixed DSC VHF Radio

The IC-M603E is compatible with up to two HM-162 Commandmic's, allowing full remote control of all the built-in Class D DSC functions, as well as providing intercom capabilities and other remote functionality including foghorn and a loud hailer.



KEY FEATURES

- High resolution LCD with clear, easy to read characters.
- IPX7 Waterproof construction (1m depth for 30 minutes)
- Innovative AquaQuake draining function emits a vibrating sound to clear water away from the speaker grille
- Front and rear microphone connection
- Inbuilt 30 Watt 2-way hailer with listen back capability

SUPPLIED WITH

Fistmic, power cable

ICOM IC-M411E

Fixed DSC VHF Radio

A compact waterproof VHF/DSC radio ideal for small boats or where space is at a premium. The large speaker grille gives excellent audio quality. The buttons and display are easy to see in poor lighting conditions. The Aquaquake draining function emits a buzzing sound which sheds any water that gets into the speaker system, ensuring sharp, clear audio even in the worst conditions.

KEY FEATURES

- Dual/Tri watch
- Multiple scan
- Up to 70 programmable channels
- Programmable channel comment
- External speaker connection
- 100 MMSI directory and up to 40 received DSC messages
- Low voltage indicator and 2-step power saver function

SUPPLIED WITH

Fistmic, power cable



ICOM HM-162 COMMANDMIC III

Full Function Remote Fistmic

Handheld fistmic with LCD display and multi jog dial giving full control of the IC-M505 and IC-M603 radios including DSC functions, intercom and other functions such as foghorn or loudhailer etc.

This allows the user to operate the transceiver from many areas of the vessel such as the deck or fly bridge with ease. The Commandmic fits in the palm of your hand comfortably and the multi jog dial enables easy and intuitive operation.

KEY FEATURES

- Large backlit dot matrix LCD display
- Distress Alert button on rear of unit
- Large 45mm speaker give loud, clear sound
- Compatible with IC-M505
- Waterproof to IPX8



ICOM IC-M801 & IC-M802

SSB Transceiver

Powerful SSB radio system which meets Class E (IC-M801E) and GMDSS Class A (IC-M801GMDSS) specifications and features inbuilt DSC facilities. The main transceiver unit can be installed out of sight, while operation is via a compact remote control panel with a large, easy to read display.

Two large bank and channel dials make channel selection fast and easy. 1355 ITU channels, up to 16 banks of user channels, 17 banks of ITU channels - each with up to 20 channels per bank Inbuilt modem for email and data services. NMEA in for GPS, RS-232C port for PC input. The remote control can be integrated with the IC-M601 or IC-M505 VHF radio to form a complete MF/HF/VHF communications station.



KEY FEATURES

- Digital signal processor
- 125W (PEP) output
- VFO mode option
- Wide band receive coverage (0.5 – 29.9999MHz)
- Headphone jack, RS-232C/NMEA input, GPS input, printer output and D-SUB connector for NBDP/FSK terminal
- Available with telephone handset or fistmike
- IC-M801GMDSS meets MED96/98/EC wheelmark requirements for SOLAS
- Icom M802 for non-UK vessels also available

Turn to the back page for pricing and ordering info NOW!

STANDARD HORIZON GX1100E

Fixed DSC VHF Radio

Affordable ultra compact Class D DSC VHF Radio with an advanced die-cast chassis puts all the information you need right at your fingertips. Channel naming allows you greater ease of use and better channel recognition. Position, date and time are also displayed when interfaced with a GPS receiver. Submersible JIS7 / IPX7

KEY FEATURES

- Large clear dot matrix display
- Programmable Scan, Priority Scan, Dual Watch
- ATIS compatible
- NMEA in and out connections



STANDARD HORIZON GX1500E

Fixed DSC VHF Radio

Compact VHF with one of the largest displays in a radio of this size. Add optional CMP25B or VH-310 remote mic to become a complete dual station radio with the option to communicate and send a DSC distress call from two onboard locations.

KEY FEATURES

- Priority scan and dual watch
- Customisable channel naming
- Versatile user-programmable scanning
- Privately poll and display another vessel's position
- Waterproof front panel (IPX7)
- Position, date and time displayed when interfaced with a GPS or chart plotter



STANDARD HORIZON CMP30

RAM3 Second Station Mic

This submersible remote has an oversized LCD display and backlit keys. It operates as a second station to the radio allowing full control of the VHF at the flybridge, in the cockpit, tower or location of your choice.

KEY FEATURES

- Control all VHF functions including PA, foghorn, DSC
- Inbuilt distress alert button
- Display shows channel names and repeats GPS information
- Also controls AIS and waypoint functions when used with the GX2000E and GX2100E



SUPPLIED WITH

Bulkhead socket assembly, mounting clip

STANDARD HORIZON HX280E

Waterproof Handheld VHF Radio

Compact, rugged submersible handheld featuring all International, USA and Canadian channels and a highly legible LCD display with automatic backlight. The preset key allows you to recall the 10 most frequently used channels. Standard Horizon are so confident of the HX280E's waterproof integrity and reliability that they are offering a three year no quibble free of charge "repair or replace" guarantee if it fails for any reason.

KEY FEATURES

- Dual Watch
- Battery charge level indicator
- 16hr duty cycle from 1650mAh Li-Ion battery
- Standard three year guarantee

SUPPLIED WITH

1650mAh Li-Ion battery pack, belt clip



STANDARD HORIZON VH310

Second Station Telephone Handset

Submersible telephone handset capable of remotely controlling all radio and DSC functions of the fixed VHF, including remote control PA and fog signalling.

KEY FEATURES

- Complete control of radio functions
- Intercom facility between radio and other remote stations
- CT-100 7m extension cable available

SUPPLIED WITH

Wall mount cradle, routing cable, waterproof panel mount connector



STANDARD HORIZON HX750E & HX760E

Waterproof Floating Handheld VHF Radio

Rugged handhelds with an inbuilt thermometer, SOS strobe light and 6W transmit power. Features programmable scan, priority scan, dual watch and an external speaker mic connector. Can be powered using standard AAA drycell batteries in an emergency using the optional FBA-38 adaptor. The HX-760E can also be used with an optional BlueTooth headset.

KEY FEATURES

- Waterproof and floats
- External speaker mic jack
- Preset key (10 channels)
- 700mW audio output

SUPPLIED WITH

1150mAh Li-Ion battery pack, mains charger and belt clip



HX-760E with optional BH2 BlueTooth headset



STANDARD HORIZON GX2000E & GX2100E

Fixed DSC VHF Radio

Compact AIS enabled DSC VHF's with large, clear 1.8in dot-matrix displays. The GX2000E accepts data from an external AIS receiver via NMEA, the GX2100E has its own built-in dual channel AIS receiver. When connected to an external GPS, both models can store up to 100 waypoints, which can be selected and navigated to using a unique compass display. The display will also give all the usual GPS information about speed, course and bearing to a waypoint. Both models feature a powerful 30 Watt PA/loud hailer that is pre-programmed with fog signals. Both models are compatible with the CMP30 remote access mic.

KEY FEATURES

- AIS targets displayed in a radar style format*
- AIS info - MMSI, call sign, ship name, bearing, distance, speed and course*
- Closest Point of Approach (CPA) alarm
- Make a DSC call to a specific AIS vessel simply by selecting the target and pressing the call button - no need to enter the MMSI number
- Position polling, ideal for flotillas and fishing fleets
- Output AIS data to chartplotters etc via NMEA
- ClearVoice noise cancelling speaker microphone
- Rugged die cast chassis, waterproof to JIS7 / IPX7

*Requires an external AIS input with the GX2000E



STANDARD HORIZON HX500E

Waterproof Handheld VHF Radio

Submersible handheld VHF that has all the features of the HX280E with the option of using external speaker microphones and headsets via the waterproof accessory socket. Now with Lithium Ion battery pack for longer life.

KEY FEATURES

- Selectable transmit power
- 700mW loud audio
- VOX hands-free operation with optional VC-24 headset

SUPPLIED WITH

Li-Ion battery pack, 12v overnight charger, cigarette lighter cable, belt clip



Antennas & Accessories

V-TRONIX ANTENNAS & FITTINGS

This is just a small sample of the full range of Shakespeare's V-Tronix range of antennas and accessories. Contact us for advice and full details.

YHK HAWK

**Stainless Steel Whip & Hawk
Wind Indicator**

- Low windage
- 20m cable
- Solderless connection
- PL259 plug



YWX WHIPFLEX

Stainless Steel Whip

- Low windage
- 20m cable
- Solderless connection
- PL259 plug



HA156C HELIFLEX

Stub Antenna

- Low windage for racing yachts
- Helical construction
- 20m cable
- PL259 plug
- No groundplane required



YRR RAIDER

RIB Antenna

- Specially designed for rigid inflatable boats
- Short helical design to avoid snagging
- Solderless connection
- 8m cable
- PL259 plug



MD 10S

1.5m GRP Antenna with polycarbonate ferrule

- Ideal for smaller power boats & workboats
- 6m cable, PL259 plug
- Complete with white nylon Ratchet Mount



RV120

1.5m GRP Antenna with stainless steel ferrule

- Ideal for smaller power boats & workboats
- 6m cable
- PL259 plug
- Stainless steel ferrule



420

1.5m GRP Antenna

- Ideal for cruising vessels in light to moderate seas
- Integral white polycarb
- 'Lift N Lay' Mount
- 4.5m cable
- PL-259 plug



ARMNT-P

Ratchet Mount, Nylon

- Four-way swivel mount
- Deck or side mount
- Quick release lever
- UV resistant
- Suitable for antennas less than 2.4m



ARMNT

Ratchet Mount, Stainless Steel

- Four-way swivel mount
- Deck or side mount
- Quick release lever
- UV resistant



ARMRM-S

Ratchet Rail Mount, Stainless Steel

- For 22mm & 25mm vertical/horizontal rails
- Quick release lever



ARMRM-P

Ratchet Rail Mount, Nylon

- For 22mm & 25mm vertical/horizontal rails
- Complete with rubber gasket
- Quick release lever



ARM-S

Economy Rail Mount, S/Steel

- For 22mm & 25mm round or square rails
- Vertical or horizontal fit
- Can be mounted on flat surfaces
- Complete with nylon adaptor



ARM-P

Fixed Rail Mount, Nylon

- For 22mm & 25mm rails
- Complete with adaptor, rubber gasket & hexagonal key
- Can also be mounted on flat surfaces
- Complete with nylon adaptors



ALDHM

Fixed Base Mount, Stainless Steel

- 100mm high, 75mm dia. base
- Ideal for fitting to radar arches
- Excellent for GPS & marine TV antennas



ALDHM-P

Flange Mount, Nylon

- 25mm high, 70mm dia. base
- Suitable for moderate duty operations



5216

Whip Antenna

- Specially built for sports boats
- Super lightweight
- Black stainless steel
- Gold-plated connector
- Black "L" bracket included for mast mounting



SL 156 SHORELINK™

Emergency VHF Antenna

- Sealed in waterproof container
- Stored easily on bulkhead or in flare pack
- 6m miniature co-axial cable
- PL259 plug
- Compulsory for RORC racing



2020-GE SEAWATCH™

35cm Omnidirectional TV Antenna

- Compact and lightweight
- Built in pre amp
- AC/DC power supply
- 1"-14 thread ferrule
- Low consumption - 83mA at 12v



WS200-P

Extension Loudspeaker

- Surface or flush mount
- Weatherproof, UV resistant
- Suitable for 4 or 8 ohm systems



ACC105

Deck Plug & Socket

- For RG58 cable
- With N-type connector, shroud & s/steel screws
- With 2 protection caps



4357-S

Marine Band Separator

- Eliminates need for separate AM/FM & VHF antennas
- 2.5m AM/FM cable
- 0.9m VHF cable & connectors



390

7m HF/SSB Antenna

- 2 section with conductors
- Reinforced insulation allows input power up to 1Kw
- Side-feed termination band
- Base is 4.15m; top is 2.87m
- Chrome plated brass ferrules with 1"x14TPI base ferrule



5247-A

0.9m Stainless Steel Whip

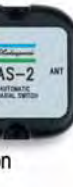
- Ideal for sports boats, small fishing boats etc
- 'Lift N Lay' action for simple set up and lay down
- SO239 connector
- 'L' bracket



AS-2

VHF Automatic Switch

- Toggles two radios to one antenna
- Auto switches when you transmit
- Radio stays locked onto antenna until switch detects a transmission from the other radio

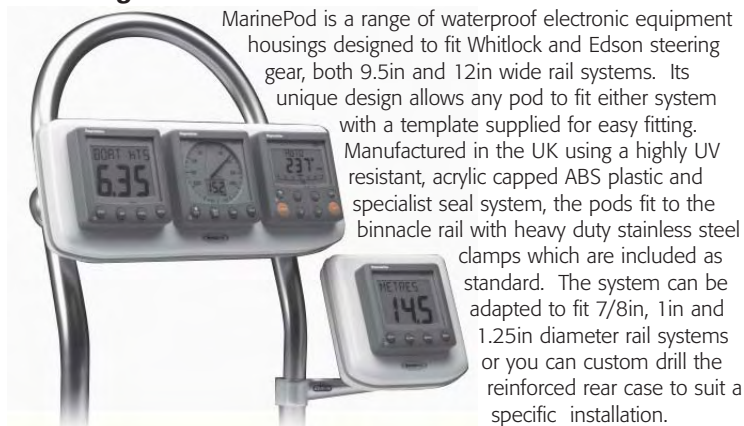


Remember...
A radio is only as good as its antenna!
No matter how much you pay for a radio, its performance will be directly proportional to the quality and performance capabilities of the antenna. Don't compromise - insist on Shakespeare's V-Tronix range.

Equipment Mounting Pods

MARINEPOD

Mounting Solutions



MarinePod is a range of waterproof electronic equipment housings designed to fit Whitlock and Edson steering gear, both 9.5in and 12in wide rail systems. Its unique design allows any pod to fit either system with a template supplied for easy fitting. Manufactured in the UK using a highly UV resistant, acrylic capped ABS plastic and specialist seal system, the pods fit to the binnacle rail with heavy duty stainless steel clamps which are included as standard. The system can be adapted to fit 7/8in, 1in and 1.25in diameter rail systems or you can custom drill the reinforced rear case to suit a specific installation.

KEY FEATURES

- Mount instruments, radar, chartplotters and more at the helm
- Option to factory pre-cut pods to fit most popular makes and products
- Custom colour moulding option
- UV resistant mouldings
- Specialist seal system protects the back of the equipment from water ingress

MARINEPOD MSP1

Mounting Pod

The MSP1 is a large 420x330mm pod suitable for bigger combi displays and chart plotters with a display size of over 10in. It can also be used to mount several smaller displays together such as instruments, autopilot control etc.

KEY FEATURES

- Designed for large multifunction displays over 10in screen size
- Also can be used with a smaller 8in display plus additional instruments
- Maximum useable face area 420x330mm
- Maximum depth 160mm

SUPPLIED WITH

4 stainless steel clamp brackets, fixings



MARINEPOD MSP2

Mounting Pod

The MSP2 has a 370x290mm face making it ideal for medium-sized chartplotters, radars and combi displays with 7-8in displays. It is the same width as the MSP3 instrument pod and so can be mounted together as a single pedestal installation.

KEY FEATURES

- Designed for medium size multifunction displays between 7-8in screen size
- Width matches MSP3
- Maximum useable face area 370x290mm
- Maximum depth 160mm

SUPPLIED WITH

4 stainless steel clamp brackets, fixings



MARINEPOD MSP3 & MSP4

Instrument Pods

The MSP3 and MSP4 instrument pods are designed to fit three or four standard 110x110mm displays respectively, but are also suitable for engine controls, wider multi-function instrument displays and autopilot control heads (eg Raymarine ST7002+ etc).

KEY FEATURES

- Designed for mounting 110mm instruments from manufacturers such as Raymarine, Garmin, Nasa, Tacktick, Furuno etc
- Can also be used for engine instruments and controls
- Maximum depth 60mm

SUPPLIED WITH

2 plastic clamp brackets, fixings



MARINEPOD MSP5-A

Single Instrument Pod

The MSP5-A is designed for mounting a single 110x110mm instrument. The rear of the case has an extrusion with flat horizontal mounting point which can be used to attach the pod to a bulkhead or other fixing point. The MSP5-A is supplied as standard with a stainless steel mounting clamp which is suitable for attaching to a pedestal guard rail.



KEY FEATURES

- Maximum useable face area 150x155mm
- Maximum depth 75mm
- Also available without the mounting clamp (MSP5)

SUPPLIED WITH

Stainless steel mounting clamp, fixings

MARINEPOD MSP6

Custom Pod for SC500

There's no better place than the helm to view chart and AIS information. The MSP6 is a custom made rail mount pod suitable for the DigitalYacht SmarterChart 500 series 5in combi displays.

KEY FEATURES

- Custom pod for DigitalYacht SC500
- Easy binnacle, rail or steering hoop mounting using an adjustable clamp

SUPPLIED WITH

Adjustable 1-1.25in clamp



MARINEPOD MSP1-P & MSP2-P

Power Pods With Deck Base

The MSP1P is a mounting pod designed for large multi function displays with screen sizes over 10in. It can also be used with a smaller 8in display plus additional instruments. The smaller MSP2P is designed for medium size multi function displays with screen sizes between 7-8in.

Both feature a deck-mounted swivel base which allows easy rotation of the pod to suit a range of viewing angles, making them ideal for power boat applications. They fix easily to the deck or cockpit using just four screws.



KEY FEATURES

- Deck-mounted swivel base
- MSP1P - Maximum useable face area 420x330mm
- MSP1P - Maximum depth 160mm
- MSP2P - Maximum useable face area 370x290mm
- MSP2P - Maximum depth 160mm



HOW WE DO BUSINESS



WHY NO PRICES?

People often ask why we don't print prices in our Buyer's Guide, the reason is simple -

- The Buyer's Guide comes out once a year, but prices change daily.
- At any one time there will be a number of special offers or mega deals on particular items.
- Some of our suppliers don't like us advertising low prices as it upsets the other dealers who don't have our volume and can't compete!

If you want to find out our latest prices why not visit our online store www.mesltd.co.uk where you can shop securely online, 24hrs a day. Getting an account is easy and free of charge - simply visit our site, register and you can immediately benefit from our megadeals, bundle package specials and other great offers - it even remembers what you've put in your basket for when you return next time!

If you wish we can also provide you with our complete price list as PDF file on request -

- **email us** on sales@mesltd.co.uk,
- **call us** on 01179 114111 or
- **fax us** on 01179 556289



PAYMENT

We accept the following methods of payment - cash, cheque and most credit and debit cards -



- MES will not charge your credit/debit card until the goods are shipped unless it is a highly specialised item, in which case we may ask for a small deposit at the time of order.
- MES also accept Euro and US Dollar payments and bank transfers.



EXPERT INSTALLATION & SUPPORT

Whilst all of the products we offer come with detailed installation instructions, you can't beat the performance you will get from a professional installation. Ocean Install - a sister company of MES - provides specialist marine electronics design, consultancy, installation and service.

- With installation bases in Southampton, Poole, Bristol, London, Falmouth, Palma and Antibes, we offer a pan European service at extremely competitive prices. Our team of highly trained technicians offer an unrivalled degree of quality, know-how and craftsmanship.
- Ocean Install's services start at the outset of any project. Our design and consultancy division will put together a detailed electronic system design - ideal for large scale projects where equipment is to be installed by 3rd parties or by a boat builder.
- Our unique **Kre-8!** design solution gives you a single document to allow a sophisticated electrical and electronics system to be implemented in a cost effective manner - and to deliver the required technology effectively. The **Kre-8!** package can including kitting and tendering lists allowing you to shop for the best value solution.
- Our engineers are all factory trained electronic technicians as well as having intimate knowledge of boats. This winning combination of knowledge and practical experience means you'll get a truly professional installation and get the most out of your equipment. Whether it is a simple radar system or a complex computer network, we'll be happy to offer a competitive quote.
- If you prefer to fit yourself, then you may like to take advantage of our commissioning service - our team will pick up where you leave off, carrying out final connections and setting up the system. You may also be able to take advantage of extended warranty options where we commission the equipment.
- Service - we also offer on board and bench service repair for electronic equipment.
- Support & Training - a few hours spent on professional training can really reap rewards in terms of product operation and usability. Ocean Install has a team of people happy to offer friendly and easy to understand product training and help you get the best out of your system.
- Sophisticated products need sophisticated and specialist support. We're here to provide the support you need by phone, fax and e-mail. The fastest route to a support solution is to e-mail our team of technicians at tellmehow@oceaninstall.com with your customer reference number and details of your query and we'll have you up and running in no time.
- We offer a range of extended warranty packages with onboard and world wide support



PROFESSIONAL TRAINING

With loads of extra functionality and a whole host of new features built into the latest electronic products, it makes sense to get up to speed on your system and get professional training.

Our training facility at our Bristol office runs a series of short, 1 day intensive courses on some of the most popular systems we sell. They aim to provide you with the techniques to get the best from your system and can also cover installation and interfacing for DIY installers.

Courses are endorsed by the manufacturers and are designed around small user groups to get the best possible knowledge transfer. Book today by calling 01179 114111 or email sales@mesltd.co.uk



UK Head Office -
Marine Electronic Services Ltd
 Marine House
 Unit 10, City Business Park
 Easton Road
 Bristol BS5 0SP
 Tel 01179 114111
 Fax: 01179 556289
 Email: sales@mesltd.co.uk
 Web www.mesltd.co.uk



Poole Sales Office -
 Unit 2
 Vitrage Technical Park
 Nuffield Industrial Estate
 Witney Rd
 Poole BH17 0GL
 Tel 01202 666066

Please call for European offices

NAVTEX FOR LESS!

NASA Marine's new Clipper Easy Navtex is a low cost Navtex system with a large LCD display



PAGE
20

NEW SAFETY GEAR

Ocean Signal - a new manufacturer offering a range of GMDSS-approved SARTs, EPIRBs and handheld VHF radios

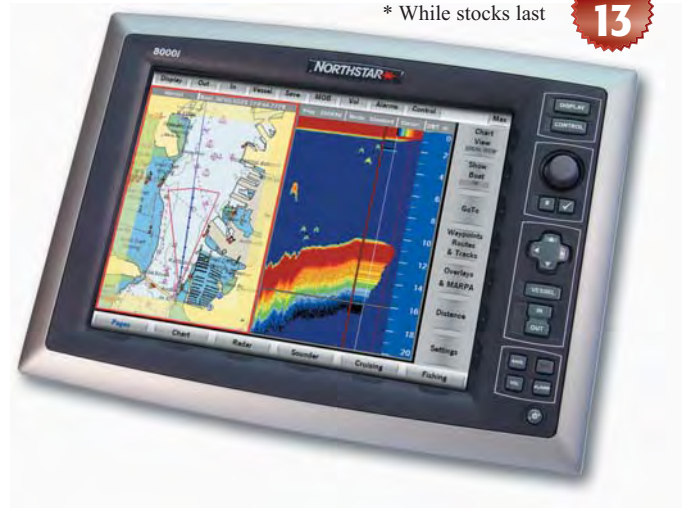


PAGE
45

UNMISSABLE DEAL!

This superb 12in TOUCHSCREEN combi display was £4000, you can get it from us for only £1400!*

* While stocks last



PAGE
13



©2011 Marine Electronic Services Ltd

Created by  Avalyn Design avalyn.co.uk

01179 114111 • www.mesltd.co.uk