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**MARINE  
ELECTRONIC  
SERVICES  
LTD**

**Marine Electronics  
Buyer's Guide 2007**

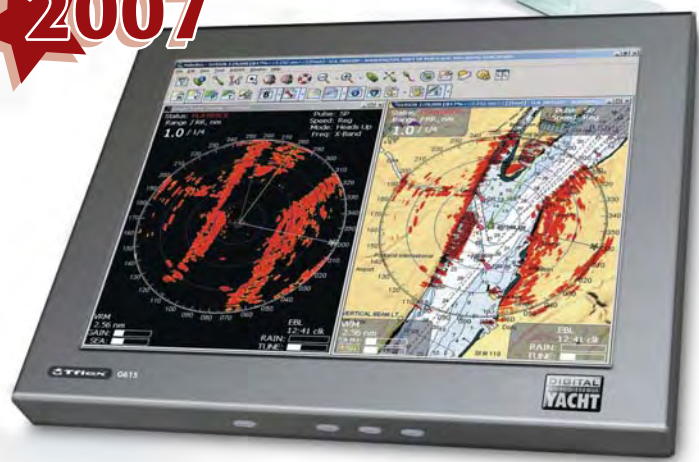
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**NEW FOR  
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AND STANDARD HORIZON**



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COMBI SYSTEM PACKAGES!**



**HOW DO THEY DO IT?  
STANDARD HORIZON CP180**



Standard pack big-unit features into this compact, ultra-low cost colour high resolution chartplotter!

**LOW COST SAT TV  
KVH TRACVISION M3**



Now there's no boat too small to benefit from satellite TV with this new tiny 14.5in dome system!

**STUNNING NEW LOOK  
GARMIN 2007 RANGE**



Garmin break into 2007 with their all-new chartplotter and combi range - check the specs inside!

**PLUS OVER 500 OTHER GREAT PRODUCTS INSIDE!**  
JUST A SMALL SELECTION OF OUR FULL RANGE OF OVER 6,000 PRODUCTS  
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## THE MARINE ELECTRONICS BUYER'S GUIDE 2007



Welcome to our latest Buyer's Guide with hundreds of exciting new products including radars, plotters, autopilots, instruments and satellite communications. Over the past 19 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 Cote D'Azur office based in Antibes will also cater for all your Mediterranean 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 new online store [www.mesltd.co.uk](http://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

**By Manufacturer**

Avtex	50
Bose	50
C-Map	36-38
Digitallyacht	42-43
Echopilot	33
Furuno	25-27
Garmin	13-18
Geonav	23
Icom	46-47
Iridium	48
KVH	39
Linn	50
Lowrance	30
Magellan	22
Maxsea	41
McMurdo	32
NASA	12
Navionics	34-35
Navman	19-21
Nobeltec	40
Northstar	23
Raymarine	3-11
Scanstrut	49
SeaMe	31
Silva	31
Simrad	28-29
Standard Horizon	44-45
Thrane & Thrane	48
Thuraya	48

**By Product**

Active Radar Reflector	31
AIS	3, 4, 12, 43
Antenna Mounts	49
Autopilots - Cockpit	8, 29
Autopilots - Inboard	9, 10, 19, 26, 29
Cameras	5
Cartography	18, 22, 34-38, 41
Chartplotters	3-6,14-16,19,21,23,26-29,43,45
Combi Units	3-6,15,16,19, 21, 23, 26-29, 45
Entertainment	50
EPIRBs	32
Fishfinders	3-6,15-17,19, 21, 23-26, 29, 45
Forward Looking Sounders	33
Fuel Monitoring	19, 21
GPS - Fixed	26, 43
GPS - Handheld	6, 13, 22, 23, 29
In-Car Navigation	22
Instruments	7, 12, 20, 25, 30
Loudspeakers	50
Man Overboard Monitors	4
Marine Monitors	5, 43, 50
Navtex	3, 4, 12, 25, 32
PC Software	4, 27, 34, 36, 40, 41
PC Systems & Peripherals	42, 43, 46
PLBs	32
PMR Radios	46
Radars	3, 4, 15, 16, 19, 25, 27-29, 40, 43
SARTs	32
Satcoms/Satellite Internet	39,48
Satellite Compass	26
Satellite TV	11, 39, 48
SSB Radios	12,47
Superyacht Systems	24
VHF - Fixed	6,11,20,26,29,30,44,47
VHF - Handheld	6,30,44,46
VHF Antennas	46
Weather Receivers	12

# Raymarine

## C Series Combi Displays

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

### RAYMARINE C120

#### 12.1in Colour Combi Display



**NOW WITH AIS**  
**NOW WITH NAVTEX**

Superb single station multifunction navigation display with a 12.1in high resolution 256 colour daylight viewable screen. The C-Series brings all aspects of navigation into one location, acting as a central hub and giving total navigation control from a single station - chart, instrument, autopilot, GPS, and fishfinder. Screen configuration is simple and the screen can be split to display multiple information sources simultaneously.

On its own, the C120 is a powerful chartplotter, using the latest Navionics XL3 Gold charts. The SeaTalk and NMEA ports enable it to be easily connected to autopilots, instruments, DSC VHF radios and more. To unlock the real power of the C120, simply add plug in a radar antenna and/or the DSM3000 digital sounder module and the C120 becomes a multifunction combination display - chart, radar and echosounder.

Despite all these features, the C120 is surprisingly simple and intuitive to use, thanks to its five softkeys that guide you through the functions. Even entering waypoint and route names is quick and easy using the innovative twist and click rotary knob.

#### KEY FEATURES

- Excellent contrast and wide viewing angle
- Compact flash memory gives unlimited storage
- **NEW!** Display Navtex info from external engine
- Radar chart overlay option
- **NEW!** AIS chart overlay from external AIS engine
- True and relative motion options
- User configurable custom windows option
- Auto Range changes chart scale to keep vessel and waypoint on the same screen while underway
- Radar, SeaTalk, SeaTalk2 and Digital Sounder module inputs
- NMEA input and output

#### SUPPLIED WITH

Power & interface lead, mounting bracket.

**ORDER CODE - ZRAYE02022**

### RAYMARINE C80

#### 8.4in Colour Combi Display



If you want to enjoy the benefits of having a C Series on board but your budget doesn't stretch to the C120, then consider the C80, which offers all the power, features and fantastic sunlight-view split screen display but in a smaller 8.4in package.

**ORDER CODE C80 - ZRAYE02020**

### RAYMARINE C70

#### 6.5in Colour Combi Display



This is the perfect solution for owners of smaller boats who don't want to settle for less when it comes to features - the C70 manages to pack in all the functions of its bigger brothers into a compact unit with a 6.5in sunlight-view 256 colour split screen display.

**ORDER CODE C80 - ZRAYE02018**

### RAYMARINE C & E SERIES

#### Radar Scanners

When adding radar to your C or E series you have your choice of radome or open array scanners, all of which deliver unparalleled performance.

#### KEY FEATURES

- Compatible with any C or E Series display
- Lower receiver noise figure (less than 5 dB) for more efficient target echo reception
- Auto GST Fully automatic Gain, Sea Clutter and Tune Control for hands off operation and optimum performance
- Advanced microprocessor controlled transmitter receiver features 8 Pulse width/PRF settings, providing enhanced targets returns though every range scale



#### RADOME KEY FEATURES

- Choice of 2Kw (18in) or 4Kw (24in) models
- Lightweight and compact
- Ideal for smaller sail and power boats
- Minimal power consumption



#### OPEN ARRAY KEY FEATURES

- Choice of 4Kw and 10Kw, 4ft or 6ft models
- Ideal for larger power boats and superyachts
- Narrow horizontal beam widths for enhanced target separation
- Longer range scales
- Increased power output for improved long range performance
- Quiet operation

### **i** Tech info

#### Raymarine Radar Scanners

When ordering your Pathfinder radar you will need to specify which antenna you require -

Power (kW)	2kW	4kW	4kW	4kW	10kW	10kW
Type	RD	RD	OA	OA	OA	OA
Size (in)	18	24	48	72	48	72
Weight (kg)	6.5	7.5	30	33.4	30	33.4
Range (nm)	24	48	72	72	72	72
Part No.	ZRAYE 52065	ZRAYE 52067	ZRAYT 52001-S	ZRAYT 52013-S	ZRAYT 52012-S	ZRAYT 52014-S

**RD** - Radome Antenna (enclosed)

**OA** - Open Array

*Power consumption is typical, and may increase for Open Array antennas in high winds.*

Call us to discuss your requirements if you are in any doubt.

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

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

### RAYMARINE E SERIES

#### 12.1in Colour Multi-Station Combi Display



**HOT PRODUCT!!**

**NOW WITH AIS**  
**NOW WITH NAVTEX**

Raymarine's E120 Series multifunction, multi station navigation display combines chartplotter, fishfinder, radar, instrument data and on-board video displays into a single, rugged, easy to use unit that now offers compatibility with the very latest Navionics Platinum cartography! The amazing 12.1in, 256 colour ultrabright display is sunlight viewable and waterproof, so is equally at home mounted above or below decks. The multi station facility means you can fit one at the chart table and another at the flybridge, in the cockpit or wherever you need to keep in touch with what's going on - and the superfast 100 megabit SeaTalk<sub>hs</sub> networking means data and images are transmitted virtually instantaneously.

#### KEY FEATURES

- Single, dual or multi-station configurations
- **NEW!** Display Navtex info from external engine
- Radar chart overlay option
- **NEW!** AIS chart overlay from external AIS engine
- Plug & play - connect up to 8 SeaTalk<sub>hs</sub> devices
- Display remote video sources from CCTV cameras, entertainment systems and more
- Export navigation video to remote monitors or displays
- Display NMEA2000 compatible engine system data

- Network with SeaTalk, SeaTalk2, SeaTalk<sub>hs</sub>, NMEA0183 or NMEA2000 instruments
- Patented digital sonar technology for precise targeting of fish and bottom structure
- Optional G Series Remote Station Kit - see and control your E Series anywhere on board!
- Bracket or flush mount

#### SUPPLIED WITH

Power & interface lead, mounting bracket.  
**ORDER CODE - ZRAYE02013**

### RAYMARINE E80

#### 8.4in Multistation Combi Display



The 8.4in E80 has all the features of the E120 in a more compact package - ideal as a second station, or where space or budget is limited!

**ORDER CODE - ZRAYE02011**

### RAYMARINE LIFETAG

#### Wireless Personal Safety System

**Personal safety revolution!** The Raymarine LifeTag is a wireless crew monitoring and man overboard alert system. The base station monitors up to 16 different LifeTags simultaneously. If a person falls overboard or a tag moves out of range of the base station, an onboard alarm is sounded.

**NEW FOR 2007**



#### KEY FEATURES

- Automatic or manual activation
- LifeTag data displayed on C/E Series & Instruments
- MOB position automatically plotted as waypoint

#### SUPPLIED WITH

2 LifeTag Wireless Pendants, LifeTag base station, batteries, straps, alarm module  
**ORDER CODE - ZRAYE12185**

### RAYMARINE DSM300

#### HD Digital Sounder Module

The DSM300 adds HD Digital sounder technology to the C and E Series combi displays. Choose from a wide range of transducers to suit most applications (see below).



#### KEY FEATURES

- 600 or 1000 Watt operation depending on choice of transducer
- 50/200kHz dual frequency
- Submersible to IPX7 standard
- hsb2 networking compatible with "Plus" series radars, chartplotters and fishfinders
- 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<sub>hs</sub> crossover coupler or SeaTalk<sub>hs</sub> Network Switch is required

**ORDER CODE - ZRAYE63069**

### Tech info

#### Raymarine Echosounder Transducers

Suitable for the DSM25 and DSM300 Digital Sounder Module 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 RAYTECH RNS 6.0

#### PC Navigation Software Suite

Raytech RNS V6 is a powerful PC based electronic charting system supporting raster, vector and aerial photo cartography. Plan waypoints and routes, transferring them between your PC and Raymarine chartplotters and combi displays. With a customisable user interface, SeaTalkhs network support, an inbuilt worldwide tides and currents database and the option to download weather forecasts from raymarine.com just some of the features of this system you can unlock the real potential of your onboard PC.

#### NEW IN V6 FEATURES

- Integration with E Series displays using SeaTalkhs
- Simple single Ethernet connection between the PC and the SeaTalkhs network switch
- Now supports Navionics Gold and new Navionics Platinum charts on Compact Flash cards
- Improved waypoint and route sharing tools
- New HD Digital fishfinder playback feature allows you to record and play back the fishfinder display

#### KEY FEATURES

- Customisable user interface - organise navigation data into easy to use pages
- Download and animate weather forecasts from the Raymarine website
- Navigation and tactical tools - monitor wind, lay lines, other vessels and weather to enable you to make better decisions on the race course
- DataTrak time-based graphs - monitor wind trends and compare instrument data and the boat's performance
- Polar data collection and analysis - calculate your optimum speed and heading under varying conditions
- Route optimisation - identify the ideal route based on ocean current, wind speed and direction and your boat's polar characteristics

#### RECOMMENDED OPTIONS

- USB Navigation Keyboard
- G170 or G190 Marine Monitor
- USB Compact Flash card reader for Navionics Gold and Platinum charts. This also enables you to transfer routes and waypoints between Raytech and your Raymarine chartplotter/combi display using blank Compact Flash cards

#### MINIMUM SYSTEM REQUIREMENTS

- Pentium III 1.0GHz processor
- 128Mb RAM
- Windows 2000/XP
- CD-ROM drive
- Serial port
- Ethernet Port (for SeaTalkhs networking) or PCMCIA or USB2 port (for hsb2 integration)
- Monitor capable of displaying 1024x768 resolution, 16 bit colour
- Compatible USB Compact Flash card reader (for Navionics Gold and Platinum charts)

#### RECOMMENDED SYSTEM REQUIREMENTS

- Pentium IV processor or faster
- 512Mb RAM or higher
- NVIDIA GeForce 4 graphics processor
- Windows XP

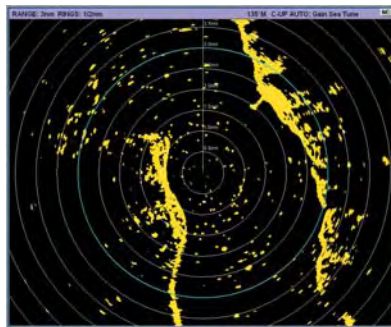
#### COMPATIBLE CHARTS

- Navionics Gold, Platinum and Hot Maps
- C-Map NT+ C-Cards (requires USB C-Card reader)
- C-Map NT+ PC charts
- MapTech raster charts
- Softchart raster charts
- NDI Canadian charts

#### SUPPLIED WITH

Raytech RNS V6 CD-ROM, 2m serial data cable, MapTech planning charts, SoftChart planning charts, C-MAP NT+ planning charts

**ORDER CODE - ZRAYE83040**



Radar Display



Radar/Chart Overlay



Raster Chart Display/3D Chart Display

### RAYMARINE G170/G190

#### 17in & 19in Marine Monitors



The G170 and G190 multi-purpose marine displays can be used with a wide range of devices - onboard PCs, onboard CCTV camera monitoring, satellite TV, DVD and game consoles, in fact, any navigation device or system with a VGA or DVI output.

#### KEY FEATURES

- Ultra bright sunlight viewable display technology
- Wide viewing angle and sharp contrast
- Adjustable backlighting with night mode
- Low profile, thin bezel design
- 9 video inputs
- On Screen Display (OSD) menu
- Picture In Picture (PIP)
- Direct access keys for each video input source, PIP, brightness and night mode
- Impact resistant glass fascia is bonded to the LCD to prevent condensation and improve visibility
- Anti-reflective filter optimises sunlight visibility

**ORDER CODE G170 - ZRAYE02036**

**ORDER CODE G190 - ZRAYE02037**

### RAYMARINE SEATALK2 REMOTE

#### Remote Navigation Keyboard

Waterproof keyboard giving full control of your E-Series. Combine with the new G170 or G190 Marine Monitors to create a 17in or 19in Second Station.



#### KEY FEATURES

- Simple USB connection to E Series
- Dedicated control keys, alphanumeric keypad, rotary control, cursor pad and softkeys
- Can be used as a fixed or handheld unit

**ORDER CODE - ZRAYE55061**

### RAYMARINE CAM100

#### Day and Night Vision Video Camera

Instantly transforms the E-Series into a powerful onboard video observation system. Improve docking safety by monitoring blind spots or keep track of the engine room and crew from the helm. Use multiple cameras for a total view of your vessel's surroundings.



#### KEY FEATURES

- Plug & Play with E-Series
- Automatic switching between true colour (day) and black & white (night) use
- Up to 15m total darkness visibility in night mode.

**ORDER CODE - ZRAYE03006**



#### ALSO AVAILABLE

- CAM50 Dome Camera - an unobtrusive design ideal for interior installations. Ceiling or wall mount.

### RAYMARINE A65

#### 6.5in Colour Chartplotter/Fishfinder



**GREAT VALUE BUNDLE PACK!**  
A65 with Raystar 12 GPS sensor, DSM25 Digital Sounder Module and P58 Transom Mount Triducer  
**SAVE £££!**  
See website for details

**HOT PRODUCT!!**

A new compact, yet powerful dual function display, combining simplicity with advanced chartplotting. On its own it's a colour Navionics XL3 Gold chartplotter, but by simply adding the DSM25 Digital Sounder module and an appropriate transducer it is transformed into a full function chartsounder with split screen display.

#### KEY FEATURES

- 6.5in sunlight viewable wide angle colour display
- Rugged submersible construction (IPX7 standard)
- Console mount option
- NMEA input/output
- Head up, chart up, north up display options
- Fast chart screen redraw
- 1000 waypoints, 50 routes
- Optional Compact Flash memory expansion

#### SUPPLIED WITH

12 channel WAAS differential GPS, power & interface cable, mounting bracket

ORDER CODE - ZRAYE33022

### RAYMARINE RC400

#### Portable 3.5in Colour Chartplotter

The RC400 packs big navigation features into a compact portable GPS. Both fixed mount and portable, the RC400 comes standard with a mounting bracket and cables for 12 volt power and NMEA0183 interfacing. The battery compartment holds 4 AA rechargeable Nickel metal hydride (NiMH) batteries and also accepts alkaline batteries for added convenience.

#### KEY FEATURES

- 3.5in Daylight viewable transfective colour LCD
- Waterproof to IPX7
- 12 Channel Satellite Differential GPS with WAAS/EGNOS
- Built in world map
- Navionics Gold cartography
- Unlimited waypoint, route and track storage using compact flash cards
- Raymarine SmartRoute automatically builds routes and waypoints from previous tracks
- Autozoom Mode intelligently maintains your vessel and your waypoint on the best chart scale while underway
- Screen Amplifier automatically offsets your vessel position for maximum "look ahead" on the chart display
- North Up, Course Up and Head Up
- 16 range scales 1/8 to 4096nm
- PC Waypoint transfer (via NMEA WPL sentence)
- Arrival / XTE / anchor / fix alarms
- Tidal information supported (height and current)
- Sunrise/Sunset prediction
- Man OverBoard (MOB)

#### SUPPLIED WITH

Adjustable mounting bracket, power and interfacing cables, 4 AA NiMH rechargeable batteries, protective pouch

#### ALSO CONSIDER

- Geonav 4 Gypsy



**MEGA DEAL OFFER!**

See website for details

ORDER CODE - ZRAYE33018

### RAYMARINE DSM25

#### HD Digital Sounder Module

Designed exclusively for the A65 chartplotter, this 50/200kHz, 500W digital sounder module features the same digital technology used on the top of the range DSM300.



#### KEY FEATURES

- Plug & Play
- Submersible to IPX7
- HD Digital technology
- Adaptive receiver technology precisely targets fish and bottom structure with amazing clarity

#### SUPPLIED WITH

Transducers must be specified

ORDER CODE - ZRAYE63070

### RAYMARINE DS500X

#### 5in Colour Digital Fishfinder

Compact but powerful dual frequency digital fishfinder with HD Digital technology.



#### KEY FEATURES

- 200/50kHz
- Max depth 600m
- Automatic parameter adjustment (220/second)
- Adaptive receiver technology precisely targets fish & bottom structure with amazing clarity

#### ALSO AVAILABLE

- DS600X - as DS500X, but with a larger 6in display

#### SUPPLIED WITH (ALL MODELS)

Depth & speed transom mount transducer

ORDER CODE DS500X - ZRAYE63057

ORDER CODE DS600X - ZRAYE63059

### RAYMARINE RAY54E

#### DSC VHF Radio



Submersible DSC VHF. The large LCD features a 4 line GPS display. 1 or 25 watt output, external speaker socket. Also available in white.

#### KEY FEATURES

- All channel scan, tri-watch
- DSC number directory
- Flush mountable



ORDER CODE - ZRAYE43025

### RAYMARINE RAY101E

#### Handheld VHF Radio

Supplied with NiMH batteries, but takes standard alkaline batteries as well in the same waterproof battery tray. All standard VHF functions including scan and dual watch.

#### KEY FEATURES

- High clarity backlit display
- Large easy to use backlit keypad
- Key lock function

#### SUPPLIED WITH

Charger, 6 x NiMH cells, mains adaptor, cigarette lighter adaptor, wrist strap and belt clip

ORDER CODE - ZRAYT43029

# Raymarine

## Instruments



### RAYMARINE ST60+

#### Instrument System

The world's best selling instrument system. Updated design complements the C Series, E Series and SmartPilot control heads. A full range of digital and analogue displays with large clear displays and backlit LCD and buttons. Integrates with Raymarine Autopilots, GPS, Radars and Chartplotters via SeaTalk. "Soft" power down feature.

#### KEY FEATURES

- Large 36.4mm (1.43in) digits on Speed & Depth
- Can be front, rear or flush mounted (kit reqd)
- Two line display on Tridata
- Full range of transducers available
- Remote control option
- Waterproof design

#### ALSO CONSIDER

- Navman 3100
- Simrad IS12
- Furuno FI30



### 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



ORDER CODE - ZRAYE22009-P

### 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
- Automatic switching of depth sensors when depth sounder module is detected, to avoid interference



ORDER CODE - ZRAYE22010-P

### 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 operation



ORDER CODE - ZRAYE22012-P

### 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
- Automatic switching of depth sensors when depth sounder module is detected, to avoid interference



ORDER CODE - ZRAYE22013-P

### 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

ORDER CODE - ZRAYE22075-P

### RAYMARINE ST60+ COMPASS

#### Compass System

#### KEY FEATURES

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



ORDER CODE - ZRAYE22014-P

### RAYMARINE ST60+ RUDDER

#### Rudder Display

#### KEY FEATURES

- Analogue rudder angle
- Requires input from SeaTalk pilot or rudder transducer



ORDER CODE - ZRAYA22008-P

\*Requires relevant data to be present on SeaTalk

### RAYMARINE ST40

#### Entry Level Instrument System

Elegant and simple to operate, with large digits and razor sharp LCD displays. Optional snap-on bezels, three levels of back lighting including push buttons and waterproof to USCG-CFR 46. SeaTalk compatible, all necessary transducers are supplied with the units.



SPEED ORDER CODE - ZRAYE22043

DEPTH ORDER CODE - ZRAYE22044

WIND ORDER CODE - ZRAYE22047

COMPASS ORDER CODE - ZRAYE22048

BIDATA ORDER CODE - ZRAYE22045

### RAYMARINE ST290

#### Premium Instrument System

Revolutionary system that combines big, bold, user-friendly displays with intelligent transducers and SeaTalk2 networking technology, combining autopilot, navigation, environmental and instrument data to create a comprehensive network with data rates 20 times faster than competing instrument systems.

### RAYMARINE ST290 GRAPHIC

#### Multifunction Dot-Matrix Display



#### KEY FEATURES

- Large 5.5in dot matrix LCD
- Maximum visibility from every angle
- Easy-to-read characters
- Intuitive icons and graphics
- Intelligent rotating favourites display
- Simple chapter and page control keys

ORDER CODE - ZRAYE22057

### RAYMARINE ST290 DATA

#### Multifunction Two Line Display



#### KEY FEATURES

- High contrast 5.5in two line display
- Ideal repeater solution
- Intelligent rotating favourites display
- Simple 'chapter and page' control keys

ORDER CODE - ZRAYE22056

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

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

# Raymarine Cockpit Autopilots

## RAYMARINE S1 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
- Innovative enclosed design
- SeaTalk and NMEA interface
- Backlit display and keypad
- 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

#### ALSO CONSIDER

- Simrad WP32

**ORDER CODE - ZRAYE12180**

#### CUSTOMER COMMENTS

"Since I retired we've sailed around the world, most of the time with our Raymarine Wheepilot in control and it's never let us down, even in the worst conditions."

- Mr J Plaitt, Devon

**NEW FOR  
2007**



#### Optional Extras

Add second station control to your ST1000, ST2000 and S1 Cockpit Pilots by adding the wireless SmartController.

**AVAILABLE FOR  
OVERNIGHT  
DESPATCH**

## RAYMARINE S1/S1GP 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.



#### KEY FEATURES

- S1 for sailboats up to 6,000kg
- S1 GP for sailboats up to 7,500kg
- Inbuilt SeaTalk and NMEA interface
- Displays autopilot and navigational information
- Weatherproof design with two stage pushrod seal
- Low power consumption
- Intelligent course holding software

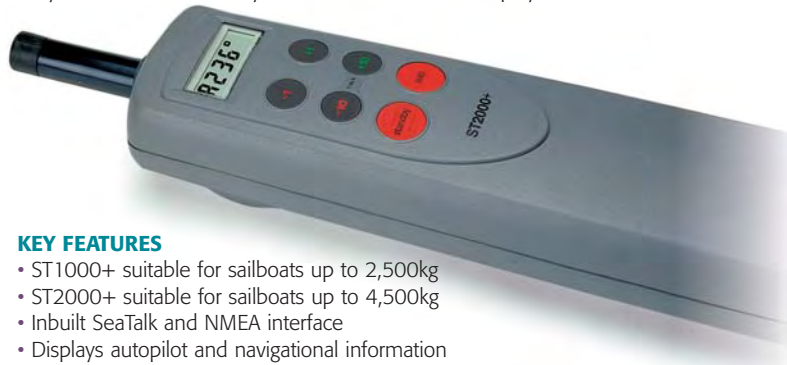
**ORDER CODE S1 - ZRAYE12190**  
**ORDER CODE S1 GP - ZRAYE12192**

**NEW FOR  
2007**

## 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
- Displays autopilot and navigational information
- Weatherproof design with two stage pushrod seal
- Low power consumption
- Intelligent course holding software

#### ALSO CONSIDER

- Simrad TP10, TP22, TP33

**ORDER CODE ST1000+ - ZRAYA12004**  
**ORDER CODE ST2000+ - ZRAYA12005**

#### Optional Extras

Add second station control to your ST1000, ST2000 and S1 Cockpit Pilots by adding the wireless S100 controller.



**SEEN IT  
FOR LESS?  
WE WILL NOT BE  
BEATEN ON PRICE!**

We accept most major credit and debit cards





# Raymarine

## Wireless Autopilots

### RAYMARINE S1000

#### Autopilot with Wireless Remote

The S1000 is an all-in-one-box autopilot system for powerboats with a SeaStar balanced hydraulic system. Complete with everything needed for easy installation, the S1000 is quick to fit and simple to use. No added complications from electronic compasses or rudder reference transducers - the S1000 doesn't need them. Control the S1000 with the S100 wireless remote - simply steer on to your desired heading, press AUTO to engage the pilot and off you go!



#### KEY FEATURES

- A simple "point and shoot" autopilot
- Designed for SeaStar hydraulic systems
- No electronic compass or rudder feedback unit needed
- GPS input required via NMEA
- Built-in fishing patterns including cloverleaf and zig-zag
- Steer straight at speeds up to 65mph
- Troll speeds as low as 1.3mph
- Can be linked to kicker motor

#### SUPPLIED WITH

Installation video, S100 wireless control unit, lanyard, belt clip, 2 x cradles, S1000 course computer, hydraulic pump, bleed kit

**ORDER CODE - ZRAYE12169**



### RAYMARINE SMARTCONTROLLER

#### Wireless Remote Control

Take full on-board control of your Raymarine SeaTalk autopilot with the wireless SmartController. Wireless operation means freedom to monitor vital information when you're on deck or out of sight of your instruments.

Lightweight and compact for easy handling, the SmartController is easy to use thanks to its intuitive interface. Uses two rechargeable NiMH batteries - average 2 weeks use from a single charge.

#### KEY FEATURES

- Full function autopilot controller
- SeaTalk instrument repeater
- Plug and play - easy installation
- Uses latest and most reliable IEEE 802.15.4 wireless technology
- Range up to 10m from base station
- 8 user-defined pages
- Backlit display and buttons
- Keylock security
- Warning signal when remote is out of range of base station, automatically drops autopilot to standby
- Add additional base stations for extended range
- Add handsets for additional users

#### SUPPLIED WITH

Base station, SeaTalk lead, 2 x mounting cradles, lanyard, belt clip and NiMH rechargeable batteries

**ORDER CODE - ZRAYE15023**



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



# Raymarine

## Inboard Autopilots

### RAYMARINE ST6002 SMARTPILOT

#### Inboard Autopilot System

Raymarine's Smartpilot range of autopilots offer more power and greater steering accuracy with their advanced AST and Autolearn software features. The ST6002 is an ideal choice when console space is limited, with its compact control head that can show up to 7 SeaTalk data pages.

#### SMARTPILOT KEY FEATURES

- Complete all in one autopilot options
- Linear, hydraulic and sterndrive options
- Suitable for sail and power applications
- SeaTalk & NMEA networking
- Choice of ST6002, ST7002 and ST8002 controls
- Redesigned heads to compliment C Series, E Series and ST60+
- SeaTalk & NMEA interface
- Multi station control options
- Display acts as SeaTalk instrument repeater
- Easy access to connections
- Gyro compass option
- Current limiting protection

#### SUPPLIED WITH

Display, course computer, fluxgate or gyro compass, feedback unit, drive. See the box on this page for package information and call us for more details

#### ALSO CONSIDER

- Furuno NavPilot
- Navman G-Pilot
- Simrad AP25 and AP26



### RAYMARINE ST7002 SMARTPILOT

#### Inboard Autopilot System

The S7002 Smartpilot takes all the features and performance of the ST6002 and adds a fully featured multi-function control unit with large, clear LCD display.

#### KEY FEATURES

- All the features of the ST6002
- Large display with analogue rudder angle indicator
- Inbuilt SeaTalk & NMEA interface
- Autopilot, navigation and instrument displays
- Multi station control options
- Remote control ST60/ST60+ instruments

#### SUPPLIED WITH

Display, course computer, fluxgate or gyro compass, feedback unit, drive. See the box on this page for package information and call us for more details



### RAYMARINE ST8002 SMARTPILOT

#### Inboard Autopilot System

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

#### KEY FEATURES

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

#### SUPPLIED WITH

Display, course computer, fluxgate or gyro compass, feedback unit, drive. See the box on this page for package information and call us for more details



#### Also consider...

#### Autopilots by -

- Furuno page 26
- Navman page 19
- Simrad page 27

#### CUSTOMER COMMENTS

"I've sailed in some pretty horrible conditions, and my Raymarine inboard pilot has never let me down."  
- D. Pitt, Hants



### Tech info

#### Selecting your Smartpilot

The Raymarine Smartpilots are designed to suit virtually any kind of boat that is afloat up to 35,000kg displacement. The flexible modular system allows you to build up an autopilot package of drive, electronics core pack and control unit to suit your unique requirements -

#### 1. Drive Selection

Raymarine offer a selection of drives to suit the size and steering type of your boat -

##### Linear Drives 12 & 24v (specify)

Type	Drive	Stroke	Displacement
1	Mechanical	12in	10,000kg
2S	Mechanical	12in	15,000kg
2L	Mechanical	16in	20,000kg
2	Hydraulic	10in	22,000kg
3	Hydraulic	12in	35,000kg

##### Reversing Pumps 12 & 24v (specify)

Type	Ram Capacity (Min-Max)
1	80-230cc
2	230-350cc
3	350-500cc

##### Rotary Drive 12 & 24v (specify)

Type	Displacement
1*	10,000kg
2	20,000kg

\* 12v only

#### 2. Core Pack Selection

The core pack is the electronics package for the autopilot. It includes the course computer, rudder feedback unit and fluxgate compass.

There are two core packs available, and these are specified depending on the drive unit type selected in stage 1 -

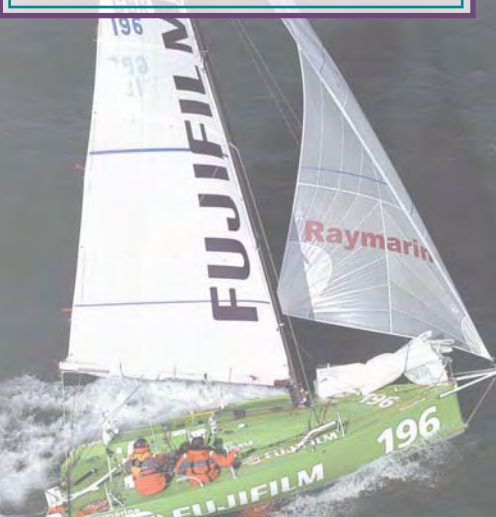
##### Core Packs

Type	Voltage	Drives	Gyro	SeaTalk Ports
S1	12v	Type1	No	1
S1G	12v	Type1	Yes	1
S2	12v	Type1	No	2
S2G	12v	Type1	Yes	2
S3	12/24v	Type1/2/3	No	2
S3G	12/24v	Type1/2/3	Yes	2

#### 3. Control Unit Selection

Choose the control unit for the autopilot system -

ST6002	Compact control unit
ST7002	Full function control unit
ST8002	Full function unit with Power Steer



We accept most major credit and debit cards



# Raymarine

## VHF Radios/Sat TV

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

### RAYMARINE RAY240E

#### DSC VHF Radio

Modular VHF radio system with DSC, ATIS support, and optional hailer/foghorn support. The cellphone style handset has a familiar button arrangement with a slide down covers that protects an alphanumeric keypad. The radio's Class D DSC capability enables you to transmit vital information including your boat's identification, position and time of distress using NMEA0183 or SeaTalk data from your GPS. Placing a DSC distress call is as easy as pushing the accessible distress button on the back of the waterproof handset. The Ray240E is also ATIS (Automatic Transmission Identification System) capable for use on European inland waterways.

The modular design of the Ray240E allows the transceiver to be mounted in an out of the way location, leaving just the waterproof handset and loudspeaker on show. Dual station and remote speaker support is also featured. Each handset provides full VHF and DSC functionality plus intercom facility for communication between stations. An optional hailer horn transforms the radio into a hailer foghorn combination with programmable auto fog alert.

#### KEY FEATURES

- Easy-to-read backlit display
- Pull down cover reveals full function alphanumeric keypad
- Programmable scan and tri-watch function
- Loud speaker with on/off switch and volume control
- Submersible IPX-7 handset
- European National Channel Support
- Optional second station control with intercom capability
- Optional fog horn/loudhailer



#### ALSO CONSIDER

- Simrad RS87



**ORDER CODE - ZRAYE42002**

### RAYMARINE 45STV & 60STV

#### Satellite TV Antenna System (Europe)

Satellite antenna system for DVB compatible digital satellite television receivers, featuring a stylish and compact dome with a fully automatic, marine stabilised antenna providing uninterrupted satellite television reception in almost any condition. It quickly identifies compatible DVB (Digital Video Broadcast) satellites, using a unique Wide Range Search (WRS) algorithm. Highly accurate satellite tracking at sea is achieved via the 45 STV's Dynamic Beam Tilting technology, ensuring a clear picture in the most challenging conditions.

#### KEY FEATURES

- Watch satellite TV on a television, monitor, G170 or G190 marine monitor or E Series display
- Engineered for the harshest marine environments
- Simplified cabling for easy installation
- Display E-Series feature video input for interfacing with satellite television receivers
- Dual LNB Design - watch the weather at the helm while others watch TV down below
- Supports multiple receivers
- Wide Range Search algorithm allows for fast identification and acquisition of satellites
- Dynamic Beam Tilting (DBT) Technology enables system to track signals in the most extreme weather and sea conditions
- Compact & lightweight - footprint of only 19.2in, 14kg
- Suitable for vessels of all sizes
- **NEW** 60cm 60STV for vessels of 50' and above offers greater signal range and improved reception

#### SUPPLIED WITH

45 STV Antenna, Antenna Control Unit. To complete the installation, 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



**ORDER CODE 45STV - ZRAYE93009**  
**ORDER CODE 60STV - ZRAYE93003**



### Find out more...

#### DVB Satellite TV Coverage

The Raymarine 45 STV Satellite

Television Antenna System can track a variety of DVB compatible and DSS (DirecTV) satellites. Your system contains a pre-programmed library of European satellites. There are also two open slots which can be programmed with user defined satellites.

To receive a satellite television service you will need to subscribe to the service from the relevant service provider. Please see each provider's web site for detailed information on coverage, satellite footprints, and subscription pricing.



Hotbird

[www.eutelsat.com](http://www.eutelsat.com)



Hotbird

[www.eutelsat.com](http://www.eutelsat.com)



Astra

[www.ses-astra.com](http://www.ses-astra.com)



Astra

[www.ses-astra.com](http://www.ses-astra.com)



Hispasat

[www.hispasat.com](http://www.hispasat.com)



Sirius

[www.nsb.se](http://www.nsb.se)



Thor

[www.telenor.com](http://www.telenor.com)



DirecTV

[www.directv.com](http://www.directv.com)



EchoStar

[www.dishnetwork.com](http://www.dishnetwork.com)



Bell Express Vu

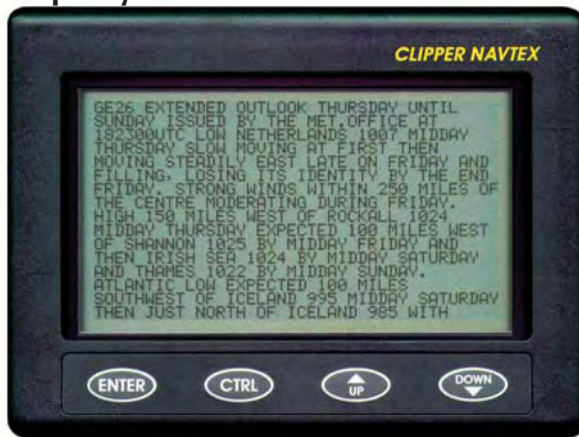
[www.expressvu.com](http://www.expressvu.com)

*Note - Reception in the US and Canada will require the North American version of the 45 STV.*

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

### NASA CLIPPER NAVTEX

#### Dual Frequency LCD Navtex Receiver



This dual frequency Navtex offers an ideal solution for those looking for an easy to fit, flush mount device. Ultra clear 16 line LCD screen with white backlighting.

#### KEY FEATURES

- Matches Clipper instruments
- Dual frequency (490 & 518kHz)
- Low power consumption (50mA)

#### SUPPLIED WITH

Compact stub antenna



#### CUSTOMER COMMENTS

"For the price, I can thoroughly recommend this Navtex as a great buy."

- N. West, Newton Ferrers

**ORDER CODE - ZNAS010.011**

### NASA AIS RADAR

#### AIS Receiver



Standalone AIS receiver/plotter specifically designed for the leisure boat market. The display shows AIS carrying vessels in a format normally associated with conventional radar. A trail of previous positions clearly shows the relative track of all the targets on the screen.

#### KEY FEATURES

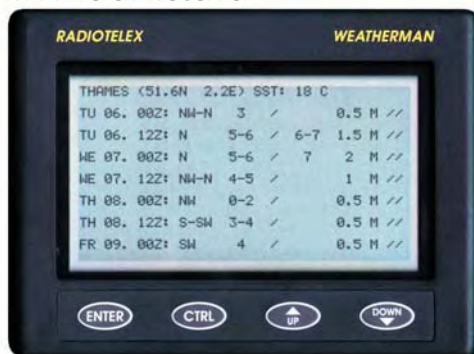
- 1, 2, 4, 8, 16 and 32nm ranges
- Display shows SOG, target vessel's name, MMSI and current Lat/Long
- White backlit LCD display
- Low power consumption



**ORDER CODE - ZNAS010.180**

### NASA WEATHERMAN

#### RTTY Telex Receiver



Compact Radioteletype weather forecast receiver. Forecasts are transmitted continuously on several frequencies simultaneously, but it can be set to record data from areas of interest only. 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

**ORDER CODE - ZNAS010.060**

### NASA HF3M

#### MF/HF Receiver



Covering 30kHz - 30MHz, the HF3M includes a weatherfax interface and software enabling you to download weather pictures onto your PC.

#### SUPPLIED WITH

Antenna, PC cable, weatherfax software, power supply

**ORDER CODE - ZNAS010.028**

### NASA CLIPPER

#### Instrument System

If you are on a budget, these low cost but well constructed 110mm instruments are well worth considering.



#### 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

#### SUPPLIED WITH

Transducer and cabling

**ORDER CODE LOG - ZNAS010.019**

**ORDER CODE DEPTH - ZNAS010.020**

**ORDER CODE WIND - ZNAS010.023**

**ORDER CODE DUET - ZNAS010.021**

**ORDER CODE COMPASS - ZNAS010.022**

**ORDER CODE GPS REPEATER - ZNAS010.024**

**ALSO AVAILABLE** ►

NASA Cruiser instruments



### GARMIN FORETREX 101/201

#### Wearable GPS

Hands-free GPS navigation for outdoor and marine users - at just 77 grams, they're lighter than most watches. The Foretrex 101 uses two AAA batteries and the Foretrex 201 features a rechargeable internal Lithium Ion battery, both offering 15hrs typical use.



#### KEY FEATURES

- Trip computer
- Accuracy <15m normal GPS mode, <3m WAAS
- Racing timers - configurable start sequence, alert tones and large-number digital readout
- 500 waypoints with graphic marks, 20 routes

#### SUPPLIED WITH

Wrist strap, Expandable strap, A/C desktop charger with pc interface cable (Foretrex 201 only)

**ORDER CODE 101 - ZGAR010-00364-00**

**ORDER CODE 201 - ZGAR010-00361-00**

### GARMIN eTrex

#### Handheld GPS

The eTrex takes the best features of a 12 parallel channel GPS and puts them into a 100x50mm (4 x 2in) package that weighs only 170g.



#### KEY FEATURES

- Waterproof
- 18 hrs use on 2 x AA batteries
- Up to 500 waypoints with graphic icons
- TracBack™
- Animated graphics
- Wide range of models to suit all applications

#### ALSO AVAILABLE

- **eTrex Summit** - includes an altimeter and electronic compass
- **eTrex Legend** - WAAS enabled, world city database, 1Mb internal memory, MapSource compatible

**ORDER CODE - ZGAR010-00190-00**

### GARMIN GPS72

#### Handheld GPS

One of the best entry-level handheld GPS on the market, this rugged waterproof unit is WAAS-enabled, has a large, 4-level grayscale screen and it floats!

#### KEY FEATURES

- 500 waypoints, 50 routes
- Large digit option
- Alarms for anchor drag, arrival, off-course, proximity waypoint and clock
- Trip computer with odometer, stopped time, moving average, overall average, total time, max speed and more
- Automatic track log - 10 saved tracks let you retrace your path in both directions
- Course and speed filtering
- Built-in celestial tables
- Available as marine bundle pack with marine mounting bracket, 12v cigarette lighter cable and carrying Case



**ORDER CODE - ZGAR010-00309-00**

### GARMIN GPS76

#### Handheld GPS

With a higher resolution display than the GPS72, the GPS76 is supplied preloaded with worldwide city information and nautical navigation aids.



#### KEY FEATURES

- TracBack™
- Trip computer
- 16 hrs use on 2 x AA batteries
- Approach, arrival, off-course, waypoint proximity, anchor drag, shallow and deep water alarms



#### SUPPLIED WITH

PC Cable, Wrist strap

**ORDER CODE - ZGAR010-00244-01**

### GARMIN GPSMap76

#### Handheld GPS

All the features of GPS76 with the addition of mapping functions - download charts from a Garmin MapSource CD-ROM.



#### KEY FEATURES

- 8Mb memory
- Includes detailed basemap
- Cities, major roads, rivers, lakes, plus worldwide city, navaid and European tide data



#### SUPPLIED WITH

PC Cable, Wrist strap

**ORDER CODE - ZGAR010-00249-01**

### GARMIN GPSMap76S

#### Handheld GPS

All the features of the GPSMap76 plus a barometric altimeter and an electronic compass.



#### SUPPLIED WITH

PC Cable, Wrist strap



**ORDER CODE - ZGAR010-00271-01**

### GARMIN GPSMap76Cx

#### Colour Handheld GPS

All the features of the 70 series with a 256 colour display, 115Mb of memory, an Atlantic Autoroute basemap and a Marine Point database. Fast USB connectivity makes loading charts and maps quick and easy.



#### KEY FEATURES

- Up to 30 hours battery life using 2 x AA batteries
- 1000 user waypoints, 50 routes
- 10,000 point automatic track log, 20 saved tracks
- Compatible with most MapSource products including BlueChart, City Select etc

#### SUPPLIED WITH

PC Cable, Wrist strap

**ORDER CODE - ZGAR010-00468-01**

#### ALSO AVAILABLE

- **GPSMap76CSx** - Adds a barometric altimeter and electronic compass.

**ZGAR010-00469-01**

### GARMIN GPSMap60Cx

#### Handheld GPS Chartplotter

Rugged handheld WAAS GPS chartplotter with colour TFT sunlight-viewable display and inbuilt International basemap with auto-routing capabilities.

Compatible with BlueChart and City Select MapSource\* products.

\* Not recommended for use with Metroguide

#### KEY FEATURES

- 500 waypoints, 20 routes, 10,000 point tracklog, 20 saved tracks
- Large numbers option
- Serial and USB interfaces
- Multiple position formats
- Anchor, arrival, off-course, waypoint and clock alarms
- Dual position display mode
- 56Mb internal memory
- Battery life: 30 hrs (typical use)
- Trip computer and stop watch
- Built-in celestial tables

#### SUPPLIED WITH

PC/USB cable, Lanyard, belt clip

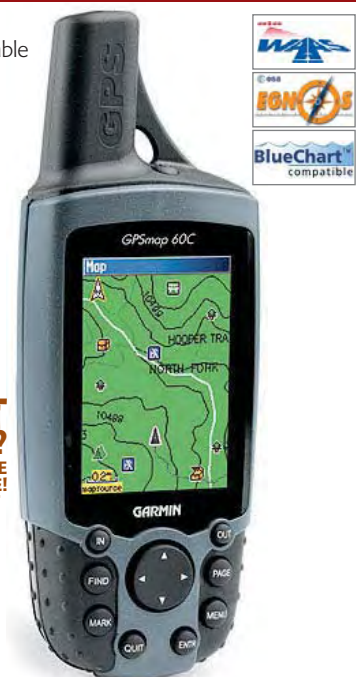
#### ALSO AVAILABLE

- **GPSMap60CSx** includes electronic compass and a barometric altitude sensor
- **GPSMap60** with mono display

**ORDER CODE GPSMAP60CX - ZGAR010-00421-01**

**ORDER CODE GPSMAP60CSX - ZGAR010-00422-01**

**ORDER CODE GPSMAP60 - ZGAR010-00322-11**



### GARMIN GPSMap550

#### 5in Colour Chartplotter

For mariners with a keen eye for value, this versatile chartplotter delivers a lot of navigation for the money. It features a bright 5in QVGA colour display, satellite-enhanced worldwide basemap imagery, and an SD card slot that makes it easy to add features with the optional BlueChart® g2 Vision card. Like all Garmin plotters, these use WAAS/EGNOS-enabled GPS receivers for extreme high accuracy (typically within 3 metres).

The worldwide basemap can be enhanced with the optional BlueChart g2 Vision card, which provides high-resolution aerial reference photos for help navigating tricky harbours and channels or locating places such as marinas, fuel barges or restaurants. The g2 Vision plugin data card also allows the GPSMap 550 to graphically depict a true 3D "mariner's eye" topside view or "fish eye" underwater navigation perspective.

**NEW FOR**  
**2007**

#### KEY FEATURES

- Worldwide basemap.
- See detail-rich imagery like never before
- 5in QVGA colour display
- CANet compatible, satellite-enhanced worldwide basemap
- Compatible with optional BlueChart g2 Vision card
- Simple user interface for easy operation
- Simplify navigation with Auto Guidance

**HOT**  
**PRODUCT!!**

#### SUPPLIED WITH

GPS antenna, unit cover, tilt/swivel mount, cables



**ORDER CODE - ZGAR010-00616-00**

### GARMIN GPSMap450

#### 4.5in Colour Chartplotter

This sleek chartplotter offers big capability in a small package. The GPSMap 450 features an ultra-bright 4in colour QVGA display and an inbuilt satellite-enhanced worldwide basemap.

See detail-rich imagery like never before - the worldwide basemap can be enhanced with the optional BlueChart g2 Vision card, which provides high resolution aerial reference photos for help navigating tricky harbours and channels or locating places such as marinas, fuel barges or restaurants. The g2 Vision plugin data card also allows the GPSMap 450 to graphically depict a true 3D "mariner's eye" topside view or "fish eye" underwater navigation perspective.

**NEW FOR**  
**2007**

#### KEY FEATURES

- Worldwide basemap.
- See detail-rich imagery like never before
- 5in QVGA colour display
- CANet compatible, satellite-enhanced worldwide basemap
- Compatible with optional BlueChart g2 Vision card
- Simple user interface for easy operation
- Simplify navigation with Auto Guidance

**CONTACT US -**  
**SEE BACK PAGE**

#### SUPPLIED WITH

GPS antenna, unit cover, tilt/swivel mount, cables



**ORDER CODE - ZGAR010-00515-52**



### Find out more...

#### What is GPS?

The Global Positioning System (GPS), is the only fully-functional satellite navigation system. More than two dozen GPS satellites orbit the Earth, transmitting radio signals which allow GPS receivers to determine their location, speed and direction. Since the first experimental satellite was launched in 1978, GPS has become indispensable for navigation around the world.



Developed by the United States Department of Defense, it is officially named NAVSTAR GPS (Navigation Signal Timing and Ranging Global Positioning System). Although the cost of maintaining the system is approximately US\$400M per year, including the replacement of aging satellites, GPS is free for civilian use.

In late 2005, the first in a series of next-generation GPS satellites was added to the constellation, offering several new capabilities, including a second civilian GPS signal called L2C for enhanced accuracy and reliability. In the coming years, additional next-generation satellites will increase coverage of L2C and add a third and fourth civilian signal to the system.

A GPS receiver calculates its position by measuring the distance between itself and three or more GPS satellites. Measuring the time delay between transmission and reception of the GPS radio signal gives the distance to each satellite, since the signal travels at a known speed. The radio signal also carries information about the satellite location so the receiver can compute the exact position of the satellite. After determining position and distance of at least three satellites, the receiver computes its location.

The GPS design calls for 24 satellites to be distributed equally among six circular orbital planes. Orbiting at an altitude of 10,988 nautical miles, each satellite passes over the same location on Earth twice a day. The orbits are arranged so that least four satellites are always within line of sight from almost any place on Earth. As of August 2006 the GPS system has 29 active satellites. The extra satellites improve GPS accuracy by offering more points from which to measure. These extra satellites also provide redundancy should a satellite fail.



### Also consider...

#### Chartplotters by -

- Lowrance page 30
- Navman page 21
- Raymarine page 3-6
- Simrad page 28

**We accept most major credit and debit cards**



### GARMIN GPSMap450S

#### 4in Colour Chartplotter/Fishfinder

Fully integrated chartplotter and sonar with all the features of the GPSMap 450 chartplotter. The 450s 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.

**NEW FOR 2007**



**SUPPLIED WITH**

GPS antenna, unit cover, tilt/swivel mount, cables, transducers sold separately

**ORDER CODE - ZGAR010-00516-5A**

### GARMIN GPSMap550S

#### 5in Colour Chartplotter/Fishfinder

Fully integrated chartplotter and sonar with all the features of the GPSMap 550 chartplotter. The 550s 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.

**NEW FOR 2007**



**SUPPLIED WITH**

Internal or external GPS, power/data cable, tilt/swivel mount bracket, transducers sold separately

**ORDER CODE - ZGAR010-00617-00**

### GARMIN GPSMap3006C

#### 6.4in Colour Combination Display

Colour 6.4in combination display offering GPS, weather, sonar, radar and other data. The GPSMap 3006C features a sunlight viewable 256-colour display. The entire system is plug-and-play - the displays automatically detect any peripherals when connected. You can connect a GPS antenna and one remote sensor directly to the display, or with the addition of the GMS10 Network Port Expander, users can connect multiple displays and sensors to the same network.



**ASK US ABOUT INSTALLATION**



**KEY FEATURES**

- WAAS-enabled, 12 parallel channel GPS sensor
- Dual Bluechart g2 card slots
- 10,000 point automatic track log, 15 saved tracks, 700 points/saved track
- 4000 waypoints, 50 routes, 300 waypoints per route
- 2 composite video inputs for on-board cameras, 1 VGA PC monitor video output, 3 NMEA0183 ports
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Built-in celestial tables for sun and moon calculations
- Inbuilt world basemap showing cities, interstates, coastline detail and tides
- Add radar with optional GMR series digital radar antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD21 analogue or GSD22 digital remote sounder

**SUPPLIED WITH**

External 12 channel GPS antenna, power/data cable, mounting bracket

**ORDER CODE - ZGAR010-00348-00**

### GARMIN GPSMap3010C

#### 10in Colour Combination Display

Colour 10.4in combination display offering GPS, weather, sonar, radar and other data. The GPSMap 3010C features a sunlight viewable 256-colour display. The entire system is plug-and-play - the displays automatically detect any peripherals when connected. You can connect a GPS antenna and one remote sensor directly to the display, or with the addition of the GMS10 Network Port Expander, users can connect multiple displays and sensors to the same network.



**KEY FEATURES**

- WAAS-enabled, 12 parallel channel GPS sensor
- Dual Bluechart g2 card slots
- 10,000 point automatic track log, 15 saved tracks, 700 points/saved track
- 4000 waypoints, 50 routes, 300 waypoints per route
- 2 composite video inputs for on-board cameras, 1 VGA PC monitor video output, 3 NMEA0183 ports
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock and battery alarms
- Built-in celestial tables for sun and moon calculations
- Inbuilt world basemap showing cities, interstates, coastline detail and tides
- Add radar with optional GMR series digital radar antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD21 analogue or GSD22 digital remote sounder

**SUPPLIED WITH**

External 12 channel GPS antenna, power/data cable, mounting bracket

**ORDER CODE - ZGAR010-00350-00**

### GARMIN GPSMap3005C

#### 5in Colour Combination Display

If you want to enjoy the benefits of the Garmin Marine Network but are limited on space or budget, the new GPSMap3005C is the perfect solution, offering all the features of the larger 3006C and 3010C (without the VGA output and video input options), featuring a 5in sunlight viewable display.



#### KEY FEATURES

- Bluechart g2 compatible
- Garmin Marine Network compatible
- Inbuilt world basemap
- Add radar with optional GMR sensors
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD21 analogue or GSD22 digital remote sounder

#### SUPPLIED WITH

GPS 17 WAAS-enabled sensor, A/V cable, power/data cable, mounting bracket, unit cover

**ORDER CODE - ZGAR010-00402-00**

### Tech info

#### Garmin GMR Digital Radar Antennas



**NEW FOR 2007**

Garmin's digital radar antennas are suitable for the 3000 and 4000 series combi displays. All processing takes place in the antenna itself, allowing any combi display on the network can control the radar. Digital processing also allows for more precise recognition, enhancement, and filtering of radar echoes making the finished image easier to read and interpret.

To aid in collision avoidance, the GMR series also offers MARPA capability, which allows you to track the bearing, course, speed and predicted closest approach of up to 10 targets. (MARPA functionality requires heading sensor input).

Power (kW)	4kW	4kW	4kW	4kW
Type	Radome	Radome	Open	Open
Size (in)	18	24	48	72
Beam Width	5.2°	3.6°	1.8°	1.1°
Range (nm)	24	36	72	72
Part No.	GMR18	GMR41	GMR404	GMR406

### GARMIN GPSMap4012

#### 12.1in Colour Combination Display

The power of networking meets the brilliance of great design in this colour combi display, which serves as your all-in-one nervecentre for the Garmin Marine Network. With a 12.1in 1024x768 pixel XGA "big screen" display, this unit combines video-quality resolution and luminous colour with the latest in sensor and data options.

See detail-rich imagery like never before - the 4012's worldwide satellite imagery enhances the standard vector basemap format. This unit also offers the optional BlueChart g2 Vision card, which provides high-resolution aerial reference photos for help navigating tricky harbours and channels or locating places such as marinas, fuel barges or restaurants. The g2 Vision plugin data card also allows the GPSMap 4012 to graphically depict a true 3D "mariner's eye" topside view or "fish eye" underwater navigation perspective.



#### KEY FEATURES

- WAAS-enabled, 12 parallel channel GPS sensor
- Includes a worldwide satellite basemap
- Simple user interface for easy operation
- Simplify navigation with Auto Guidance which searches all the chart features to suggest the best known charted route for navigation
- Dual Bluechart g2 card slots
- 10,000 point automatic track log, 15 saved tracks, 700 points/saved track
- 4000 user waypoints with name and graphic symbol, 50 reversible routes, 300 waypoints per route
- 3 network ports, 2 composite video inputs for on-board cameras, 1 VGA PC monitor video output, 4 NMEA0183/NMEA2000 ports
- Anchor drag, arrival, off-course, shallow water, deep water, proximity waypoint, clock, and battery alarms
- Built-in celestial tables for sun and moon calculations
- Add radar with optional GMR series digital radar antennas
- Radar/chart overlay and split screen modes
- MARPA target tracking
- Add sonar with optional GSD21 analogue or GSD22 digital remote sounder

#### SUPPLIED WITH

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

**ORDER CODE - ZGAR010-00592-00**

### GARMIN GPSMap4008

#### 8.4in Colour Combination Display

If space onboard is limited or you're on a tight budget, the 8.4in GPSMap 4008 offers all the great features of the GPSMap 4012 in a smaller package.

#### KEY FEATURES

- All the features of the GPSMap 4012
- 8.4in 640x480 pixel VGA display

**NEW FOR 2007**

#### SUPPLIED WITH

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



**ORDER CODE - ZGAR010-00591-00**



### GARMIN Fishfinder90

#### 4in Mono Fishfinder

Compact dual beam fishfinder that combines ease of use with Garmin's exclusive fishfinder technology. The 45° beam angle gives a greater field of view.



#### KEY FEATURES

- 80/200kHz, max depth 200m (600ft)
- 100 watts RMS
- See-Thru function separates fish from thermoclines
- Alarms for fish size and shallow water
- Fish ID with optional fish depth numbers

#### SUPPLIED WITH

80/200kHz transom transducer, quick release mount

**ORDER CODE - ZGAR010-00459-00**

### GARMIN Fishfinder140

#### 4.75in Mono Fishfinder

If you like the features of the Fishfinder90 but want a larger, higher resolution screen then the Fishfinder140 is the answer. With all the features of the Fishfinder 90, the Fishfinder140 adds a 8.4 x 8.4cm (4.75in diagonal) 4-level greyscale display for greater detail. The keypad layout is simple and intuitive and the unit is easy to operate.



#### KEY FEATURES

- 80/200kHz, max depth 200m (600ft)
- 100 watts RMS
- See-Thru function separates fish from thermoclines
- Alarms for fish size and shallow water
- Fish ID with optional fish depth numbers

#### SUPPLIED WITH

80/200kHz transom transducer, quick release mount

**ORDER CODE - ZGAR010-00460-00**

### GARMIN Fishfinder160C

#### 4.75in Colour Fishfinder

The 160C is a dual beam fishfinder with a superb sunlight-viewable colour display. With all the features of the Fishfinder140, the 160C has a higher power output (150w RMS) giving a maximum depth of up to 300m (900ft).



#### KEY FEATURES

- 80/200kHz, max depth 300m (900ft)
- 150 watts RMS
- See-Thru function separates fish from thermoclines
- Alarms for fish size and shallow water
- Fish ID with optional fish depth numbers

#### SUPPLIED WITH

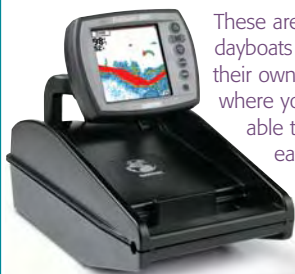
80/200kHz transom transducer, quick release mount

**ORDER CODE - ZGAR010-00403-00**

### A closer look...

#### Portable Units

The Fishfinder90, 140 and 160C are also available as portable units with a battery pack and suction mount transducer.



These are ideal for small dayboats that don't have their own power supply, where you want to be able to move the it easily from boat to boat or if you want to be able to take it home with you at the end of the day.

### GARMIN GSD21/GSD22

#### Remote Sounder Module



Turn your 400, 500, 3000 and 4000 series unit into a fully featured chartsounder with the GSD21 analogue and GSD22 digital black box modules. A range of transducers are available - call us for details.

#### KEY FEATURES

- 500W RMS (GSD21) max depth 450m
- 2kW RMS (GSD22) max depth 1500m
- Auto-ranging
- 2X and 4X auto and manual zoom
- Optional fish symbols
- See-Thru technology - separates fish from thermoclines and structure

#### SUPPLIED WITH

Transducers are not supplied

**ORDER CODE GSD21 - ZGAR010-00502-00**

**ORDER CODE GSD22 - ZGAR010-00397-00**

### GARMIN Fishfinder400C

#### 4in Colour Fishfinder

The Fishfinder 400C combines high performance with a simple interface that makes it easy to locate fish in both freshwater and saltwater. Available with a choice of dual beam or dual frequency transducers.



#### KEY FEATURES

- 400 watt (RMS) dual beam, max depth 300m
- 500 watt (RMS) dual frequency, max depth 500m
- CANet compatible - sonar data to be shared with compatible Garmin combi displays
- Ultra-bright 4in QVGA colour display
- UltraScroll™ screen updates at live-action speeds

#### SUPPLIED WITH

Swivel mounting bracket, power/data cable, dual beam or dual frequency transducer, protective cover

**ORDER CODE DISP ONLY - ZGAR010-00510-03**

**ORDER CODE DUAL BEAM - ZGAR010-00510-04**

**ORDER CODE DUAL FREQ - ZGAR010-00510-05**

### GARMIN Fishfinder340C

#### 5in Colour Fishfinder

Fantastic colour dual beam, dual frequency fishfinder with all the features of the smaller units, the 340C also offers enhanced software features such as drift alarm, timers and temperature log.



#### KEY FEATURES

- 80/200kHz, 45°/20° beam
- 400 watts RMS (dual beam),
- 500 watts RMS (dual frequency)
- Round flasher
- A-scope

#### SUPPLIED WITH

80/200kHz transom transducer, quick release mount

**ORDER CODE - ZGAR010-00505-02**

### GARMIN BLUECHARTS g2 VISION

#### Electronic Cartography

BlueChart g2 Vision offers the high detail charting of BlueChart g2 plus high-resolution satellite imagery, above and below water 3-D perspective, auto guidance technology, aerial photographs for real world reference, and coastal roads with points of interest.

All the new Garmin plotters feature basic worldwide satellite imagery for a realistic "view from space" depiction. With optional g2 Vision cards, these images are upgraded to super high-detail aerial photomapping. It's the most realistic chart display you've ever seen on a graphical chartplotter. And you can "navigate on the picture" with a clear dynamic presentation of your boat's current position.

#### KEY FEATURES

- High-resolution satellite imagery overlaid on the chart
- Aerial reference photography
- Mariner's Eye view - a 3D perspective of chart information for a quick, reliable and easy position fix
- Fish Eye view - 3D perspective below the water line for displaying bottom contours based on bathymetric charting data
- Auto guidance technology will search the attributes of all relevant charts to suggest the best course for navigation
- Fishing charts, tides, currents, marine services, coastal roads and points of interest

**NEW FOR 2007**

#### COVERAGE g2 & g2 VISION LARGE



### GARMIN BLUECHART g2

#### Electronic Cartography



Shaded map areas



3D chart representation



Port plan photography



BlueChart g2 cartography features smoother layering and better integration of chart graphics for easy panning, scrolling and zooming. The richer colours and shading improves visibility and makes the information easier to interpret.

Detailed land features, coastal roadways, marine services and points of interest. Full-colour aerial photos of ports, marinas, bridges, and navigational landmarks are also included on many data cards. It offers a choice of normal 2D or 3D chart representation, making orientation easier.

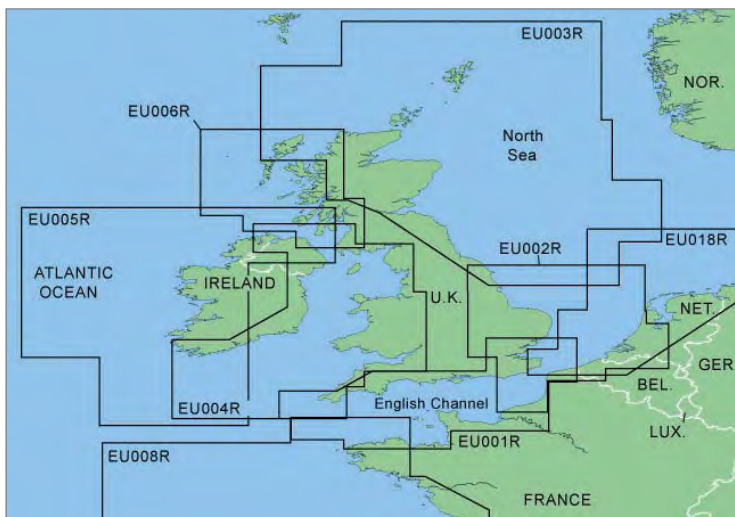
Call us or visit our website for details of compatibility, coverage and pricing.

#### Order Code Description

EU704L	FRANCE: ENGLISH CHANNEL COAST FROM FRENCH-BELGIAN BORDER TO BREST, AND RAMSGATE TO LITTLEHAMPTON. FRENCH ATLANTIC COAST BAY OF BISCAY TO SAN SEBASTIAN, FRENCH MEDITERRANEAN COAST FROM ISLAS MEDAS, SPAIN TO THE ALASSIO, ITALY, CORSICA AND THE N. TIP OF SARDINIA.
EU705L	HAMBURG TO BREST: NORTH SEA COASTS OF GERMANY, BELGIUM, AND THE NETHERLANDS, FRENCH ATLANTIC COAST. ENGLISH CHANNEL BRITAIN FROM LOWESTOFT TO THE SCILLY ISLANDS, INCLUDING LONDON, DOVER, THE SOLENT AND THE ISLE OF WIGHT.
EU706L	UK & IRELAND: DETAILED COVERAGE OF THE BRITISH ISLES IN THEIR ENTIRETY, INCLUDING THE THAMES ESTUARY, CALEDONIAN CANAL, OUTER HEBRIDES, SHETLAND AND ORKNEY ISLANDS, ISLE OF WIGHT, ISLE OF MAN, AND THE IRISH SEA. COVERAGE ACROSS THE ENGLISH CHANNEL TO CHERBOURG, FR., INCLUDING THE CHANNEL ISLANDS.

### GARMIN BLUECHART REGULAR

#### UK & Ireland



#### Order Code Description

EU001R	BRITISH COAST: FELIXSTOWE TO ISLES OF SCILLY. RIVER THAMES FROM TWICKENHAM TO THE NORTH SEA. DUNKERQUE TO L'ABER WRAC'H, CHANNEL ISLANDS
EU002R	BRITISH COAST: FROM SCARBOROUGH HARBOUR TO NEWHAVEN, CONTINENTAL COAST: FROM AMSTERDAM TO FECAMP
EU003R	GREAT BRITAIN, NORTHEAST COAST: ISLE OF LEWIS, SCOTLAND TO BRIDLINGTON HBR, ENGLAND, ALSO THE CALEDONIAN CANAL, LOCH LINNHE AND LOCH NESS.
EU004R	IRISH SEA: PORT ELLEN ON THE ISLE OF ISLAY TO FALMOUTH. SHEEP HAVEN TO CAHERCIVEEN, REPUBLIC OF IRELAND.
EU005R	IRELAND, WEST COAST: DETAILED COVERAGE CORK HARBOUR TO BELFAST. GENERAL COVERAGE OF EAST COAST. SCOTTISH COAST FROM ISLE OF COLONSAY TO CAMPBELTOWN HBR.
EU006R	SCOTLAND, WEST COAST: ISLE OF LEWIS AND LOCH BERVIE TO CAMPBELTOWN HBR AND GIRVAN. IRISH COAST: GENERAL COVERAGE FROM SHEEP HAVEN TO CARNLOUGH HBR.
EU008R	BAY OF BISCAY: BINIC, FRANCE TO CABO FINISTERRE, SPAIN
EU018R	THE NETHERLANDS AND EUROPE: SPIEKEROOG, GERMANY TO CALAIS, FRANCE, INC THE NETHERLANDS AND BELGIUM COAST GT BRITAIN WHITSTABLE TO FOLKESTONE, INC GT YARMOUTH.

We accept most major credit and debit cards



### NAVMAN 8120

#### 12in Colour Combi Display

Superb 12in colour multifunction display that integrates GPS, chartplotting, sonar, fuel management and video into one sleek, low profile unit. The daylight view SVGA colour screen can display data in full screen or up to four split screen panes, ensuring the information you need is at hand at all times.

#### KEY FEATURES

- Now with High Definition Digital Radar
- 12.1in SVGA 800x600 pixel daylight view display
- Waterproof to IPX7
- Inbuilt 32Mb world map
- Dual C-Map MAX chart card slots
- C-Map MAX enhanced chart data
- 3000 waypoints, 25 routes, 50 wpts/route
- Dual frequency 50/200kHz echosounder
- Inbuilt 1kW echosounder transceiver
- Automatically adjusts power output to match transducer fitted
- Max depth 1000m
- Engine performance data
- Petrol and Diesel fuel management
- SmartCraft management for Mercury engines
- RCA video input - connect deck or engine room monitoring cameras, DVDs, camcorders etc and view on the display (separate audio output required)
- VHF DSC interface - display call details on screen
- Fish forecast / Weather Station display (with VHF 7200 connected)
- "Track-Your-Buddy" on-chart display integration with VHF 7200
- Flush or bracket mount

#### OPTIONAL ACCESSORIES

Transducers, fuel management kits, SmartCraft gateways and other peripherals must be ordered separately



ORDER CODE - ZPLA53878

### NAVMAN 8084

#### 8.4in Colour Combi Display

The 8084 brings everything the 8120 does into a compact unit, with a full SVGA 8.4in 800 x 600 pixel colour display. Navman Digital Radar combined with C-Map cartography provides a comprehensive array of navigational aids, including chart overlay.



#### KEY FEATURES

- All the features of the Navman 8120
- Clear, vivid daylight-view SVGA 8.4in 800x600 pixel display

#### OPTIONAL ACCESSORIES

Transducers, fuel management kits, SmartCraft gateways and other peripherals must be ordered separately

ORDER CODE - ZPLA54479

### NAVMAN G-PILOT 3380

#### Colour Inboard Autopilot System

Navman take their acclaimed G-Pilot system to the next level with this innovative new autopilot system with a high resolution colour daylight view TFT display and rotary control dial.

#### KEY FEATURES

- Port and starboard LED knob surround flash to show course adjustments at a glance, even at night
- Unique on-screen animations of vessel's intended actions and progress
- One button dodge and jog keys
- Compass mode display with rudder angle indicator
- Pilot mode display with configurable data fields to display pilot information or nav data via NavBus
- Fuel management display
- SmartCraft display
- Compatible with existing G-Pilot 3100 systems - upgrade your existing system or add a 3380 control head as a second station

#### CORE PACK SUPPLIED WITH

Course computer, fluxgate compass, rate gyro compass, rudder feedback unit. Drives must be specified separately



ORDER CODE - ZPLA53182

### NAVMAN G-PILOT 3100

#### Inboard Autopilot System

Entry level G-Pilot provides total reliability and performance whether you are coastal cruising or crossing an ocean. Supplied as standard with a rate gyro compass for superior course holding.

#### KEY FEATURES

- Suitable for power and sail applications
- Multiple station option
- Preset dodge & auto tack with audible countdown timer
- Easy to use interface with clear instructions displayed on screen
- Preset the turn-rate limit (degrees/sec) to avoid sharp turning
- Steer to compass (true or magnetic), GPS course, waypoint or wind angle

#### CORE PACK SUPPLIED WITH

Control head, course computer, fluxgate compass, rate gyro compass, rudder feedback unit. Drives must be specified separately



ORDER CODE - ZPLA49500

### NAVMAN DIGITAL RADAR

#### 2kW, 4kW & 6kW Radar Antennas

Navman's new High Definition Digital Radar offers exceptional detection of small or distant targets, using advanced digital signal processing.



#### KEY FEATURES

- Digital Sensitivity Time Control (STC)
- Sensitivity settings tailored for specific conditions
- 10-target MARPA\*
- Requires appropriate 2kW/4kW/6kW processor box (available mid-2007 with simple software upgrade.)

### Tech info

#### G-Pilot Drive Options

The G-Pilot's range of drives suit most mechanical and hydraulic steering systems -

Hydraulic Reversing Pump		
Part No.	Flow Rate	Ram Capacity
176891	1 Litre/min	80cc to 250cc
176892	1.5 Litre/min	150cc to 400cc
176893	2 Litre/min	350cc to 500cc

Constant Running Pump		
Part No.	Flow Rate	Ram Capacity
176889	2.5 Litre/min	250cc to 500cc
176890	4.5 Litre/min	500cc to 1200cc

Linear Drives		
Part No.	Max Disp	Stroke
186208	9000kg	200mm
176884	11350kg	200mm
176885	20450kg	250mm
176886	34000kg	300mm

Please call to discuss drive selection.

### NAVMAN VHF 7100 & VHF 7110

#### Fixed DSC VHF

The popular VHF 7100 and VHF 7110 radios feature a large backlit display and are easy to operate. The dual station VHF 7110 also includes a full function second station handset, ideal for use in the cockpit or on the flybridge, anywhere that a second station is required. The second station gives you complete control over all the VHF functions and also enables you to make intercom calls between the handset and the main unit.



#### KEY FEATURES

- Fistic with channel, power and priority channel buttons
- Fully function second station handset
- Super large, clear FSTN display with amber backlighting on both units
- Instant access to up to 3 of your favorite channels with easy user programming
- Select from several scanning modes such as All-Scan and Favourite Channel scan modes
- Automatic GPS boat position and time when connected to a GPS receiver
- Local/Distant feature eliminates unwanted interference in high traffic areas
- Call logs with instant call back capability

#### SUPPLIED WITH

Fistic, second station fistic (7110 only), flush and bracket mounts, dust cover

**ORDER CODE VHF 7100 - ZPLA49524**  
**ORDER CODE VHF 7110 - ZPLA53500**

**HOT PRODUCT!!**

### NAVMAN VHF 7200

#### Fixed DSC VHF

The VHF 7200 has all the features of the VHF 7100 but with a larger display that can also display barometric pressure and fishing conditions. The Barometric Weather Forecasting feature monitors barometric pressure with digital graphing technology so you can see the current reading and trends to assist in determining rapid changes in air pressure. Icons show predicted weather conditions.

More unique features are the "Track-Your-Buddy" and position polling options. Connect your GPS to the VHF and your boat position can be transmitted to other vessels with compatible radios. The other vessels' positions are also transmitted to you - connect the VHF 7200 to a Trackfish6000 series chartsounder and it will plot up to three "buddy" locations on the chart - very useful when sailing in company and also an excellent safety feature when visibility drops.



#### KEY FEATURES

- Full function fistic with alphanumeric keypad
- Inbuilt Barometer / Temp sensors and 5-level icon weather forecasting display
- Favourable fishing conditions indicator
- Security lockout option
- Channel naming function
- MMSI, Group and ATIS directories

#### SUPPLIED WITH

Fistic, flush and bracket mounts, dust cover

**SEEN IT FOR LESS?**  
WE WILL NOT BE BEATEN ON PRICE!

**ORDER CODE - ZPLA49523**

### NAVMAN 3100 SERIES

#### Sail Instruments

Featuring giant wide angle displays, NMEA compatibility, the advanced NavBus™ system, complimented by the Tracker and Trackfish chartplotters, which allows complete freedom to build the system you want using any combination of displays with only one set of transducers.

#### KEY FEATURES

- Giant wide angle displays (up to 38mm digits)
- Fast NavBus™ data system
- NMEA0183 compatible
- Backlit display & keypads (4 levels)
- Anti-theft mounting
- Compliments the rest of the Navman range

### NAVMAN MULTI3100

#### Speed/Depth System



#### KEY FEATURES

- Combination speed log and depth sounder
- Two line display
- Speed 0-50kts
- Depth 0.9-120m

**ORDER CODE - ZPLA40630**

### NAVMAN SPEED3100

#### Speed System



#### KEY FEATURES

- Speed 0-50kts
- Trend indicator
- Average speed
- Max speed
- Log and trip
- Elapsed time
- Countdown timer
- Water temperature

**ORDER CODE - ZPLA40630**

### NAVMAN DEPTH3100

#### Depth System



#### KEY FEATURES

- Keel offset
- 3 damping levels
- Depth 0.9-120m
- Trend indicator
- Deep, Shallow & Anchor watch alarms

**ORDER CODE - ZPLA40626**

### NAVMAN WIND3150

#### Wind System



#### KEY FEATURES

- Apparent wind angle
- Apparent wind speed
- Wind speed alarm
- True wind with log input

**ORDER CODE - ZPLA46601**

### NAVMAN WIND3100

#### Wind System



#### KEY FEATURES

- Digital display with "analogue" readout
- Apparent wind angle
- Apparent wind speed
- Wind speed alarm
- True wind with log input

**ORDER CODE - ZPLA40638**

**We accept most major credit and debit cards**



### A closer look...

#### What is SmartCraft™?

Navman and Mercury have teamed up to offer complete electronic integration with single and dual engine boats.



SmartCraft offers real time engine related data and other critical information on your Navman instrument. Engine data forwarded to the display provides you with vital navigation information and engine control. It also features audible alarms and adjusts the throttle if necessary.

Available on Mercury/Mariner Optimax and Verado outboards, 4-stroke EFI Mercury engines and Mercruiser/Cummins inboards.

#### KEY FEATURES

- Realtime boat diagnostics from over 40 sensors
- RPM, engine temp, oil level, temp and pressure
- Fuel flow, fuel remaining and fuel consumption
- Digital engine tachometer input
- Water, waste, fuel and oil levels
- Trim angle and steering angle
- Troll control (cruise control)



### NAVMAN FUEL3100 / DIESEL3200

#### Petrol Engine Fuel Computer

Calculates your economy rating using fuel and speed data from a speed transducer or GPS, allowing the engines to be run at optimal throttle settings taking into account sea conditions, boat type and load. Compatible with all Navman speed transducers.



#### KEY FEATURES

- Instant fuel flow
- Engine hours counter
- Day and total fuel used
- Low fuel and low battery alarms
- Graphical fuel gauge and fuel remaining in tank
- Diesel3200 monitors diesel flow with a positive displacement transducer on the inlet and return lines to accurately calculate fuel consumption
- Shared data via NMEA or NavBus
- With GPS input - fuel economy, average and max speed for trip, total, current and remaining distance

#### SUPPLIED WITH

- Fuel3100 - In-line fuel gauge sensor
- Diesel3200 - Single engine kit with dual fuel flow transducers



ORDER CODE FUEL3100 - ZPLA49506  
ORDER CODE DIESEL3200 - ZPLA49595

### NAVMAN TRACKFISH6000 SERIES

#### Colour Chartplotter/Fishfinders

Combines all the functions of the popular Tracker and Fish ranges, with the same simplicity of use, top performance, powerful output and high quality resolution display. They also offer extra capabilities such as petrol or fuel management as well as SmartCraft compatibility. The new Trackfish6507 features AIS navigation input.

#### KEY FEATURES

- 3000 waypoints, 25 routes, 5 tracklogs
- Inbuilt fuel computer (requires optional fuel kit)
- C-Map NT and MAX charts with tide and port data
- When connected to a DSC VHF, can display the real time position of 3 other boats on the chart
- 50/200kHz dual frequency fishfinder, 600W RMS
- Max depth 600m

#### MODELS AVAILABLE

- Trackfish6500 - 5in colour display, external GPS
- Trackfish6507 - 5in colour display, AIS input
- Trackfish6600 - 7in colour display, external GPS

ORDER CODE TRACKFISH6500 - ZPLA53327  
ORDER CODE TRACKFISH6507 - ZPLAXXXX  
ORDER CODE TRACKFISH6600 - ZPLA49600



### NAVMAN TRACKER5000 SERIES

#### GPS Chartplotters

Navman have updated their popular range of daylight view chartplotters - they're all C-Map MAX compatible and have an inbuilt 16Mb regional background map. Additional models have also been added offering screen sizes from 3.8in up to 6.4in.

#### KEY FEATURES

- WAAS / EGNOS enabled GPS
- Inbuilt fuel computer (requires optional fuel kit)
- SmartCraft compatible (colour units only)
- 3000 waypoints, 25 routes, 50 waypoints per route
- Dedicated waypoint key and Man Over Board key
- NavBus to interface with 3100 Sailing Instruments
- 5507/5607 are AIS compatible



#### MODELS AVAILABLE

- Tracker5380 - 3.8in colour, external GPS
- Tracker5380i - 3.8in colour, internal GPS
- Tracker5430 - 4.3in mono, external GPS
- Tracker5430i - 4.3in mono, internal GPS
- Tracker5507 - 5in VGA colour, external GPS
- Tracker5607 - 6.4in VGA colour, external GPS

#### SUPPLIED WITH

12 channel GPS antenna

ORDER CODES - CALL FOR DETAILS



#### OUR VERDICT

One of the best range of budget colour chartplotters available and one of our top sellers - they're rugged with bright clear displays plus all the bells and whistles you get with C-Map MAX cartography.

### NAVMAN FISH4000 SERIES

#### Fishfinders

Expanded range of compact fishfinders with displays from 3.5in to 6.4in. All use Navman's latest SBNI digital sonar technology with automatic gain and range settings to maximise signal enhancement, bottom recognition and noise rejection. All are designed to withstand the elements and are fully waterproof to IPX7 standard.

#### KEY FEATURES

- Sunlight viewable display (colour models)
- Sonar, A-Scope and Zoom
- SmartCraft compatible (4433, 4380, 4507, 4607 only)
- Fuel computer (4433, 4380, 4507, 4607 only) requires fuel kit
- Low battery, shallow, deep, water temperature and temperature rate of change alarms

#### MODELS AVAILABLE

- Fish 4350 - 3.5in colour, 200W, 200kHz, max depth 180m
- Fish 4380 - 3.8in colour, 200W, 200kHz, max depth 180m
- Fish 4431 - 4.3in mono, 150W, 200kHz, max depth 180m
- Fish 4433 - 4.3in mono, 250W, 83/200kHz, max depth 230m
- Fish 4507 - 5in VGA, 600W, 50/200kHz, max depth 600m
- Fish 4607 - 6.4in VGA, 600W, 50/200kHz, max depth 600m

ORDER CODES - CALL FOR DETAILS



### MAGELLAN CROSSOVERGPS

#### Auto/Marine GPS Navigator

**All-in-One portable navigation!** The CrossoverGPS is a multi-application device designed for marine, outdoor and auto navigation. Preloaded with Navteq road maps for the whole of the UK and Ireland, it's also compatible with BlueNav XL3 marine charts and Topo land cartography - simply change the SD Card to switch from marine to auto navigation and vice versa. The unit also features an inbuilt MP3 player, enabling you to store tracks on SD card to listen to anywhere.

Road coverage of other European regions is also available - including the whole of Europe on one SD card, call us for more details. **Great value bundle with XL3 marine chart!**

#### KEY FEATURES MARINE

- 250 waypoints, 20 routes of 50 points
- Mark and save locations, enter co-ordinates in Lat, Long etc
- Distance to destination, heading, XTE, estimated time of arrival and altitude

#### KEY FEATURES ROAD

- Turn-by-turn voice and visual guidance with SayWhere™ announcing the distance and name of the road or street
- Calculates the most direct route and automatically recalculates whenever you take a detour or make additional stops
- Choose from 4 methods Shortest Time, Shortest Distance, Least Use of Motorways or Most Use of Motorways
- Route optimisation calculates the shortest route between multiple addresses, ideal for professional drivers such as salesmen, couriers, van drivers etc

#### SUPPLIED WITH

USB PC interface cable, power cable, mounting bracket



**NEW FOR 2007**



**ORDER CODE - ZMAG980890-05**

**ORDER CODE WITH XL3 MARINE CHART - ZMAG980890XL3**

### MAPSEND DIRECTROUTE

#### Street Cartography

DirectRoute enables you to download detailed street maps via a PC to your Magellan handheld GPS and be guided to your destination with turn-by-turn visual and audio prompts.

Enter your destination and DirectRoute will calculate the shortest route and guide you to your destination. View your movement in and around the surrounding streets as your journey progresses.



#### KEY FEATURES

- Detailed street level maps for the UK and most of Western Europe
- Search by address, city or co-ordinates
- Visual and audio turn-by-turn prompts
- Automatically calculates the shortest journey time
- View your journey and surrounding areas

**ORDER CODE - ZMAG980654-02**

### MAPSEND TOPO GT BRITAIN

#### Land Cartography

Detailed Topographical mapping information based on Ordnance Survey maps can now be downloaded from your PC to your Magellan GPS. Use your PC to check the topography, trails, and tens of thousands of points of interest in over a dozen categories. Select the desired area and download the information into your GPS.



#### KEY FEATURES

- Roads, lanes, footpaths, tracks, woods, contour lines, lakes, rivers, mountains, dams, caves and other points of interest
- View elevations anywhere on the map
- Create vertical profiles to check if the terrain is too steep to navigate and create alternative routes
- Know the terrain in advance

**ORDER CODE - ZMAGMSTOP-GB**

### MAGELLAN EXPLORIST XL

#### Colour Handheld GPS Chartplotter

A compact rugged GPS with a 3.5in colour glare resistant display. Pre-loaded with an 8Mb European basemap with major roads, waterways, airports and parks etc, 30Mb of internal memory is also available for saving track files, routes etc or expanding the mapping capabilities by downloading detailed cartography for sailing, hiking, camping or driving using optional MapSend software.



#### KEY FEATURES

- 3.5in colour, glare resistant display
- 30Mb internal memory
- Unlimited memory via SD cards
- Uses 2 x AA batteries

#### SUPPLIED WITH

USB PC interface cable

**ORDER CODE - ZMAG980812-03**



**HOT PRODUCT!!**

### MAGELLAN EXPLORIST210

#### Handheld GPS

Compact, lightweight GPS receiver with an 8Mb built-in European basemap including major roads, parks, waterways, airports etc. 22Mb of internal memory is available for saving track files, routes or for downloading optional MapSend software. The PC style file memory system stores 380 files, each containing 500 points of interest, plus 150 track logs each with 2000 track points.

#### KEY FEATURES

- 8Mb built-in European basemap
- 22Mb additional internal memory
- Stores 190,000 waypoints/POI
- 150 track logs each with 2000 track points



#### SUPPLIED WITH

USB PC interface cable

**ORDER CODE - ZMAGEXP210**



### GEONAV 4 GYPSY

#### Colour Handheld Chartplotter

The world's first Navionics Platinum handheld chartplotter! Weighing less than 300g and with a 9hr battery life, the Geonav 4 Gypsy is designed for use on land and at sea, using Navionics Land&Sea charts - including Platinum marine charts. This versatile and powerful unit is equipped with a 12 channel WAAS-EGNOS GPS, world basemap and a transfective TFT 3.5in backlit LCD that offers outstanding graphical performance under all visibility conditions.



#### KEY FEATURES

- Compatible with Navionics Land&Sea, Platinum and Land&Sea Platinum charts
- Optional external antenna
- Waterproof (IPX7)
- Visual and acoustic Anchor Alarm
- Own ship position window
- Autozoom™

- Easy View
- Runway display
- Tide & currents data
- Overzoom
- Chart rotation
- Save unlimited markers, routes and waypoints on CompactFlash cartridge



ORDER CODE - ZGEOGY

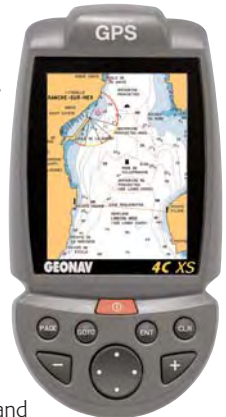
### GEONAV 4C XS

#### Colour Handheld Chartplotter

The first plotter to include land and marine charts at maximum detail on a single cartridge. With a superb sunlight visible 3.5in display, the 4C is ideal for both onboard and in-car use.

#### KEY FEATURES

- Built-in world map
- Navionics Gold "Land&Sea"
- VGA video output
- NMEA and USB ports
- Waterproof (IPX7)
- Visual Anchor Alarm
- Autozoom™
- Runway display
- Tide & currents data
- Overzoom
- Chart rotation
- Voice prompted road navigation
- Unlimited markers, routes and waypoints on CompactFlash cartridge



#### SUPPLIED WITH

Navionics 28GLS UK Land&Sea Chart, power supply cable, rechargeable batteries, cradle

ORDER CODE - ZGEO4CXSLB

### GEONAV 7 WIDE

#### 7in Colour Chartplotter/Fishfinder

Featuring a sunlight view transfective TFT LCD display guaranteed against fogging and condensation. New 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 and a transducer: thru-hull, in-hull and transom mount, retractable/non retractable, in plastic or bronze. Unlimited markers, routes and waypoints can be saved on CompactFlash cartridges.

#### KEY FEATURES

- 2D or 3D cartography
- Built-in 12 channel WAAS-EGNOS GPS antenna
- Built-in world map
- Cartography: Navionics Gold, Navionics Platinum
- Waterproof (IPX6), panel, bracket or flush mounting
- Acoustic Anchor Alarm
- Autozoom™
- Easy View



- EBL/VRM
- Own ship position window
- Runway display
- Tide & currents data
- Overzoom
- Chart rotation
- Screen Amplifier™
- MOB



ORDER CODE - ZGEO7C

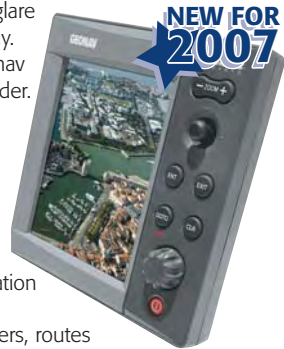
### GEONAV 5 TOURING

#### 5in Colour Navigator/Fishfinder

Innovative unit combining chartplotter, fishfinder and in-car navigator in one package. Inbuilt 12 channel WAAS-EGNOS GPS and world map. Compatible with Navionics Land&Sea, Platinum and Land&Sea Platinum charts. Antiglare and nonfogging display. Compatible with Geonav F170 black box fishfinder.

#### KEY FEATURES

- Visual Anchor Alarm
- Autozoom™
- Easy View
- Runway display
- Tide & currents data
- Overzoom, chart rotation
- Waterproof (IPX7)
- Save unlimited markers, routes and waypoints on CompactFlash cartridge



#### SUPPLIED WITH

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

ORDER CODE - ZGEO5T

### NORTHSTAR 8100i

#### 12in & 15in Colour Combi Display

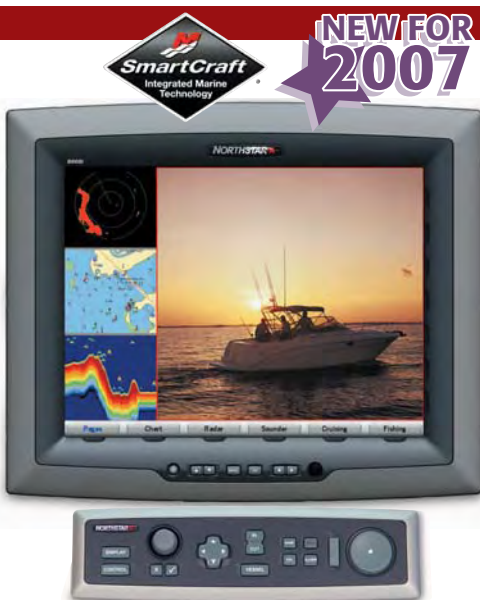
Revolutionary combi display providing navigation, multimedia entertainment, instrumentation, cameras, fuel management, SmartCraft engine monitoring and more. High performance digital radar offers MARPA, radar chart overlay and networked radar means that any display can access the radar. Choose from the 12in touchscreen display with integral keypad, or the 15in touchscreen display with separate keypad panel.



#### KEY FEATURES

- Unique touch screen for unparalleled ease of use
- C-Map MAX PRO cartography
- High performance networked digital radar with
- 1kW networked digital sounder
- Customisable displays
- DVD, video, CD and Digital Music player

ORDER CODE 12in - CALL FOR DETAILS  
ORDER CODE 15in - CALL FOR DETAILS



### NORTHSTAR 6100i

#### Colour Combi Display

Plotter, radar, sounder and video all on one powerful waterproof networkable display, available in 6.4, 8.4, 10.4, 12 and 15in sunlight viewable screen sizes.



#### KEY FEATURES

- HD digital radar
- Video input and output
- Navionics Platinum, Classic, Silver, Gold, Gold+
- 600W or 1kW RMS dual frequency sounder
- SmartCraft™ Engine Monitoring

ORDER CODES - CALL FOR DETAILS

# Superyacht Systems

## Navigation & Communication

### Commercial Grade Systems - Superyacht Installations

We aren't just experts in leisure marine electronics, we also specialise in Superyacht installations using commercial grade equipment, both new build and retro-fit. The equipment is also ideal for commercial and fisheries vessels.

We will specify the right equipment for your vessel and your intended usage. We have teams of experienced installation engineers who will fit, set up and test the equipment ready for use. Our installation packages include full training and worldwide warranty on all equipment. Give us a call to discuss your needs.

Here is just a small selection of the equipment we can offer you for your vessel -

### GLASS BRIDGE SYSTEMS

#### Multi Screen Integrated Navigation Systems



With the proliferation of electronics systems on large vessels it's easy for your bridge to become swamped with displays. Glass bridge systems, from manufacturers such as Nobeltec and Simrad clear away the clutter by replacing dedicated systems with an integrated network using shared monitors that can be quickly switched between applications as required.

#### KEY FEATURES

- Specialised sunlight viewable Glass Bridge displays in a range of sizes and brands
- Single or multiple Glass Bridge displays
- Display vector and raster charts, 3D, radar, sonar, echosounder, fishing monitors, nav info, deck and engine room cameras, video inputs and more
- Full navigation system / PC system integration
- DVD and other entertainment systems
- Multiple control options - marinised keyboards, armrest controls, trackballs and mice



### SELF STEERING

#### Professional Autopilot Systems

Choosing the right autopilot for your vessel can be a confusing and time consuming experience. Talk to the experts and we will recommend the best systems to choose - a variety of professional standard autopilot systems are available, many of which are specifically designed for superyacht and high speed applications.

#### KEY FEATURES

- Wide range of drive and steering system options
- Specialised sailboat and high speed powerboat autopilot systems
- Full integration with Glass Bridge navigation system
- Bow thruster control
- Gyrocompass and satellite compasses
- Retrofit or new build



### INMARSAT COMMUNICATIONS

#### Satcom Systems

If you still want to stay in touch with the office or home while at sea, high quality low cost voice and data communication is provided by the Inmarsat satellite network, with coverage of approx 90% of the globe. A range of models and dome sizes are available to suit most vessels.

#### KEY FEATURES

- Maritime communication terminals for phone, fax, email and Internet
- Global coverage, 78°N to 78°S
- Uses the latest generation of Inmarsat satellites
- **Fleet77** for "always on" internet, email and ISDN at up to 128kbps
- 3.1 KHz Audio
- Global Voice Distress
- **mini-M** - compact, low cost direct-dial voice, fax and data at up to 2.4kbps
- **Inmarsat C** - GMDSS and slow speed data communications
- Call us for information on professional Iridium satphone systems



### SATELLITE TELEVISION

#### SatTV Systems

A range of satellite TV systems covering all popular cruising areas to match your satcom dome are also available, giving you access to hundreds of HD TV channels, local programming and more!

#### KEY FEATURES

- Hundreds of channels including HDTV, Internet data broadcasts and local programming where available
- Automatic satellite switching
- Gyro-stabilised tracking
- DIRECTV and DVB compatibility



### ENTERTAINMENT

#### Multi-Cabin Distributed Systems

We can supply, install and configure a fully integrated multi-zone entertainment system from leading manufacturers such as Linn, giving audiophile quality sound across all areas of your vessel. Music is stored digitally in a central archive and can be streamed simultaneously anywhere in the vessel.



We are also experts in Home Cinema and surround systems and can offer a wide range of LCD TVs, plasma TVs and projection systems.



#### Other Services

- X-Band radar systems
- ECDIS/ECS professional navigation
- Safety at Sea - EPIRBs, SARTs, AIS, GMDSS
- Vessel tracking and management systems
- Sonar
- Call us to discuss your requirements

We accept most major credit and debit cards





### FURUNO M1623

#### 6in Mono LCD Radar

A great value high contrast LCD radar for pleasure craft and small fishing boats. Radar echoes are shown in four shades of gray on the 6in Silver Bright display. It offers detailed images of coastline and targets at short ranges thanks to narrow pulselengths and dual IF bandwidths. The display is waterproof, making it ideal for cockpit or flybridge installation.

In the Watchman mode, the antenna is stopped and the screen displays nav data only. The radar wakes up at a specified time interval (5, 10 or 20 min) and operates for 1 minute. If a target enters the Guard Zone, an audible alarm sounds and the radar goes into its normal operating mode, cancelling the Watchman mode. The alarm may also be set to work for a target leaving the Zone.

#### KEY FEATURES

- Omnipad cursor control
- 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

#### SUPPLIED WITH

2.2kW 15in radome antenna & 10m cable

#### ALSO AVAILABLE

- M1715 - as the 1623, but with a 7in mono display and an 18in, 2.2kW radome, max range 24nm



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

#### OUR VERDICT

The 1623 is quite simply the best radar you'll pick up for under £1000. Great performance and excellent value for money.

**ORDER CODE M1623 - ZFURM1623**

**ORDER CODE M1715 - ZFURM1715**

### FURUNO LS4100

#### 5in LCD Mono Fishfinder

Easy to use dual frequency mono fishfinder with the highest resolution display in its class.



#### KEY FEATURES

- 50/200kHz, 300W RMS, max depth 500m
- White Line and "Sea-Through" technology discriminates echoes from the sea bed
- Unique bottom lock fish alarm provides consistent audible bottom fish detection in varying depths
- Displays speed and wind data if interfaced with relevant sensor
- Mini-navigator feature provides 12 "goto" waypoints with programmable names

#### ALSO AVAILABLE

- LS6100 - all the features of the LS4100, but with a 6in mono display.

#### SUPPLIED WITH

Transducer must be specified when ordering



**ORDER CODE LS4100 - ZFURLS4100**  
**ORDER CODE LS4100 - ZFURLS6100**



### 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 mono 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



**ORDER CODE - ZFURNX300D**



### FURUNO FI30

#### Instrument System

A range of modular multifunction displays and transducers that connect via a central processor unit. Styled to compliment the NavNet range, the FI30 instruments integrate easily with Furuno's range of radars, autopilots and navigation displays.

#### KEY FEATURES

- Large, clear backlit LCD displays
- Easy to use
- Digital and analogue displays
- Interfaces with autopilot, radars and plotters

#### INSTRUMENTS AVAILABLE

- Multi Control
- Speed
- Depth
- Wind Data
- Compass Data
- Multi XL
- Analogue Wind Angle
- Analogue Rudder Angle
- Analogue Speed Trim
- Analogue Compass
- Analogue Steer Pilot

#### SUPPLIED WITH

Transducers must be specified when ordering

**ORDER CODE MULTI CTRL - ZFURFI-301**

**ORDER CODE SPEED - ZFURFI-302**

**ORDER CODE WIND - ZFURFI-303**

**ORDER CODE COMPASS - ZFURFI-304**

**ORDER CODE MULTI XL - ZFURFI-305**

**ORDER CODE ANALOGUE WIND - ZFURFI-306**

**ORDER CODE ANALOGUE SPEED - ZFURFI-308**

**ORDER CODE ANALOGUE COMPASS - ZFURFI-310**

**ORDER CODE STEER PILOT - ZFURFI-307**





### FURUNO GP7000 & GP7000F

#### Colour 7in Widescreen Chartplotter and Chartsounder

Colour GPS Chartplotter and Chartsounder with Course Plot, Nav Data, Steering and Highway display modes. The course plot mode is useful for obtaining general information about surrounding sea areas. The Nav data mode clearly shows important navigational information with large text, which is easy to see even from a distance. The steering mode and highway mode assist the operator in following a predetermined route.

The 50/200 kHz dual frequency echosounder can be displayed full screen or split screen with the course plot mode.

#### KEY FEATURES

- Chartplotter (GP7000) or combination chartsounder (GP7000F)
- User friendly operation with rotary control knob and softkeys
- 12 channel GPS EGNOS/WAAS receiver
- Enhanced chart redraw speed
- Split screen display
- Dual chart slots
- North up, course up or auto course up
- 5000 waypoints, 200 routes, 12,000 trackpoints
- 7 language operation
- Dual frequency 50/200kHz echosounder with 600W or 1kW transmitter, max depth 1200m
- Bottom-lock, Bottom-zoom, Marker-zoom, A-scope or normal presentation with one or two frequencies



**HOT PRODUCT!!**



**ORDER CODE GP7000 - ZFURGP7000**  
**ORDER CODE GP7000F - ZFURGP7000F**

### FURUNO FCV620

#### 5.6in LCD Colour Fishfinder

Fantastic new high performance 50/200kHz dual frequency 600W fishfinder with wide angle sunlight viewable display with a wide viewing angle. Selectable single, dual, zoom and Nav data modes.



#### KEY FEATURES

- Rotary knobs for gain and mode select
- Digital filter adjusts gain, STC and output power for outstanding detection in shallow and deep water
- Cruising and fishing auto modes
- Fast pulse transmission rate for outstanding shallow water echo presentation
- TLL output for GPS plotter display
- 8/16/64 colour echo presentation for displaying subtle echo images
- Customised nav data display when interfaced with appropriate sensors
- Swivel mount bracket or flush mountable

#### ALSO AVAILABLE

- **FCV-585** - has all the features of the FCV-682 but with a 8.4in display and up to 1kW output (requires MB-1100 matching box)

**ORDER CODE FCV620 - ZFURFCV620**  
**ORDER CODE FCV585 - ZFURFCV585**

### FURUNO GP32 & GP37

#### Fixed GPS

High performance GPS navigator with large backlit waterproof display. Available as a 12 Channel WAAS enabled GPS (GP32) or dGPS (GP37).

#### KEY FEATURES

- Navigational data, track plotter and highway displays
- Graphic and numerical data display
- Up to 950 waypoints, 50 routes, 1,000 trackpoints
- Low power consumption - less than 3W
- NMEA output
- PC interface available



**ORDER CODE GP32 - ZFURGP32**  
**ORDER CODE GP37 - ZFURGP37**

**BEST SELLER**

### FURUNO SC60

#### 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

#### SUPPLIED WITH

3 axis sensor

**ORDER CODE - ZFURSC60**

### FURUNO FM2721

#### Fixed VHF Radio

Includes all International, US marine and weather channels. Fully featured handset with Distress Alert button in cradle.

#### KEY FEATURES

- Easy to use
- Clear backlit LCD display
- Full function DSC Class D
- Numeric keypad channel selection
- Dual channel watch, 16 and selected channel

#### SUPPLIED WITH

Cradle, loudspeaker, transceiver module

#### ALSO CONSIDER

- Simrad RS82
- Raymarine Ray240E



**ORDER CODE - ZFURFM2721**

### FURUNO NAVPILOT 500

#### Inboard Autopilot System



Modular system for sail and power. The control unit features a 4.6in LCD display, rotary control knob and dedicated function keys. Advanced self-learning steering algorithm adjusts to suit the boat's speed, trim and draft as well as tide, wind and weather effects.

#### KEY FEATURES

- Advanced Auto automatic ground tracking control
- FishHunter feature steers boat in a holding pattern around target when connected to fishfinder or radar
- NavNet compatible

#### ALSO AVAILABLE

- NavPilot 511 - all the features of the NavPilot 500, but with a compact control head



#### SUPPLIED WITH

Control unit, course computer, heading sensor and rudder feedback unit. Drive must be specified.

**ORDER CODES - CALL FOR DETAILS**



### FURUNO NAVNETBB

#### Black Box Multifunction System

Now get NavNet with a larger display! The NavNet Black Box system separates the display from the control unit and processor, allowing you to use virtually any size multi-sync PC monitor with a VGA input.



#### KEY FEATURES

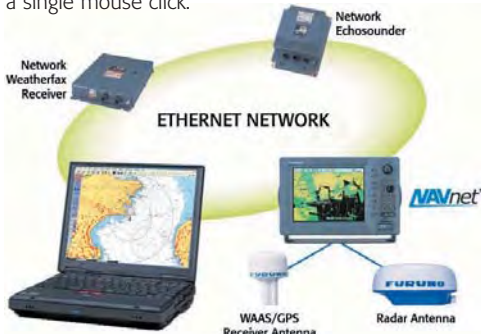
- Standard external video input/output
- Radar options from 18in 2.2kW radome up to a 6.5ft 12kW open array, maximum range of 72nm
- Off-center, Echo trail, North Up display modes
- True or Relative Motion etc
- Chart-radar overlay
- 11 - 40V DC

### MAXSEA NAVNET

#### Navigation Software

Produced exclusively for Furuno, MaxSea NavNet is a comprehensive user-friendly navigation tool offering increased efficiency and exclusive capabilities including seamless chart display, advanced weather forecast overlay, real-time 3D seabed images and more. Its intuitive tool palette makes operation fast and easy.

MaxSea NavNet can analyse data from multiple sources by integrating with the NavNet system, sharing data from radar, GPS, echosounder, weatherfax receiver and more. This allows advanced features such as on-screen radar chart overlay. But MaxSea NavNet takes the overlay facility one stage further, enabling you to overlay information on top of the chart - tracks, marks, hazards, currents, water temperature etc. Each layer can be shown and hidden with a single mouse click.



#### KEY FEATURES

- Shared navigation data with the NavNet network
- Full control of NavNet displays
- Compatibility with most chart formats, both raster (ARCS, Mapmedia, Seafarer, Maptech, NDI, Softchart) and vector (S57, C-Map 93 and NTPC)
- Advanced ARPA and AIS mobile target tracking
- Free up to date ocean conditions and weather forecasts via email
- PBG (Personal Bathymetry Generator) creates 2D and 3D images of the seabed

**ORDER CODE - CALL FOR DETAILS**

### FURUNO NAVNET2

#### Multifunction Navigation Displays

Advanced integrated navigation system incorporating GPS, chart plotter, radar and fish finders. Available as 7in mono, 7in colour and 10.4in colour LCD TFT displays and also 10in mono CRT display.



#### KEY FEATURES

- Supplied standard as Chartplotter or Chartradar
- Ethernet based network
- Multiple display option
- Each display operates as an individual unit or as part of the network
- Over 50 different display modes
- Common user interface and control panel
- Selectable background colours
- Optional NTSC/PAL interface allows for TV/VCR/DVD/PC video input (10.4in LCD only)

#### NAVIGATION FEATURES

- 12 channel network GPS antenna
- C-Map Max chart compatible
- Head-up, North-up, Course-up and True Motion Radar display modes
- Chartplotter display modes : Course Plot, Alpha-numeric Nav Data, Steering and Highway
- 8000 trackpoints, 1000 waypoints, 200 routes

#### RADAR FEATURES

- Radar power output ranges from 2.2kW to 6kW
- Split screen and Radar overlay
- Dual EBLs and VRMs
- Radar Guard Zone

#### ECHOSOUNDER FEATURES (REQUIRES ETR6)

- Dual-frequency (50/200kHz), 600W or 1kW RMS fishfinder option

### Tech info

#### NavNet Accessories

The following accessories are available -

Network GPS	12 channel active antenna
PAL Board	Allows TV/Video input
ETR6	Network sounder module
Network Sounder	Dual Frequency 50/200kHz plastic or bronze through hull transducers for network sounder module
ARPA Module	Max 10 targets, 10in LCD/CRT only



#### ALSO CONSIDER

- Garmin GPSMap3006C & 3010C
- Raymarine E Series
- Simrad CX NavStation

#### CUSTOMER COMMENTS

*"I can't imagine sailing without my NavNet radar and chartplotter - an essential crewmember"*  
- B. Albrecht, Manchester

#### OUR VERDICT

For value, performance and reliability, NavNet is hard to beat. The wide range of display options and flexible configuration make them ideal for any application - power, sail or fishing.

**ORDER CODE - CALL FOR DETAILS**

Gyro Compass	PG1000 Fluxgate (required for ARPA)
FAX 30	Weatherfax module

#### Navnet Hubs & Cables

Interconnecting Cables	For linking Dual Station / Repeater
Ethernet Hub	Allows for multiple stations or 2+ units including Network Sounder
Ethernet Cable	Links NavNet equipment together. Available in various lengths

### SIMRAD CX SERIES NAVSTATION

#### Multi-Function Navigation Displays



The CX NavStations are a range of multifunction combi displays that can function as a GPS chartplotter, radar, echosounder and navigation hub. As a standalone unit the NavStation is a full-function chartplotter and is supplied with a compact SDGPS antenna. To add radar or echosounder functionality, simply fit a radar antenna or the echosounder transducer module. Information can be shared between the NavStation and Simrad instrumentation and autopilots via the proprietary SimNet high speed bus. The NavStation is available with 6, 7 and 10in displays. A dedicated 6in chartplotter, the CP31 is also available. Note that radar is not available on the 6in CX33 unit.

#### CHARTPLOTTER FEATURES

- Uses the latest C-Map NT MAX cartography
- Dual chart slots - display two charts simultaneously at different scales
- 35,000 waypoints, 50,000 tracks, 10,000 routes
- NMEA interface to instruments, radar or autopilot
- Port & Tidal flow information
- Quick scale
- North Up, Head Up or Nav Up modes
- True or Relative Motion

#### RADAR FEATURES (CX34 & CX44 ONLY)

- Radar chart overlay
- User selectable 24 or 48 revolutions per minute.
- Multi range - 1/8nm to 48nm, or 36/24nm
- Dual range - 2 radar pictures with individual range settings
- Quick-range. Single key access to nine fixed range settings
- Parallel radar and chart image
- North Up and Head Up modes
- True or Relative Motion
- 2 or 4 kW radome or 3 or 4ft 4 kW open array scanner

#### ECHOSOUNDER FEATURES (NOT CP31)

- Dual frequency - selectable 38, 50 & 200kHz
- Single or dual frequency display
- Two 1000W transmitters (8,000W PP)
- Accurate up to 1800m (5400 ft)
- Night setting
- Depth and Fish Alarms

#### SUPPLIED WITH

Power cable, interface cable and SDGPS antenna. Radar antennas, echosounder modules and transducers must be specified separately



#### ALSO CONSIDER

- Raymarine E Series
- Furuno NavNet2
- Garmin GPSMap3006C, 3010C, 4008, 4012

#### NAVSTATION RANGE

- CP31 - 6in colour display, chartplotter only
- CX33 - 6in daylight view display
- CX34 - 7in daylight view display
- CX44 - 10in sunlight view display

**ORDER CODE CP31 - CALL FOR DETAILS**

**ORDER CODE CX33 - CALL FOR DETAILS**

**ORDER CODE CX34 - CALL FOR DETAILS**

**ORDER CODE CX44 - CALL FOR DETAILS**



#### Also consider...

#### Navigation Displays -

- Furuno page 27
- Garmin page 16
- Navman page 19
- Raymarine page 3-5



#### Tech info

##### Simrad NavStation Accessories

The following accessory options are available with these units - please specify when ordering.

##### Depth transducers

- P319D 200kHz plastic through hull
- P52 200kHz transom mount
- C50/200 50kHz/200kHz dual frequency
- C38/200 38kHz/200kHz dual frequency

##### GPS Engines

- GPS-5 14 channel parallel GPS antenna
- MGL-3 dGPS antenna

##### Radar Antennas

- RB714A 2kW 18in radome 24nm range
- RB715A 4kW 2in radome 36nm range
- RW716A 4kW 3ft/4ft open array 48nm range
- RW717\* 6kW 4ft/6ft open array 72nm range
- RW718\* 12kW 4ft/6ft open array 96nm range

### SIMRAD WR20

#### Wireless Handheld Controller

Total control in your hands!

The WR20 RemoteCommander is the first remote control that acts as a wireless VHF handset and can both display data and control the entire onboard electronics system including VHF, Autopilots, Instrumentation, Chartplotters & NavStation.



This is made possible through SimNet, Simrad's advanced network that allows seamless integration. The base unit requires no separate power supply - simply connect to the SimNet network to get instant total control of the products in the network.

#### KEY FEATURES

- Rugged, waterproof handset
- Easy to use - primary functions of all systems can be accessed with the minimum of button presses
- Keypad lock
- Fully customisable display
- Advanced, high capacity rechargeable Li-Ion battery is charged whenever handset is placed in its cradle

#### Autopilots (TP22/32, WP32, AP16, AP25/26/27)

- Steer the boat from anywhere onboard
- Easy course adjustment using the NavPad
- Wireless control of advanced steering features
- Heading information display

#### Plotters, Echosounders and NavStation

- (CP31, CX33, CX34/44/54, EQ33/44/54)
- Remotely control Radar, ChartPlotter or Sounder
- Change views, zoom, scroll cursor
- Full MOB control from anywhere
- Seamless control of pilot and navigation

#### VHF (RS81/82, RS86/87)

- Make VHF calls from the handset
- Choose channel, press PTT
- Easy volume and squelch adjustment
- Call crew on the intercom

**ORDER CODE - ZSIMWR20**

### SIMRAD TP10, TP22 & TP32

#### Cockpit Tillerpilots

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



- TP10 (Up to 9m) - Budget standalone Tillerpilot.
- TP22 (Up to 10m) - 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.

#### KEY FEATURES

- Powerful, low current consumption
- 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)

#### SUPPLIED WITH

Mounting kit, deck socket (TP22/32 only)

#### ALSO CONSIDER

- Raymarine ST1000+, ST2000+

**ORDER CODE TP10 - ZSIMTP10**

**ORDER CODE TP22 - ZSIMTP22**

**ORDER CODE TP32 - ZSIMTP32**



### SIMRAD RD68

#### Combined VHF/DSC Radio



The RD68 offers all the functions of a fully featured VHF radio and Class D DSC controller in a single compact, package. Alphanumeric keypad and softkey operation makes it very easy to use. Rugged weatherproof construction and cast alloy enclosure. Features an external speaker socket for cockpit speakers etc.

#### KEY FEATURES

- Backlit display & keys
- Intuitive softkey operation
- Full function VHF and DSC Class D controller
- Flush mountable
- NMEA0183 input

#### SUPPLIED WITH

Standard mounting bracket and fistmic (telephone handset available as optional extra)

#### ALSO CONSIDER

- Icom M402, Navman 7200, Silva S12

**ORDER CODE - ZSIMSIRD68**

### SIMRAD AP16

#### Inboard Autopilot System

The AP16 autopilot offers the features of the larger AP25 series autopilots, but in a compact package for smaller power and sailboats. With it's unique Course Pad and dedicated keys for each main function it's really easy to use. The dedicated keys give precise control of the large clear dot matrix display and the SimNet network allows you to share all vital information with other Simrad equipment.



#### KEY FEATURES

- Compact design
- Large clear dot matrix display
- Design complements the IS12 and IS15 instrument ranges
- Same drive options as the AP25 series autopilots - will suit almost any steering system
- Steer to compass, GPS and wind modes
- SimNet compatible
- NMEA0183 and NMEA2000 compatible

#### SUPPLIED WITH

Drives and accessories must be specified.

**ORDER CODE - CALL FOR DETAILS**

### SIMRAD RS81/RS82

#### Single/Dual Station System VHF



If you want a simple single station handset VHF with dual station capability and don't need all the extra bells and whistles of the RS87, here is the solution. The RS81 is simple to use and features an integral loudspeaker - perfect where space is limited. To upgrade to dual station with full Class D DSC, simply add the RS82 handset. For a non-DSC dual station system, fit an additional RS81 handset.

#### KEY FEATURES

- Up to two stations
- Scrambler option
- Intercom between handsets
- NMEA in/out



**ORDER CODE RS81 - ZSIMRS81**

**ORDER CODE RS82 - ZSIMRS82**

### SIMRAD AP25

#### Inboard Autopilot System

Building on the successful AP20 series - one of the best inboard autopilot systems available - the AP25 offers supreme performance with a wide range of drives, junction boxes, compasses and rudder reference units to suit virtually any kind of boat.



#### KEY FEATURES

- NMEA0183 and NMEA2000 compatible
- Proportional rate rudder control
- Follow Up and Non Follow Up Modes
- Advanced Wind Steering (AWS)
- Direct windvane interface
- Multifunction display can act as instrument repeater
- Up to seven control units can be fitted

#### SUPPLIED WITH

Mini gyro rate compass. Drives etc must be specified.

#### ALSO AVAILABLE

- AP26 - Same flexibility as the AP25, but a simpler control head



- AP27 - Handheld control unit with the same features as the AP26

#### ALSO CONSIDER

- Raymarine Smartpilot
- Navman G-Pilot

**ORDER CODE AP25 - CALL FOR DETAILS**

**ORDER CODE AP26 - CALL FOR DETAILS**

**ORDER CODE AP27 - CALL FOR DETAILS**

### SIMRAD RS86/RS87

#### Multi Station System VHF



Modular VHF system with a choice of two different stations - a fully featured handset (RS87) or a fixed panel display (RS86). DSC Class D with single key access to All Ships and Distress Alert category calls under a lift up cover. Display and control DSC call information on your CX series NavStations.

#### KEY FEATURES

- Up to four stations
- Scrambler option
- Dual Fog and Loudhailer options
- Intercom speakers option
- NOAA Weather alert
- SimNet compatible

#### ALSO CONSIDER

- Raymarine Ray240E



**ORDER CODE RS86 - ZSIMRS86F**

**ORDER CODE RS87 - ZSIMRS87**

### LOWRANCE GLOBALMAP 5150C

#### 5in Colour Chartplotter

Low budget / high performance colour chartplotter offering exceptional value for money. Supplied complete with detailed NauticPath cartography covering the whole of the UK, European Atlantic coastline and parts of the Mediterranean.

#### KEY FEATURES

- 5in sunlight viewable SVGA TFT screen
- 12 channel WAAS/EGNOS GPS
- NMEA0183 and NMEA2000 input/output
- Up To 100 savable / retraceable plot trails
- Up To 10,000 points per trail
- SD / MMC card slot
- Submersible

#### ALSO AVAILABLE

- 5200C - LowranceNET ready, external antenna
- 5300C - LowranceNET ready, internal antenna
- LMS520C - Combination chartplotter and echosounder



NEW FOR  
2007



ORDER CODE 5150C - ZLOW116-32NP  
ORDER CODE 5200C - ZLOW123-37  
ORDER CODE 5300C - ZLOW116-29  
ORDER CODE LMS520C - ZLOW123-36

### LOWRANCE GLOBALMAP 7200C

#### 7in Colour Chartplotter

An exceptional, high-end colour GPS+WAAS that includes a large 7in colour high resolution SVGA display. Capable of recording trip details and loading custom mapping with it's waterproof memory card drawer that accepts up to two MMC/SD memory cards. NMEA 2000® compatible for networking.

#### KEY FEATURES

- 7in, 256 colour sunlight viewable SVGA TFT Screen
- 480x640 pixel resolution
- Comes with blank MMC card and MMC card reader
- LowranceNET radar ready

NEW FOR  
2007



#### ALSO AVAILABLE

- LCX27C - Combination chartplotter and echosounder

ORDER CODE 7200C - ZLOW123-22  
ORDER CODE LCX27C - ZLOW123-10

### LOWRANCE I-FINDER H20C

#### Colour Handheld GPS

Superb value for money handheld GPS with a 2.83in high resolution colour display with excellent sunlight and low-light/night viewing. Compatible with Navionics Gold, Lowrance FreedomMaps, Fishing Hot Spots Elite, LakeMaster Pro Maps & NauticPath charts.

#### KEY FEATURES

- 16-channel GPS WAAS precision
- Runs on 2xAA batteries - up to 12hrs use
- Antenna port for optional external GPS antenna
- Dual processors for higher speed screen updates and scrolling
- Easy/Advanced operation modes
- MMC/SD digital media memory card slot for mapping and recording capabilities
- 1,000 waypoints/1,000 event markers/100 routes
- Up to 100 savable and retraceable plot trails, with up to 10,000 points in any trail
- 40 map zoom ranges, 0.02-4,000 miles
- 42 graphic icons to mark special spots
- Internal back-up memory
- Easy point-and-map cursor navigation/route planning
- Waterproof to IPX7 standard
- 12-volt plug power adapter



ORDER CODE - ZLOW112-67

### LOWRANCE GLOBALMAP 8200C

#### 8in Colour Chartplotter

An exceptional, high-end colour GPS+WAAS that includes a large 8in colour high resolution SVGA display. Capable of recording trip details and loading custom mapping with it's waterproof memory card drawer that accepts up to two MMC/SD memory cards. NMEA 2000® compatible for networking.



NEW FOR  
2007



#### KEY FEATURES

- 8in, 256 colour SVGA sunlight viewable display, 600x800 pixel resolution
- Comes with blank MMC card and MMC card reader
- LowranceNET radar ready
- NMEA2000 compatible
- Compatible with Navionics Gold cartography
- Compatible with Lowrance's own FreedomMaps, Fishing Hotspots, Elite, LakeMaster Pro and NauticPath maps

#### ALSO AVAILABLE

- LCX37C - Combination chartplotter and echosounder

ORDER CODE 8200C - ZLOW123-48  
ORDER CODE LCX37C - ZLOW123-43

### LOWRANCE GLOBALMAP 9200C

#### 10.4in Colour Combi Display

Featuring a huge 10.4in diagonal, wide-angle, sunlight-readable display with exceptional high resolution SVGA display. Available as a standalone chartplotter, Lowrance now offers radar compatibility at an affordable price, with a wide range of radome and open array options.



NEW FOR  
2007

#### KEY FEATURES

- 10.4in high res SVGA screen
- Superb sunlight viewability
- 1000 waypoints, 100 routes
- NMEA2000 compatible
- LowranceNET radar ready
- Compatible with Navionics Gold cartography
- Compatible with Lowrance's own FreedomMaps, Fishing Hotspots, Elite, LakeMaster Pro and NauticPath maps



#### ALSO AVAILABLE

- LCX112C - Combination chartplotter and echosounder

ORDER CODE 9200C - ZLOW123-24  
ORDER CODE LCX112 - ZLOW117-92

## VHF, Instruments & Radar

### SILVA NEXUS NX SEA DATA

#### Multi Instrument

The gateway to the entry-level Nexus NX instrument system, Sea Data displays a wide range of data in a large, easy-to-read digital format. Sea Data accepts data from speed and depth transducers and the wireless wind transducer via the WSI connection box allowing apparent wind angle and speed, and true wind angle and speed to be displayed. Multiple units can be installed as part of an NX system.

#### KEY FEATURES

- Large, easy-to-read digital format
- Display speed, depth, log, water temperature
- Start timer, deep and shallow water alarms
- Display apparent wind angle and speed, true wind angle and speed with wind data input
- Easy to use scrolling menus



**NEW FOR 2007**

ORDER CODE - ZNEX22911-52

### SILVA NEXUS NX WIND

#### Wind Instrument

The NX Wind Instrument allows digital and analogue display of wind data on a single unit. The Wind Instrument is available as a repeater display only or as a complete system with wireless wind transducer and interface box.

#### KEY FEATURES

- True wind speed and angle
- Apparent wind speed and angle
- Digital and analogue display



**NEW FOR 2007**

ORDER CODE - ZNEX22921-1



### SILVA NX2000

#### Fixed DSC VHF Radio/Navtex

A tough and versatile fixed VHF radio with DSC, this all-new VHF features the latest technology for the best in reliability, performance and reception quality. Fully waterproof, the NX2000 is available in a choice of colours - grey/orange, grey/black or white and is ideal for all applications including sailing boats, RIBs, fly bridges on motorboats and more.



**NEW FOR 2007**

#### KEY FEATURES

- 25W / 1W power
- Front mounted distress button with protective cover
- Waterproof fist mic with numeric keypad, channel select and DSC buttons
- Top quality, big screen LCD for clear viewing in all light conditions
- Full scan, memory scan and dual watch facilities
- Channel 16 instant access button
- Optional ATIS functionality

ORDER CODE - ZSILNX2000

### SILVA NX1500

#### Handheld VHF

An all-purpose, high quality waterproof handheld VHF with 5/1W transmitting power and a large high quality display which allows viewing even in direct sunlight.

#### KEY FEATURES

- Rubberised outer casing for firm grip in wet conditions
- Swappable rubberised outer casing - supplied with one standard black and one yellow casing
- Memory scan, Dual Watch and Priority Scan
- Tag Scan scans any selected channels
- User defined channel list
- Large LCD display
- Up to 16hrs use (90% standby / 5% transmit / 5% receive)

**NEW FOR 2007**



ORDER CODE - ZSILNX1500

### SEA-ME

#### Active Radar Target Enhancer

Increase the probability that your boat will be seen on ships' radar with this affordable active device. Unlike traditional passive radar reflectors which merely attempt to create a larger radar echo, the Sea-me Radar Target Enhancer is an active system which receives a radar signal, amplifies it and re-transmits it. This ensures a stronger return signal and a more even strength around the full 360° azimuth.

#### KEY FEATURES

- Creates a boosted radar image equivalent to an object of 63sq m max (34sq m average)
- Up to 6 times the performance of standard passive radar reflectors
- Performance is less affected by heel than standard passive radar reflectors
- Active system emits a stronger signal than it receives
- Operates at X Band (9.32-9.5GHz)
- Indicates when vessel is struck by radar pulse
- Instantly available at the flick of a switch
- Small, light (410g) and easy to install
- Can be fitted using a standard 14TPI antenna mount
- Low power consumption (60mA idle, 260mA transmitting)
- Suitable for sailing yachts, motor cruisers and RIBs



#### SUPPLIED WITH

Antenna, 24m cable, control box

#### OUR VERDICT

A very effective solution to a major safety concern for small boat owners.

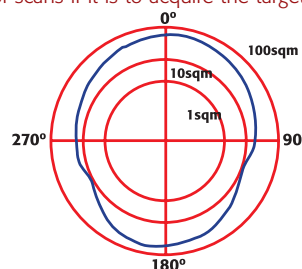
ORDER CODE - ZSEA500.010

### Info Tech info

#### Why Fit an Active Radar Target Enhancer?

At night, the range of the masthead light of a sailing yacht of less than 20m is only 3nm and of a sailing yacht of less than 12m only 2nm - a ship making 20kts will cover 3nm in only 9 mins. As they get bigger, travel faster and have lower manning on the bridge, the risk of collision or a close encounter increases. Therefore it's vital that small craft return a strong radar signal if they are to be seen in plenty of time for avoiding action to be taken by ships.

Consistency is also important since most ships today are fitted with ARPA (Automatic Radar Plotting Aid) which needs to obtain a return of 50% of scans if it is to acquire the target



Performance of the radar cross-section area of Sea-me

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

### McMURDO SMARTFIND E5

#### 406MHz EPIRB

The Smartfind E5 is a new 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

ORDER CODE E5 - ZMCM185833

NEW FOR  
2007



### McMURDO SMARTFIND G5

#### 406MHz GPS EPIRB

A new ultra-compact 406MHz EPIRB with an inbuilt 12 channel GPS giving location accuracy of less than 3m. Supplied with a Carrysafe mounting bracket, the unit 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

- Inbuilt 12 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

ORDER CODE G5 - ZMCM185835

NEW FOR  
2007



### McMURDO FASTFIND PLUS

#### 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, available for use in temperatures of -20°C and -40°C. 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 24 hrs



### McMURDO FASTFIND

#### 406MHz PLB

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

**FASTFIND & FASTFIND PLUS SUPPLIED WITH** Battery pack, case and lanyard

ORDER CODE FASTFIND PLUS - ZMCM050.013  
ORDER CODE FASTFIND - ZMCM050.014



### McMURDO S4 RESCUE

#### SART

A 9GHz X-Band Radar transceiver that has been designed for assisting air/sea ship or survival craft rescue operations in accordance with IMO GMDSS requirements. Once activated it will operate for over 96hrs in standby mode.

#### KEY FEATURES

- Ship or survival craft applications
- 5 year long life replaceable battery pack
- Audio/visual alarm
- Inbuilt test facility
- Internal/external mounting options

#### SUPPLIED WITH

Mounting bracket, lithium battery

ORDER CODE - ZMCM86-300-01A



### ICS NAV6PLUS

#### Dual Channel Navtex Receiver

The large and easy to read backlit LCD display concentrates Navtex and NMEA data from your GPS or instrument system into one central point. An electronic logbook is updated at regular intervals and can be viewed on-screen or printed out via an optional printer.

#### KEY FEATURES

- Simultaneous dual channel Navtex receiver
- Sort messages by receipt time/date, station or category
- RS232 data output
- 12 volt operation

#### SUPPLIED WITH

Dual channel Navtex sensor with 10m cable

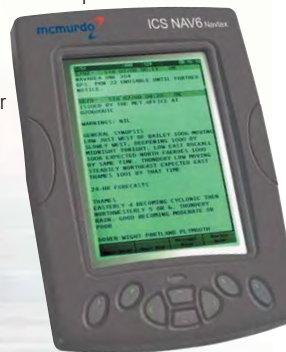
#### ALSO AVAILABLE

- **NAV6DUAL** - All the features of the NAV6PLUS, but without the GPS or NMEA repeater option
- **NAV6PLUS** - As the NAV6PLUS, but can be used with insulated shrouds, backstays or multifunction antennas instead of a dedicated Navtex antenna

ORDER CODE NAV6PLUS - ZICS916.01

ORDER CODE NAV6DUAL - ZICS916.00

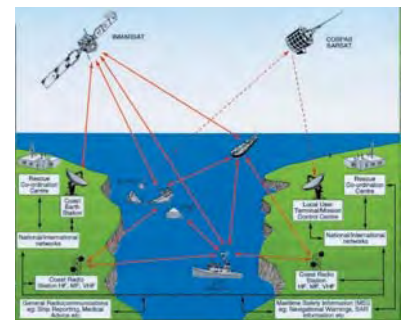
ORDER CODE NAV6PLUS - ZICS920.00



### 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 Rescue and Precision 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.



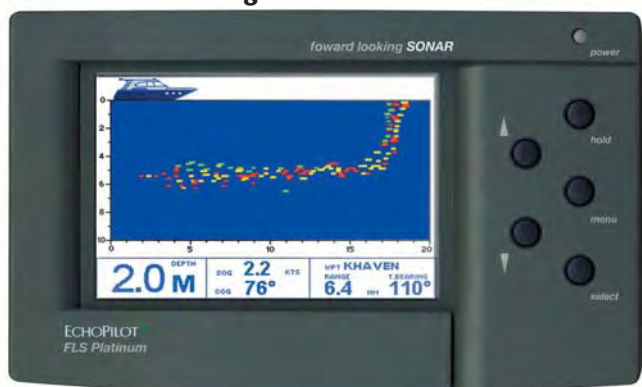
# Echopilot

## Forward Looking Sonar

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

### ECHOPILOT PLATINUM FLS

Colour Forward Looking Sonar



A colour FLS with the best range and performance yet. Developed with all the expertise gathered by Echopilot over 13 years of manufacturing Forward Looking Sonar. With greater resolution than previous models, the large transfective colour LCD can be seen in the brightest sunlight. The use of colour enables enhanced seabed interpretation - the colour of the target depends on its hardness and the strength of echo that it returns. The Platinum is NMEA compatible and can display GPS data. It is designed for flush mounting but there is an 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 for interfacing with on board computers

#### SUPPLIED WITH

200kHz professional transducer with 12m cable

**ORDER CODE - ZECHPLSYS**

### ECHOPILOT PLATINUM VIDEO FLS

Black Box Colour Forward Looking Sonar

**NEW FOR 2007**



Turn your combi display into a colour FLS repeater! Black box colour forward sonar which communicates via video signal 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 box and control keypad which can be connected to any colour display or monitor with composite or S-Video input (display not supplied)

#### KEY FEATURES

- Compatible with Raymarine E series, Garmin 3000/4000 series, Furuno 10in NavNet, Simrad CX and Navman 8000 series and others - call for advice
- 200m forward range
- Improved performance
- Forward Alarm
- Digital Depth
- Speed Option
- Built in GPS Repeater
- NMEA Compatible



**ORDER CODE PLATINUM ENGINE - ZECHPLENG**

**ORDER CODE PLATINUM VIDEO INTERFACE KIT - ZECHPLVK**

### ECHOPILOT BRONZE FLS

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

**ORDER CODE STANDARD - ZECH133.015**

**ORDER CODE PROFESSIONAL - ZECH133.016**



### ECHOPILOT SILVER2 & GOLD2 FLS

Forward Looking Sonar

Real time forward looking 200kHz sonar with enhanced processing software for improved performance. See underwater obstructions ahead of the vessel rather than just the depth below. The range is 20-150m ahead, 10-75m down. The FLS Gold adds a wider screen, NMEA in/out and a repeater option to the features of the Silver FLS.

#### KEY FEATURES

- Manual or Autogain
- History display of sea bed
- Optional log transducer
- Gold - Display GPS info via NMEA - position, BTW, DTW, XTE and waypoint name
- Gold - Output log and depth info via NMEA

#### SUPPLIED WITH

200kHz standard or professional transducer with 12m cable

**ORDER CODE SILVER STANDARD - ZECH133.010**

**ORDER CODE SILVER PROFESSIONAL - ZECH133.011**

**ORDER CODE GOLD STANDARD - ZECH133.012**

**ORDER CODE GOLD PROFESSIONAL - ZECH133.013**



### 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 2D 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 WRECK FINDER

Underwater Wreck Locator

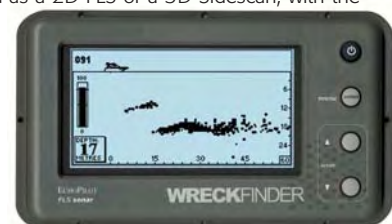
Based on the FLS Gold, the Wreck Finder can locate wrecks and other manmade objects on the sea bed. It can be used as a 2D FLS or a 3D Sidescan, with the wreck finding facility working in both modes. Interface with a GPS to store the position of the last 10 wrecks.

#### KEY FEATURES

- Forward range 150m, depth 75m
- Over 11,000sq metres of seabed can be displayed
- Realtime 3D image of seabed
- Optional switch box for second transducer

#### SUPPLIED WITH

200kHz professional transducer with 12m cable



**ORDER CODE - ZECH133.018**

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

### NAVIONICS

#### Electronic Cartography

Navionics, the leader in electronic charts, offers two main product lines: the popular and established Gold and the new and truly revolutionary Platinum. Both are based on Navionics' exclusive vectorised fully seamless technology, providing clearly legible charts without clutter, holes or discontinuities. Both Gold and Platinum are available in the great value XL3-size extended coverage format, which offers the same outstanding detail of the smaller sizes of the past, at up to 16 zoom levels. All the recent plotters compatible with Navionics charts accept standard and expandable cartridge formats, such as Compact Flash, Multi Media Card or Secure Digital.

Visit the Navionics website at [www.navionics.com](http://www.navionics.com) to access the list of compatible plotters with corresponding product line and media.

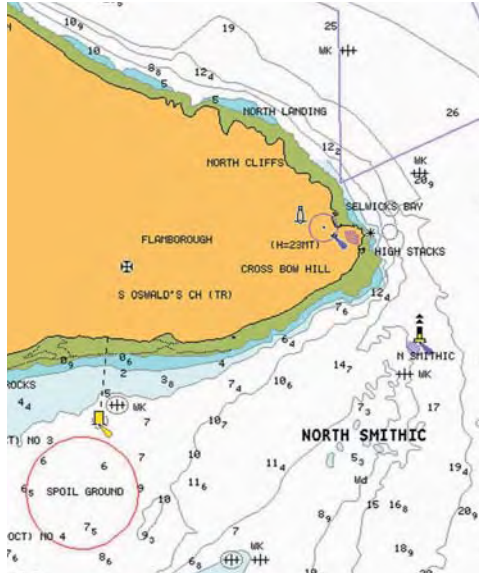
### NAVIONICS GOLD

#### 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, light sectors of lighthouses and real forms and colours of buoys. The boater can select the contour colours to differentiate and identify shallow and hazardous areas as well as difficult-to-anchor, deeper water.

#### KEY FEATURES

- Familiar appearance of a paper chart
- Highly detailed charts
- Intelligent Clarity with IC™
- Navaid's feature Xplain™ clear descriptions
- Superb detail and extended object oriented technology
- Shaded depth contours and spot soundings
- Integral tides and currents database shows tidal heights and speeds
- Port plans and port service guides
- New and updated T&Cs data
- Best fishing & cruising detail. Navigate your way to the best wrecks, only with genuine Navionics charts
- **New exclusive coverage of the Shannon Waterway on 28G**



*Best fishing and cruising detail only with Navionics Seamless uncluttered charts*

### NAVIONICS PLATINUM

#### Electronic Cartography

Navionics Platinum is the first "Multi-dimensional" electronic chart system for marine chartplotters. In recent years, PC-based applications have enabled users to show charts and other ancillary information using various CDs. However the limitations of using a PC on a boat - in particular if you want the information available on the flybridge or in the cockpit, are well known.

Now, Navionics Platinum offers charts with enhanced features such as 3-D bathymetrics, cruising guides, satellite and photographic images and more - all integrated and geo-referenced on a single plug & play cartridge that could not be simpler to use.

Platinum really makes a difference to navigation awareness and enjoyment.



#### KEY FEATURES

- **3-D View** : view depths and elevations in 3 dimensions with optional photo overlay
- **Satellite photo overlay** : allows comparison with chart information improving situation awareness. **Now in colour!**
- **Panoramic pictures** : improve your approach with 15,000 photographs of harbours and marinas
- **Port services & Points of interest** : detailed information - including phone numbers - for port services and points of interest
- **Dynamic Tide & Currents** : Tidal heights, flow speed and direction with graphic indicators
- **Pilot Books** : comprehensive and detailed pilot book information

**ORDER CODES - SEE CHART ON NEXT PAGE**



*3D view with satellite picture overlay*



*Panoramic pictures*

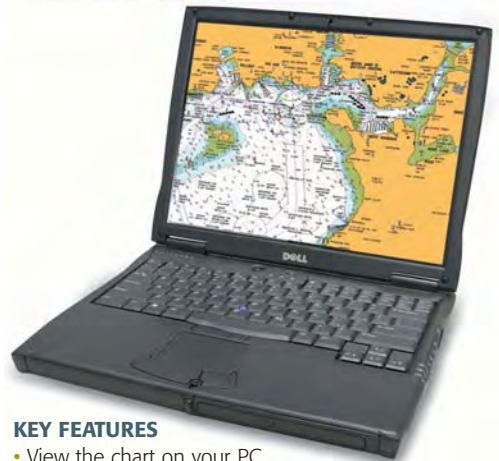


*Satellite photo overlay - now in colour*

### NAVIONICS NAVPLANNER

#### PC-Based Chart Viewing System

NavPlanner is an easy-to-use software package allowing users to plan their navigation on a PC in the comfort of their home.



#### KEY FEATURES

- View the chart on your PC
- Load, create and edit routes, saving them to your chart card
- Transfer data directly from the card to the plotter
- 16 zoom levels, measures distance and bearing, go-to-port function, and many other features

#### SUPPLIED WITH

Includes a USB chart reader and worldwide basemap chart at 32nm zoom level



#### Find out more...

#### Navionics Platinum Awards

Navionics Platinum cartography has received the following industry awards -

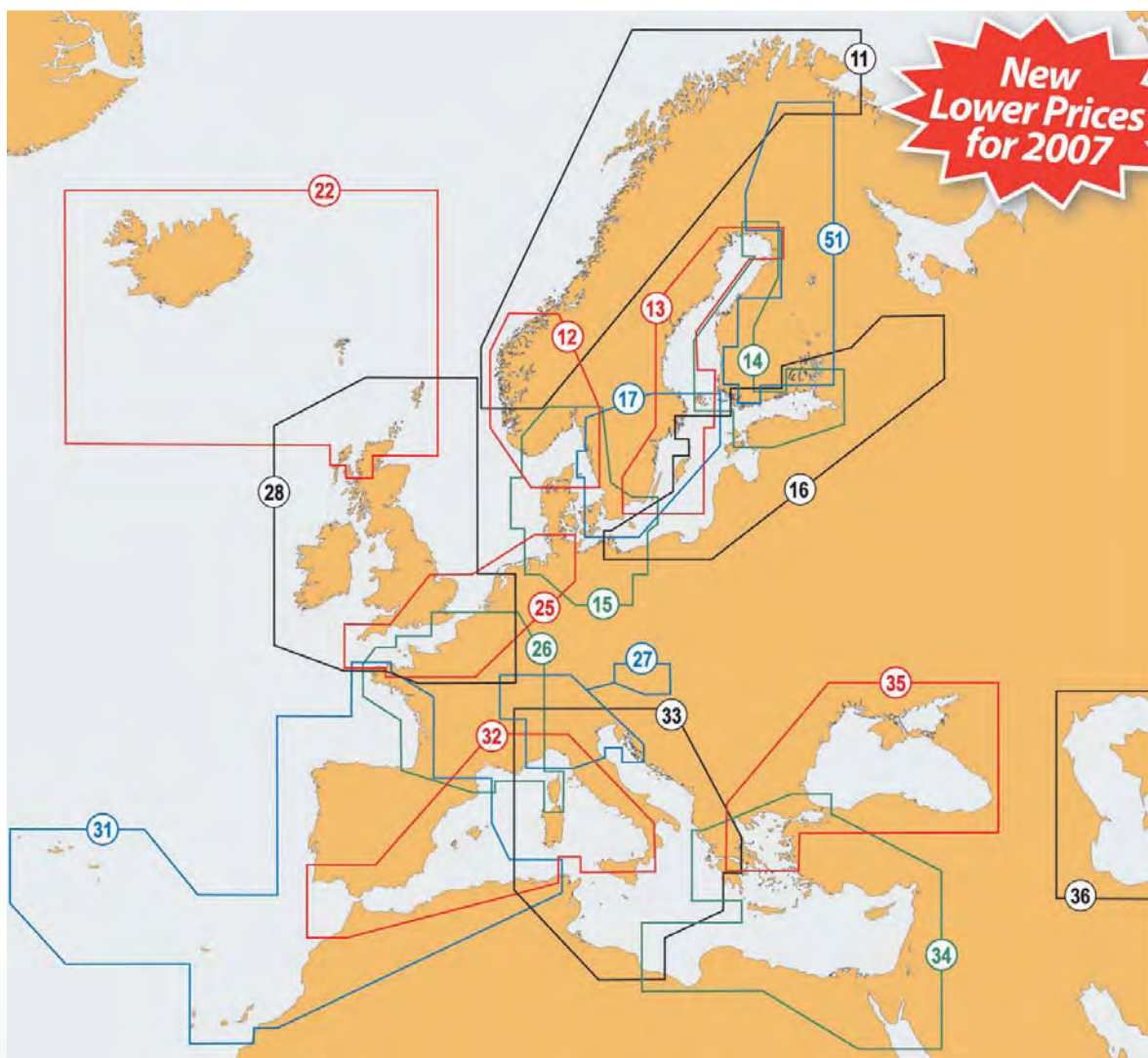


**We accept most major credit and debit cards**



### NAVIONICS GOLD & PLATINUM XL3

#### Europe



Ref	Gold Code	Platinum Code	Description
NORWAY NW	11G	11P	NORWAY N & W. VARANGERFJORDEN TO TRONDHEIM
NORWAY SW	12G	12P	NORWAY S & W. STRANDAFJORDEN TO GOETEBORG TO N. DENMARK
SWEDEN E. COAST	13G	13P	SWEDEN E. COAST AARHUS TO MARTINNIEMI.
FINLAND	14G	14P	FINLAND FROM KARLSBORG TO MUHU
OSLO TO DENMARK	15G	15P	DENMARK, GERMANY, SKAGERRAK, SWEDEN W. DELFZIJL TO SKAGEN TO KOLOBRZEG, FLEKKEFJORD TO OELAND S
S. BALTIC	16G	16P	POLAND, RUSSIA, LITHUANIA, LATVIA, ESTONIA, G. OF FINLAND. RUGEN TO HELSINKI
SWEDEN S	17G	17P	SWEDISH LAKES, S. SWEDEN GOETEBORG TO YSTED TO OREGRUND
ICELAND	22G	22P	ICELAND, FAROES, SHETLANDS, ORKNEYS, HEBRIDES & NW. SCOTLAND FROM KYLE RHEA TO HELMSDALE
UK S. - HAMBURG	25G	25P	S. UK, BELGIUM, NETHERLANDS, S. FRANCE, NW. GERMANY. RIVER CAMEL TO THE WASH & PORTSALL TO FOEHR
FRANCE	26G	26P	ENTIRE FRANCE. NIEUWPOORT TO BREST TO SAN SEBASTIAN & GOLFO DE ROSES
MID EUROPEAN WATERS	27G	-	BODENSEA LAKE. ENTIRE RIVER PO. LAC LEMAN, LAC DE NEUCHATEL, LAC DE BIENNE, LAC DE MORTAT, THUNER SEE, BRIENZER SEE, ZURICHSEE IN SWISS LAKES. PASSAU, LINZ, WIEN & BRATISLAVA IN DANUBE RIVER & NEUSIEDLER SEE. LAGO MAGGIORE, LAGO DI LUGANO, LAGO DI COMO
UK & IRELAND	28G	28P	UK, IRELAND <b>NOW INCLUDING SHANNON WATERWAY</b> , HEBRIDES, ORKNEYS, SHETLANDS, ISLE OF MAN, CHANNEL ISLANDS, NETHERLANDS IJSELMEER & AMSTERDAM TO FRANCE GOLFE DE SAINT-MALO
IBERIA	31G	31P	BISCAY, SPAIN, PORTUGAL, ALGERIA, MOROCCO, STR. OF GIBRALTAR, BALEARICS, CANARIES, MADEIRA, AZORES
MEDITERRANEAN W	32G	32P	ALGERIA, MOROCCO, S. SPAIN, MED. FRANCE, ITALY W. STR OF GIBRALTAR, BALEARICS, CORSICA, SARDINIA, S. SICILY.
C. MEDITERRANEAN	33G	33P	ITALY, ADRIATIC & IONIAN, TUNISIA. DJIDIJELLI TO MISRATAH. CORSICA, SARDINIA, SICILY, MALTA, ITALIAN LAKES, LIGURIAN & TYRRHENIAN SEAS
MEDITERRANEAN E	34G	34P	GREECE, TURKEY, SYRIA, ISRAEL, LIBYA, N. EGYPT. CYPRUS, CRETE, SEA OF MARMARA, AEGEAN SEA, SEA OF CRETE, PELOPONNISOS, N. RED SEA.
BLACK SEA	35G	35P	BLACK SEA, AEGEAN SEA. INC SEA OF AZOV, SEA OF MARMARA.
CASPIAN SEA	36G	36P	CASPIAN SEA
FINNISH LAKES	51G	-	INARIJARVI, PORTTIPAHDAN TEKOJARVI, LOKAN TEKOJARVI, MIEKOJARVI, KEMIJARVI, MOURUJARVI, YLI KITKA, KIANTAJARVI, VUOKKIJARVI, OULUJARVI, NUASJARVI, LENTUA, ONTOJARVI, PIELINEN, KOITERE, HOYTIAINEN, VIINIJARVI, PYHASLKA, ORIVESI, PURUVESI, PIHLAJAVESI, HAU, SAIMAA, PURUVESI, PIHLAJAVESI, HAUKIVE, KALLAVESI, SUVASVESI, JUOJARVI, PUULA, KYYESI, ONKIVESI, PEILAVESI, NILAKKA, PYHAJARVI NEAR IISALMI CITY, KONNEVESI, KOLIMA, KIVIJARVI, KEITELE, PAIJANNE, VUOHJARVI, LANGELMAVESI, VANAJAVESI, LAPPAJARVI, PYHAJARVI

**AVAILABLE FOR OVERNIGHT DESPATCH**

## **i** Important info

### Please Read This First

These pages show the most popular European chart cartridges. All cartridges include every chart available in the area they cover and MAX cartridges also include photographs and tidal flow data for the area they cover.



The MAX Wide and Mega Wide cartridges will **only** work on MAX compatible chart plotters. The C-MapNT+ Wide cartridges will work on **all** NT+ and MAX compatible chart plotters.

Please note that the NT+ Wide cartridges are equivalent in coverage to the NT+ Superwide cartridges sold between 2002 and 2004.



NT+ Standard and SuperWide cartridges are no longer available, but a full range of Local cartridges are available for both MAX and NT+, please contact us for more details.

## C-MAP MAX PC PLANNER PC-Based Chart Viewing System



MAX PC Planner turns a home computer into the perfect navigation planning tool. Chart cartridges can be displayed and waypoints or routes planned on the PC, avoiding the need to waste precious sailing time when you get down to the boat. Whether you want to plan a cruise, study the course of the next race or locating a wreck to dive on, PC Planner lets you do it all and you don't even have to get wet!

### KEY FEATURES

- User friendly interface
- Load and view C-Map chart cartridges on your PC
- Access the enhanced MAX features
- Load, create and edit routes and marks
- Measure distances and bearing
- Manage waypoint databases
- Display and store previous tracks
- Exchange routes and marks with your chartplotter via blank C-Map user cards.

### SUPPLIED WITH

PC Planner software on CD-ROM, USB cable, multimedia cartridge reader

**ORDER CODE - ZCMA020.017**

## C-MAP MAX Electronic Charting System

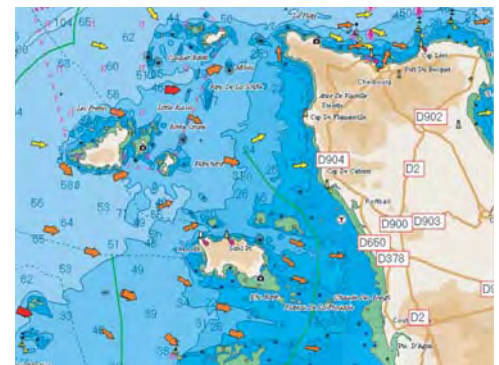


MAX is C-Map's dynamic and interactive chart technology that has revolutionised the way electronic charts look and behave. MAX brings new life to the electronic chart, combining unparalleled levels of chart accuracy and detail, striking presentation and a huge collection of new value added data. Building on the incredible success of C-MapNT+ (winner of the NMEA Best Electronic Charts award for the last 6 years), MAX is set to become the new electronic chart standard and is available on all the best chart plotters.

### KEY FEATURES



Embedded photos & coastal land mapping



Fully animated worldwide tide & current database



Aerial photography of ports and marinas

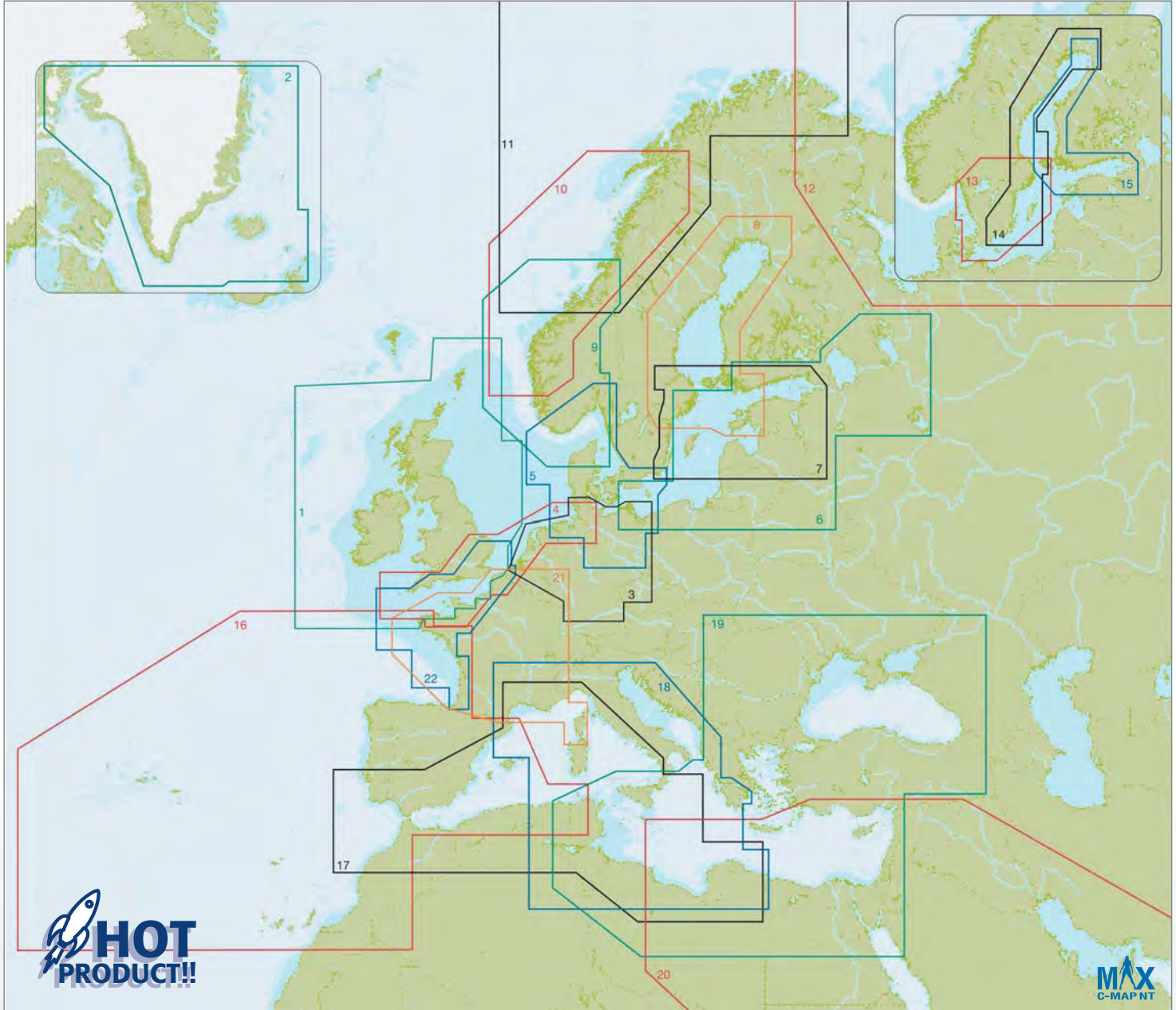


Perspective view - "rolling road" chart display

### C-MAP MAX MEGA WIDE

#### Europe

These charts are available only in the C-Map MAX format.



Ref	Code	Description
1	M-EW-M007	UK & IRELAND
2	M-EN-M009	ICELAND, GREENLAND FAEROE TO SHETLAND
3	M-EN-M013	CENTRAL EUROPEAN INLAND WATERS
4	M-EW-M001	ENGLISH CHANNEL TO HAMBURG
5	M-EN-M004	GERMANY, DENMARK AND SKAGERRAK
6	M-EN-M006	G. OF FINLAND RUSSIAN LAKES AND BALTIC
7	M-EN-M010	GOThLAND TO ST. PETERSBURG
8	M-EN-M012	GULF OF BOTHNIA
9	M-EN-M002	SKAGERRAK TO NAMSOS
10	M-EN-M003	BERGEN TO LOFOTEN ISLANDS
11	M-EN-M001	TRONDHEIM TO KIRKENES

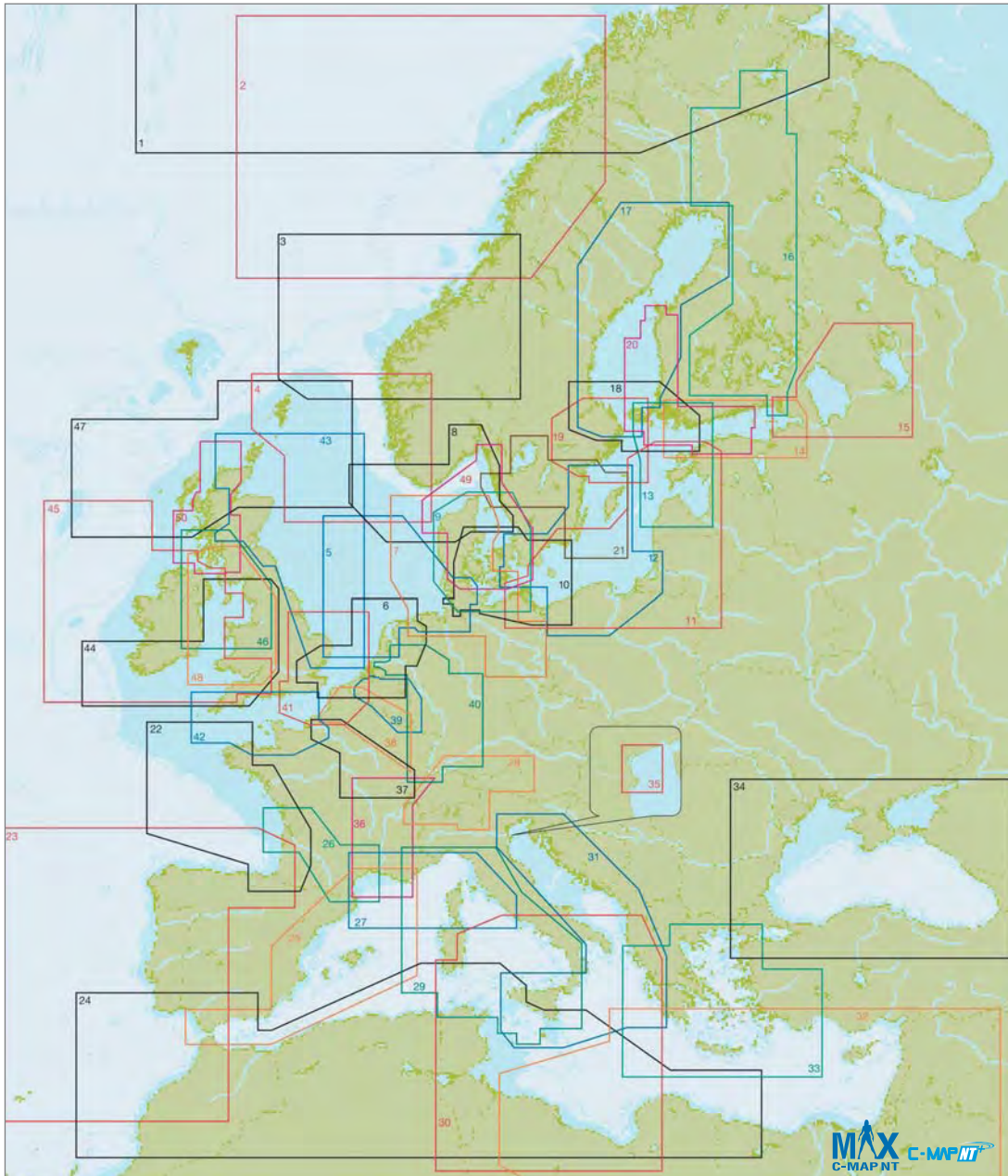
Ref	C-Map MAX Order Code	Description
12	M-RS-M001	RUSSIAN FEDERATION NORTH WEST
13	M-EN-M005	SOUTH SWEDEN INCL. INLAND WATERWAYS
14	M-EN-M008	EAST SWEDEN
15	M-EN-M007	FINLAND
16	M-EW-M005	IBERIAN PENINSULA INC. THE ISLANDS
17	M-EM-M001	WEST MEDITERRANEAN SEA
18	M-EM-M902	CENTRAL MEDITERRANEAN SEA
19	M-EM-M003	EAST MEDITERRANEAN - AEGEAN - BLACK SEA
20	M-ME-M001	MIDDLE EAST - RED SEA - THE GULF
21	M-EW-M004	FRANCE AND BELGIUM INLAND

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

### C-MAP MAX & NT+ WIDE

#### North Europe

These charts are available in C-Map MAX and NT+ formats. Note that the NT+ versions do not include the MAX extras.



Ref	C-Map MAX Order Code	C-MAP NT+ Order Code	Description	Ref	C-Map MAX Order Code	C-MAP NT+ Order Code	Description
1.	EN-C571	EN-M571	VESTFJORDEN TO KIRKENES & SVALBARD	26.	EM-C108	EM-M108	CANAL DU MIDI
2.	EN-C569	EN-M569	NAMSO TO SENJA ISLAND	27.	EM-C101	EM-M101	FRANCE MEDITERRANEAN COASTS
3.	EN-C568	EN-M568	SOGNEFJORDEN TO TOSENFJORDEN	28.	EN-C068	EN-M068	CENTRAL EUROPEAN LAKES
4.	EN-C566	EN-M566	MANDAL TO FOERDE	29.	EM-C994	EM-M994	LIGURIAN AND TYRRHENIAN SEA
5.	EN-C071	EN-M071	IJMUIDEN TO ESBJERG	30.	EM-C995	EM-M995	LOW TYRRHENIAN SEA - TUNISIA - LIBIA
6.	EN-C070	EN-M070	NETHERLANDS AND BELGIUM	31.	EM-C997	EM-M997	ADRIATIC SEA
7.	EN-C159	EN-M159	NORTH GERMANY AND WESTERN DENMARK	32.	ME-C201	ME-M201	N-E AFRICA MED. AND MIDDLE EAST COASTS
8.	EN-C565	EN-M565	SKAGERRAK, GOETHEBORG TO EGBERSUND	33.	EM-C104	EM-M104	AEGEAN SEA
9.	EN-C124	EN-M124	DENMARK	34.	EM-C102	EM-M102	BLACK SEA AND MARMARA
10.	EN-C160	EN-M160	EASTERN DENMARK	35.	EM-C990	EM-M990	LAGUNA VENETA
11.	EN-C706	EN-M706	ESTONIA, LATVIA, LITHUANIA, POLAND	36.	EW-C221	EW-M221	LE RHONE: MARSEILLE TO DIJON
12.	EN-C255	EN-M255	SOUTH EASTERN SWEDEN	37.	EW-C223	EW-M223	LA SEINE: LE HAVRE TO DIJON
13.	EN-C327	EN-M327	NORTHERN BALTIC	38.	EW-C222	EW-M222	FRANCE RIVERS: NORTH
14.	EN-C325	EN-M325	GULF OF FINLAND	39.	EN-C079	EN-M079	BELGIUM INLAND WATER
15.	EN-C604	EN-M604	RUSSIAN LAKES	40.	EN-C072	EN-M072	RIVER RHEIN
16.	EN-C326	EN-M326	FINLAND LAKES	41.	EW-C205	EW-M205	EASTERN ENGLISH CHANNEL
17.	EN-C259	EN-M259	GULF OF BOTHNIA	42.	EW-C201	EW-M201	CENTRAL ENGLISH CHANNEL
18.	EN-C260	EN-M260	AALAND PASSAGES	43.	EW-C214	EW-M214	HARWICH TO ORKNEY ISLANDS
19.	EN-C257	EN-M257	NORRKOEPING TO GAEVLE	44.	EW-C207	EW-M207	BRISTOL CHANNEL AND IRISH SEA
20.	EN-C330	EN-M330	VAASA TO KOTKA	45.	EW-C208	EW-M208	BRISTOL CH. AND IRELAND
21.	EN-C256	EN-M256	INLAND SWEDEN	46.	EW-C202	EW-M202	LLEYNN PENINSULA TO FIRTH OF LORNE
22.	EW-C203	EW-M203	FRANCE ATLANTIC COASTS	47.	EW-C220	EW-M220	SHETLAND, ORKNEYS AND WESTERN ISLES
23.	EW-C204	EW-M204	IBERIAN PEN. ATL. - ACORES AND MADEIRA	48.	EW-C209	EW-M209	IRISH SEA
24.	AF-C201	AF-M201	AFRICA MEDITERRANEAN NORTH	49.	EN-C253	EN-M253	WESTERN SWEDEN
25.	EM-C100	EM-M100	SPAIN MEDITERRANEAN COASTS	50.	EW-C224	EW-M224	SCOTLAND WEST

### KVH TRACPHONE F33

#### Voice, Fax, Email and Internet Access

The perfect solution for leisure craft and small commercial vessels needing worldwide mobile communications in a compact package. Using the power and versatility of Inmarsat's Fleet satellite service, the TracPhone F33 offers the advantages of fast Internet/Intranet connections and global voice services with a small antenna dome.



#### KEY FEATURES

- Uses Inmarsat's powerful Fleet service
- Pay for what you use - no fixed monthly fees
- Mobile Packet Data Service (MPDS) allows "always on" internet connections at up to 35Kbps
- Data service with speeds as high as 9.6Kbps
- Fully compatible with shipboard PABX systems and onboard networks (via IP router)
- Two configurations - compact 14in dome or a version to match your TracVision G4-HP dome.

**ORDER CODE - ZKVH34-3088ASYS**

### KVH TRACPHONE F55

#### Voice, Fax, Email and Internet Access

TracPhone F55 offers all the features of the F33, but provides access to both MPDS and ISDN (per-minute charge) for high-bandwidth voice, video conferencing, and large file transmission.



#### KEY FEATURES

- Data speeds of up to 64Kbps dialup
- 26in dome matches KVH's TracVision G6-HP dome
- Integrated Services Digital Network (ISDN) service for video conferencing and large data transfers at faster speeds

**ORDER CODE - ZKVH34-3086ASYS**

### KVH TRACPHONE F77

#### Voice, Fax, Email and Internet Access



#### KEY FEATURES

- Data speeds of up to 128Kbps dialup
- 33 or 35in dome to match TracVision G8 dome
- Compliant with GMDSS standards
- Compatible with Inmarsat's 4th generation satellites

**ORDER CODE - ZKVH34-3084ASYS**

### KVH TRACVISION G4-HP

#### Satellite TV System

TracVision G4-HP combines the world's leading DVB compatible high-performance marine satellite TV system with KVH's award-winning GyroTrac™ Digital Gyro Compass for unsurpassed satellite acquisition and unparalleled system control. Ideal for virtually any vessel, the system automatically identifies, acquires, and tracks satellite signals from a range of DVB-compatible satellites.

Its high-torque motor is able to overcome up to 12G of force, ensuring that the antenna is pointed at the satellite at all times. Enjoy uninterrupted, crystal-clear digital entertainment with CD-quality sound further offshore and in conditions where competing products just won't work reliably.

European customers have two optional accessories - the KVH Multi-sat Control Panel offering enhanced system and function control and the KVH TracNet 3.0 Mobile Internet Server and exclusive high-speed Internet service.

#### KEY FEATURES

- 18in antenna provides superb open water reception up to 100-200 miles offshore
- 300+ channels including HDTV, Internet data broadcasts and local programming where available
- Automatically switches satellites
- Gyro-stabilised compass tracking system



- Easy-to-use interface and digital tracking software
- Preprogrammed satellite library of popular European and North American services
- Compatible with any high-powered DIRECTV or Digital Video Broadcasting satellite service worldwide
- Requires digibox/decoder

**ORDER CODE - ZKVH02-01-025-0**

### KVH TRACVISION G6-HP

#### Satellite TV System

The G6-HP offers all the features of the G4-HP, but with greater range. Receives satellite TV services throughout Europe, North America, Mexico, South America, Southern Mediterranean, Australia, New Zealand, Middle East, the Red Sea, and East coast of Africa

#### KEY FEATURES

- 26in dome
- Includes Advanced Digital Control Unit
- Auto satellite switching
- Requires digibox/decoder



**ORDER CODE - ZKVH02-01-032-0**

### KVH TRACVISION G8

#### Satellite TV System

Ultimate superyachts and large vessel performance!

#### KEY FEATURES

- 35in dome
- Automatic skew control
- Carbon fibre antenna
- 3-axis fibre optic gyro stabilisation
- High-speed internet compatible
- DVB tracking
- Background scanning for automatic satellite updates
- Requires digibox/decoder



**ORDER CODE - ZKVH02-01-039-0**

### KVH TRACVISION M3

#### Satellite TV System

The world's smallest, fully stabilised mobile satellite television antenna system. Ideal for boats as small as 25ft, the M3 gives crystal-clear reception and coverage comparable to 18in antennas. Everything you need comes in one single box - antenna, receiver, RF remote, all ready to connect to your boat's 12V power supply and TV.



#### KEY FEATURES

- Advanced, super-efficient 14.5in antenna
- Great offshore coverage (100-200 miles)
- Fast, powerful, ultra-quiet motors
- Fully automatic satellite acquisition
- Supports multiple receiver/TV installations
- Requires digibox/decoder

**ORDER CODE - ZKVH02-01-100-0**

### KVH TRACVISION 4-HP & 6-HP

#### Satellite TV System

A lower cost option, the Tracvision4 and Tracvision6 satellite TV systems offer the same coverage and features as the G4 and G6 but without the gyrocompass.

This means that they are slower to lock on and there's no automatic changeover between regions, but they're an ideal option for boats that stay within the same region - eg on powerboats in the South of France.



**ORDER CODE 4-HP - ZKVH02-01-006-0**  
**ORDER CODE 4-HP - ZKVH02-01-008-0**

### NOBELTEC VNS VERSION 9.0

#### Visual Navigation Suite Software



Powerful yet simple navigation, VNS 9.0 features real-time vessel positioning, quilting for seamless chart integration, distance and bearing to target, unlimited route and waypoint creation, GPS upload/download, night vision, integrated ETA calculator, autopilot support, Chart Table, Planbook, and the Nobeltec RouteWizard.

New features for version 9 include support for native GRIB format weather files; One NavInfo panel for easy display of important data; Strip Charts (a histogram for quick analysis of incoming data) and a GPS/Trip Navbar to monitor GPS signal strength and track distance travelled. Passport planning charts and low-resolution 3D Bathymetric Maps come free with VNS 9.0 at no extra charge.



#### KEY FEATURES

- New hand panning tool
- Compatible with a wide range of vector, raster and photo chart formats
- Customisable toolbars and console
- Powerful place and name search tool
- Course up chart rotation and 3D navigator
- Split screen display for multiple chart viewing
- Tide and current overlays - tides software included
- AIS target tracking
- DSC radio polling and tracking
- DirectX enabled video camera input

ORDER CODE - ZNOBRSVFG0008

### NOBELTEC ADMIRAL VERSION 9.0

#### Navigation Software



The most powerful electronic charting solution available, Admiral builds on the success of the award winning Visual Navigation Suite by adding advanced features designed to solve navigation challenges in an entirely new way. Advanced features include vessel scaling and Vessel Management System software.

New features for version 9.0 include - AIS filtering; native GRIB format Weather Support (OCENS WeatherNet pre-installed, requires an annual license fee and per usage charges); up to 4 NavInfo panels for easy display of important data; Strip Charts (a histogram for quick analysis of incoming data) and a GPS/Trip Navbar to monitor GPS signal strength and track distance traveled.

Passport planning charts and low-resolution 3D Bathymetric Maps are supplied at no extra charge. Like all Nobeltec products, Admiral supports all popular electronic chart formats including Passport World Charts and Passport Deluxe.



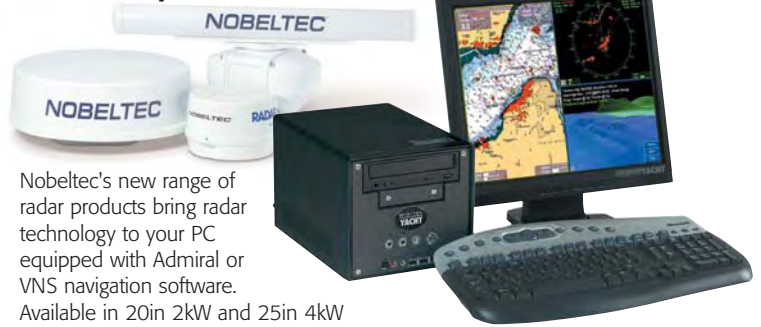
#### KEY FEATURES

- All the features of Nobeltec VNS Version 9.0
- New hand panning tool
- Display Admiral on up to seven monitors using a single computer
- GlassBridge Network - create a complete navigation network using multiple computers sharing NMEA data, radar overlay, nav objects and Passport Charts
- Track line colouring
- Comprehensive radar target tracking (requires InSight Radar box)
- Dual radar support
- Display up to four video camera feeds

ORDER CODE - ZNOBRSAFG00013

### NOBELTEC INSIGHT RADAR2

#### PC Radar System



Nobeltec's new range of radar products bring radar technology to your PC equipped with Admiral or VNS navigation software.

Available in 20in 2KW and 25in 4KW radome style antennas as well as a range of open arrays from 4-25KW, PC radar technology is now available for all sizes of boat. 4KW and larger units connect via an ethernet interface and support a stunning 1024 x 1024 resolution and 8 colour resolution. The 2KW unit connects via USB for easy plug and play installation.

#### KEY FEATURES

- Full screen radar (PlanView), radar overlay and splitScreen mode
- Off-centering Radar mode
- Auto-ranging, Auto-gain, Auto-sea clutter
- Pulse Control
- MARPA facility with Admiral software
- Save and store radar images to your PC's hard drive

#### SUPPLIED WITH

Radar antenna, IR2 Black Box, VNS or Admiral navigation software, 10m radar cable, Ethernet crossover cable

ORDER CODES - CALL FOR DETAILS

### NOBELTEC SAILING PLUS PACK

#### Performance Module

Comprehensive cruising and performance feature pack for sailors, regardless of your skill or experience level - whether part of a world-class racing crew or simply looking to improve your cruising skills

#### KEY FEATURES

- Ockam, B&G or NMEA input
- Polar file instantly updated as you sail
- Display polar targets and actual performance
- On-screen indicators - laylines, reverse laylines, over-the-chart wind indicators
- Inbuilt Strip Chart analysis tools



ORDER CODE - ZNOBSPPK

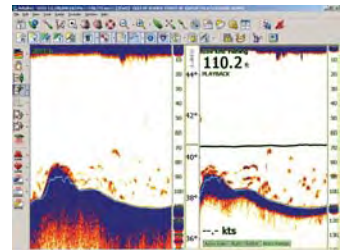
### NOBELTEC INSIGHT SOUNDER

#### PC Sounder System

Superior performance and features for the integrated PC navigation system, providing exceptional target and bottom detail and a wealth of features. The InSight Sounder integrates with both Nobeltec Admiral and VNS 7.1 and higher to create a complete sounder/chart plotter solution.

#### KEY FEATURES

- Dual frequency operation
- Temperature display
- Range, gain and shift settings
- Unlimited custom colour schemes
- Night and twilight vision support
- Shallow water alarm
- View chart & sounder in SplitScreen mode or in a single window with VNS/Admiral



ORDER CODE - ZNOBNTHE5000

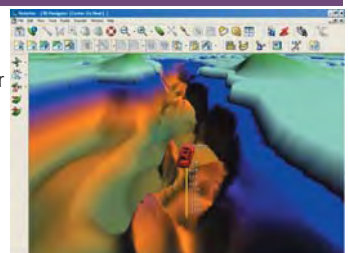
### NOBELTEC BATHY RECORDER

#### PC Bathymetric Recorder

Bathy Recorder, sold as a Plus Pack for VNS and Admiral, enables you to record sea floor topographic information using your depth sounder and incorporate it into your charts. The sea floor data will constantly improve with repeat trips over the same routes.

#### KEY FEATURES

- Customise your sea floor charts
- Custom Contour - create your own sea floor contours
- 2D and 3D display of data



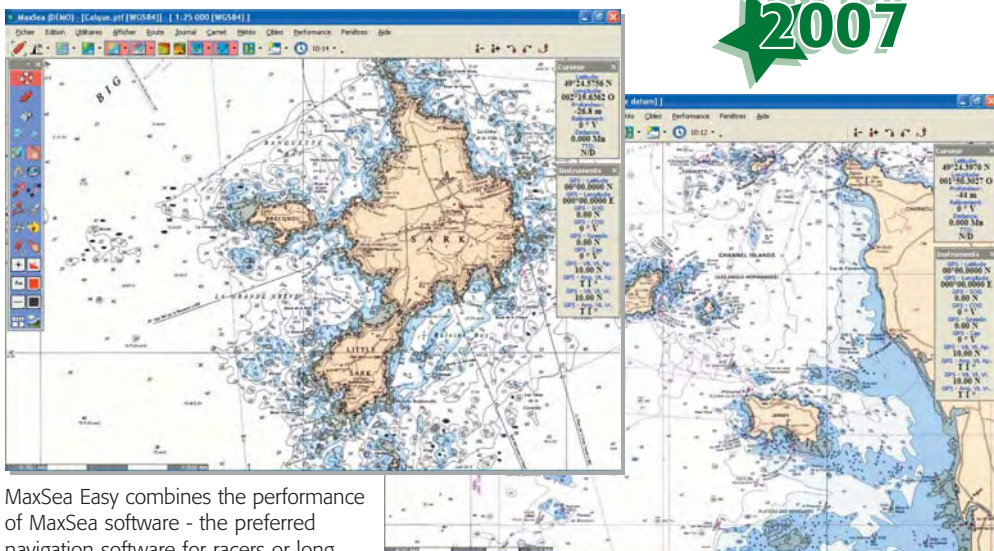
ORDER CODE - ZNOBRSBXX00002



### MAXSEA EASY

#### Marine Navigation Software

**NEW FOR 2007**



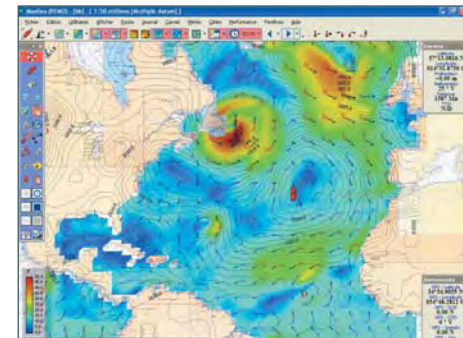
MaxSea Easy combines the performance of MaxSea software - the preferred navigation software for racers or long distance cruisers - with MapMedia high quality nautical raster charts included. Plug and Play, the software and cartography are quick and easy to install. Moreover, the system is easy to use thanks to its intuitive operation.

MapMedia Raster cartography is an exact copy of official National Hydrographic Office paper charts - a guarantee of extreme precision, quality and security, with the familiar graphic style of paper cartography. With a library of more than 6000 nautical charts, MapMedia offers large coverage worldwide. For each specific zone, MapMedia cartography contains all charts and details, from large scale to detailed harbour charts.

#### KEY FEATURES

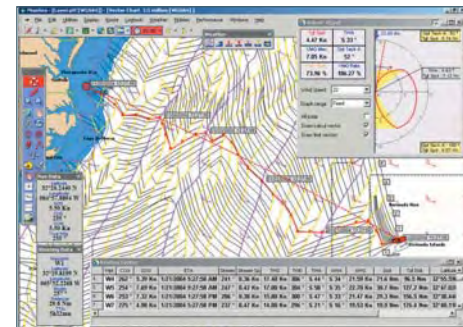
- MaxSea software new version (V.12.6)
- Easy to install and use
- Seamless chart navigation and plotting
- Routes and Waypoints
- Free weather forecasting
- Tracks
- Tides
- Add features with optional modules (see below)

#### WEATHER FORECASTING KEY FEATURES



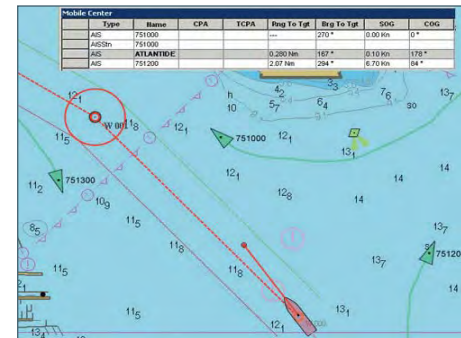
- Receive forecasts via e-mail for the next 15 days, free of charge, and overlay it on to the chart
- Data updated every 6 hours - accurate data helps maximise safety and plan efficient voyages
- Also compatible with precise data from Meteo France and Meteo Consult

#### ROUTING MODULE KEY FEATURES



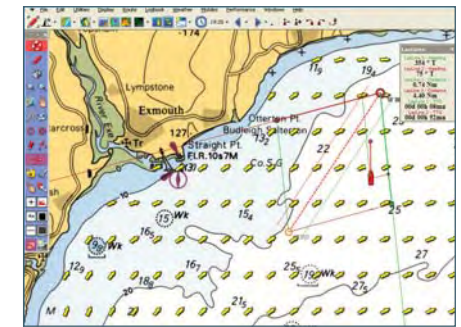
- Used by the world's most experienced mariners
- Uses the isochrones method to automatically calculate routes clear of strong winds or high swells
- Route calculation using weather forecasts and the boat's specific polar performance characteristics

#### AIS MODULE KEY FEATURES



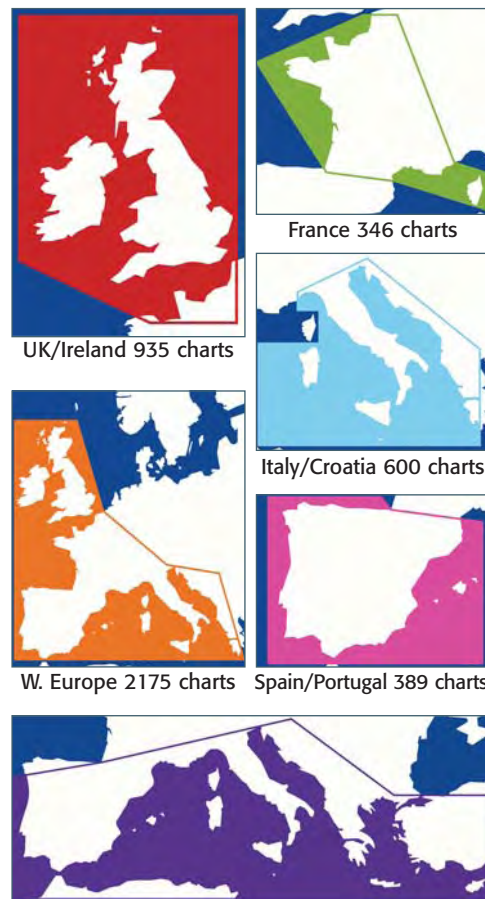
- Essential tool in busy shipping lanes or fog
- Vessel position plotted directly on chart
- Information includes name of vessel, position, destination, cargo and number of people on board
- Locate vessels and predict collision situations
- Compatible with third party AIS receivers

#### PERFORMANCE MODULE KEY FEATURES



- Graphic display of wind data on the chart
- Laylines shown directly on chart
- Takes into consideration the specific performance characteristics of your boat

**ORDER CODES - CALL FOR DETAILS**



- France 346 charts
- UK/Ireland 935 charts
- Italy/Croatia 600 charts
- W. Europe 2175 charts
- Spain/Portugal 389 charts
- Mediterranean 1594 charts



### A closer look...

#### Navigation made simple

MaxSea is its easy to use thanks to the simple 'tool palette', which gives direct access to 90% of MaxSea's functions -

To save Event and activate Man Over Board		
To activate and stop tracking		(* optional feature)
To activate and stop PBG Personal Bathing Generator (*)		
To change Radar range in (*)		To change Radar range out (*)
To change Radar range in (*)		
Zoom In		Zoom Out
To change chart scale		To pan charts and access chart data
To calculate headings, distances & EBL/RM		To take bearings
To pick a quick route or activate a route		To build a route
To insert a waypoint or a point in a line		To Cut a line or track in two parts
To select and move an object, point or waypoint		To remove information
To Plot waypoints, marks, lines, areas or text		To select and display information about a specific object
To choose plotting object type		To choose plotting symbol
To choose plotting font size		To choose plotting color
To choose plotting line width		To choose plotting pattern
To select Chart Desktop mode		To select day, dusk or night color mode

### DIGITALYACHT CF50

#### Ultra Compact 12v Marine PC

The CF50 is one of the most compact PC systems in the world, but unlike many other compact PCs, it uses a genuine Intel M processor for ultra-reliable and powerful computing and is designed to work with Windows operating systems. It is ideal for electronic charting, navigation and communication and its fast graphics processor means quick redraws of electronic charts.

#### KEY FEATURES

- Ultra compact - measures only 255 x 165 x 70mm
- Runs from the boat's 12v supply - no inverters or power supplies required
- USB, Firewire/IEEE 1394a, RS232/NMEA serial, 10/100 Ethernet and VGA monitor port
- Intel M processor, Windows compatible
- DVD/CD-RW drive

#### SUPPLIED WITH

CPU only - monitor, keyboard and mouse must be ordered separately

**ORDER CODE - ZDIGCF50-1**

**HOT PRODUCT!!**



### DIGITALYACHT CF100

#### Marine PC

Compact, powerful and reliable, the CF100 is your onboard navigation hub. It makes real economic sense - a single unit provides navigation, communication and weather at an incredibly attractive price, less than the average cost of a standard dedicated 15in colour chart plotter. The bundle pack includes everything you need to get started - even an interface cable.

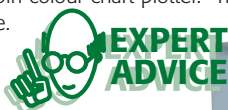
#### KEY FEATURES

- Measures just 200x180x280mm
- Powerful Intel 3GHz processor
- 256Mb RAM, 80Gb ultra-rugged hard drive
- CD/DVD drive

#### SUPPLIED WITH

Standard package - DC power pack, 15in LCD display, Windows XP Home, Winchart charting software, DVD playback software, cordless keyboard and mouse, NMEA GPS interface cable

**ORDER CODE - PLEASE CALL**



### DIGITALYACHT CF200

#### Marine PC

For the serious marine PC user, the CF200 features dual monitor support using a high resolution graphics card, inbuilt wireless network access (ideal for Internet access in Wi-Fi equipped marinas) and a total of 5 serial ports allowing multiple NMEA, AIS and instrument inputs.

#### KEY FEATURES

- All the features of the CF100
- Powerful Intel 3GHz processor
- 512Mb RAM, 80Gb ultra-rugged hard drive
- CD-RW/DVD drive

#### SUPPLIED WITH

CD-RW/DVD drive and CD creation software. Monitor, keyboard etc must be specified separately.

**ORDER CODE - PLEASE CALL**



### AQUAMEDIA AM100 & AM110

#### Marine MediaCenter PC System

DigitalYacht's AquaMedia system is ideal if you're looking for an all in one onboard navigation, communication and entertainment system. The AM100 is supplied pre-set up with Windows MediaCenter edition, CD-RW/DVD drive and a digital TV tuner with remote control. The AM110 has the same specification, but with an analogue TV tuner.

Watch TV, listen to music, play movies and the latest games, plot your next route, download a weather chart or the newest synopsis - all of this and more is possible with a powerful system such as this.

#### KEY FEATURES

- Powerful Intel 3.0GHz
- Digital (AM100) or analogue (AM110) tv tuner
- 512Mb RAM, 160Gb ultra-rugged hard drive
- CD-RW/DVD drive
- Powerful ATI9200 graphics card

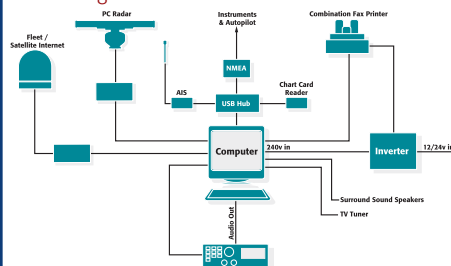
**ORDER CODE - PLEASE CALL**



### A closer look...

#### Boats & PCs - do they mix?

There is a lot to be said for having a PC on board your boat - many companies are now producing a wide range of applications for the high tech boat owner.



Typical onboat PC hub installation

#### Charting

With high quality charts available on CD-ROM or via a card reader, coupled with powerful navigation software such as Raymarine's Raytech or MaxSea and your PC becomes a fully featured chartplotter and navigation centre.

#### Weatherfax

A few years ago, satellite weather images beamed directly to your boat belonged to the realms of the professional offshore racing yacht or a luxury superyacht. Now affordable software packages allow you to link your PC to a SSB or Satphone and download up to the minute weather charts and forecasts for your area to view on screen or output to printer.

#### Communication

With affordable Satcom systems like Iridium and new developments such as "always on" satellite broadband internet access, you can stay in touch virtually anywhere in the world.

#### The floating office

If you don't spend as much time on your boat as you would like because there's always that important report to finish for Monday morning, think of the advantages of having a powerful, reliable PC on board. Run all your favourite applications and finish that spreadsheet while en-route to your favourite anchorage.

#### What about power?

DigitalYacht's new CF50 runs off the boat's 12v system. However if you have to fit an inverter, it can also run a wide range of household appliances on board. Mastervolt make a wide range of stable sinewave inverters in a variety of power outputs - ideal for sensitive equipment such as computers. With fast switchover circuitry, you can change from battery to shore power and back again without the PC even noticing.

### DIGITALYACHT RF200

#### Rack Mount PC System



DigitalYacht also offer rack mount PC installations to suit installations on larger boats and commercial applications. Call us to discuss your requirements.

### DIGITALYACHT IB70

#### Integrated Radar and Electronic Charting System

DigitalYacht's new IB70 series brings professional electronic charting from commercial "glass bridge" systems to the leisure marine market. Running an embedded version of Nobeltec's award winning VNS navigation software, the IB70 will boot straight into the VNS navigation screen - it even saves all your favourite settings every time you switch on.

IB70 systems comprise a CF50 black box processor, CU50 control keypad and TF615 sunlight viewable LCD display. There are three choices of radar antenna ranging from a compact 20in 2kw unit to a 4.5ft 4KW open array. Also included are a high performance AIS receiver and 4 port NMEA multiplexer, providing up to 3 channels of NMEA instrument or GPS data - connect to any compatible NMEA1083 instrument, GPS or autopilot.

IB systems are based around standard but highly ruggedised and embedded PC architecture. That means you can use your IB70 system for other applications like video playback, browsing the web or weather fax decoding. It also makes it easy to upgrade, as it can be set to update when connected to the internet.

#### KEY FEATURES

- Intel 1.5GHz processor 256Mb RAM
- 32Mb graphics processing
- 40Gb ultra rugged hard drive
- High resolution, 15in sunlight viewable LCD display, 1042 x 768 pixel resolution
- 4 x NMEA0183 input ports and NMEA0183 data out
- Optional NMEA2000 interface
- Optional high speed solid state rate gyro for north up and overlay display stabilisation
- Support for IP video camera source
- See Nobeltec page for VNS features



### DIGITALYACHT IB70 RADAR

#### Radar Antenna Options



Choose from 2 or 4kW radome or a 4kW open array with an amazing 1.8° horizontal resolution. All units feature a range discrimination of 25m or better, 3 pulse lengths for exceptional performance and are supplied with a 10m interconnect cable. The 2kW unit connects via a high speed RS422 interface and the 4kW units via a 10/100Mb ethernet connection.

#### SYSTEM SPECIFICATIONS

- **IB72** - 2kW 20in radome, 30rpm scan speed, 24NM range. 30W max power consumption. 4.7° horizontal / 25° vertical beamwidth
- **IB74** - 4kW 25in radome, 24rpm scan speed, 36NM range. 55W max power consumption. 3.9° horizontal / 25° vertical beamwidth
- **IB76** - 4kW 4.5ft open array, 24/48rpm scan speed, 48NM range. 70W max power consumption. 1.8° horizontal / 22° vertical beamwidth

**ORDER CODE IB72 SYSTEM - ZDIGIB72**  
**ORDER CODE IB74 SYSTEM - ZDIGIB74**  
**ORDER CODE IB76 SYSTEM - ZDIGIB76**

### DIGITALYACHT CU50

#### IB70 Control Keypad



Designed for flush mounting, the CU50 full function control unit is waterproof to IP65 and controls cursor movement as well as offering a full keyboard for speedy waterproof data entry - no more irritating incrementing and decrementing of buttons!

#### KEY FEATURES

- Waterproof
- Night illumination
- Suitable for left or right handed operation
- Supplied with IB70 system packages

### DIGITALYACHT SLR50

#### IB70 AIS Receiver



The SLR50 is a single channel black box AIS receiver, great for positive target discrimination and anti collision. For very busy waters or professional applications, the dual channel SLR200 is recommended.

#### KEY FEATURES

- Display vessel data such as name, MMSI number, course, speed, cargo, destination and more
- Alternates between 161.975Mhz and 162.025Mhz every 36 seconds
- Plot vessel positions live on the IB70 chart display
- Supplied with IB70 system packages

### DIGITALYACHT IB30

#### Chartplotting System

With an easy to mount 15in 1024 x 768 pixel LCD display and separate chart controller, the IB30 offers large screen chart plotting at an affordable price



#### KEY FEATURES

- C-Map MAX charting for unprecedented detail
- Easy menu operation
- Course up or north up display modes
- Tidal currents display
- 3D perspective view
- Aerial photo capability
- 12v DC operation

**ORDER CODE - ZDIGIB30**

### DIGITALYACHT GPS105

#### GPS Sensor

The optional GPS105 is a high performance 12 channel WAAS/EGNOS enabled GPS. Thanks to an advanced receiver, typical accuracy is 3-5m. The IB70 series will allow up to three GPS receivers to be connected so position data can be switched between them.



#### KEY FEATURES

- 12 parallel channel GPS
- WAAS/EGNOS enabled
- Typical accuracy less than 5m

**ORDER CODE - ZDIGGPS105**

### DIGITALYACHT PROLITE SERIES

#### LCD Monitor



Compact and lightweight colour LCD monitors that complements the DigitalYacht system. Available in 15in, 17in and 19in screen sizes.

#### KEY FEATURES

- Inbuilt stereo speakers
- Free standing or flush mountable
- Optional adjustable mounting arm

**ORDER CODE PROLITE 115 - ZDIGS115**  
**ORDER CODE PROLITE 117 - ZDIGS117**  
**ORDER CODE PROLITE 119 - ZDIGS119**



**Find out more...**  
**About Nobeltec VNS -**

page 40

### STANDARD HORIZON GX1500E

#### Fixed DSC VHF Radio

Boat Owner

Compact VHF for small craft such as RIBS and sports boats, yet still ideal for larger boats. It has one of the largest displays in a radio of this size, with a big rotary channel selector knob. 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 separate onboard locations.



#### KEY FEATURES

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

#### ALSO CONSIDER

- Icom M421, Raymarine Ray54E, Navman 7100

ORDER CODE - ZSTAGX1500E

### STANDARD HORIZON GX3000E

#### Fixed DSC VHF Radio

Class D DSC transceiver with a large display and a rotary channel selector. A powerful 30W loud hailer is integrated offering listen back, fog signalling and other features and the 2.25in audio speaker delivers a 4.5 Watt output, even in the poorest conditions.



#### KEY FEATURES

- All the features of the GX1500E
- Compatible with up to two CMP25B or the new VH-310 remote microphones - turn the GX3000E into a full function dual-station radio
- Position, date and time displayed when interfaced with a GPS or chart plotter
- Privately poll and display another vessel's position
- Waterproof front panel (IPX7)

ORDER CODE - ZSTAGX3000E

### 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. Additional features include intercom from the VH-310 to the connected radio and other remote microphones.



#### KEY FEATURES

- Compatible with VM3500E, GX1500E & GX3000E
- 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

ORDER CODE - ZSTAVH310

### STANDARD HORIZON VM-3500E

#### Fixed DSC VHF Radio

Features oversized knobs for easy control of volume, squelch, channel and other radio and DSC functions. The 560mm internal speaker is loud enough to be heard over engine and background noise.

The large display shows GPS position, Speed Over Ground and Course Over Ground. The radio can also poll and display another vessel's position and on the display of any current Standard Horizon chartplotter.

An inbuilt 30W loud hailer with 4 pre-programmed fog signals and listen back. The optional CMP25B and VH-310 remote microphones operate as fully functional second station and intercoms.

#### KEY FEATURES

- Submersible (IPX7 front panel)
- Large illuminated alphanumeric display and keypad
- Channel name display (12 character)

#### ALSO CONSIDER

- Icom M603, Raymarine Ray240E, Simrad RS86/RS87

ORDER CODE - ZSTAVM-3500E



### STANDARD HORIZON CMP25B

#### RAM+ Second Station Mic

Boat Owner

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

- Compatible with VM3500E, GX1500E & GX3000E
- Control all VHF functions including PA, foghorn and DSC
- Inbuilt distress alert button
- Display shows channel names and repeats GPS information

#### SUPPLIED WITH

Bulkhead socket assembly, mounting clip

ORDER CODE - ZSTACMB25B



### STANDARD HORIZON HX270E

#### Waterproof Handheld VHF Radio

This compact, rugged submersible handheld VHF features all International, USA and Canadian channels and a highly legible LCD display with automatic backlight. The preset key allows you to recall the 8 most frequently used channels. Standard Horizon are so confident of the HX270E'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 during that period.

#### KEY FEATURES

- Dual Watch
- Battery charge level indicator
- 1400mAh NiMH battery provides 16hr duty cycle
- Standard three year guarantee

#### SUPPLIED WITH

Alkaline battery tray, 1400mAh NiMH battery pack, 12v overnight charger and belt clip

#### OUR VERDICT

A popular, competitively priced unit built to a very high standard. Its rugged design, large display and features make it one of our recommended buys.

ORDER CODE - ZSTAHX270E

EDITOR'S CHOICE



### STANDARD HORIZON HX500E

#### Waterproof Handheld VHF Radio

Submersible handheld VHF that adds to the features of the HX270E with the option of using external speaker microphones and headsets via the waterproof accessory socket.



#### KEY FEATURES

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

#### SUPPLIED WITH

1400mAh NiMH battery pack, 12v overnight charger, cigarette lighter cable, belt clip

ORDER CODE - ZSTAHX500E



# Standard Horizon

## Chartplotters

**WHERE ARE THE PRICES?**  
TURN TO BACK PAGE

### STANDARD HORIZON CP180

5in Chartplotter



Boat Owner  
BEST ON TEST

NEW FOR 2007

NOW WITH AIS

The superb CP180 sets new standards for small chartplotters. With a high resolution sunlight-viewable display it's packed with features normally reserved for much bigger, more expensive units including AIS integration - connect an AIS receiver to display position, speed and course of commercial vessels directly on the chart screen!

**KEY FEATURES**

- External or internal GPS antenna
- 600 waypoints, 20 routes
- 2nm worldwide basemap
- C-Map MAX and NT+ compatible
- Customisable data windows
- VHF DSC polling capability
- Optional FF520 black box fishfinder input
- Compatible with VM3500E, GX1500E & GX3000E VHF radios
- AIS integration
- 3 year warranty

**SUPPLIED WITH**

12 channel GPS, mounting bracket, flush mount kit

ORDER CODE (EXT ANTENNA) - ZSTACP180E

ORDER CODE (INT ANTENNA) - ZSTACP180I



### STANDARD HORIZON FF520

Fishfinder Module



New black box fishfinder module that can be added to the CP175C, CP180 or CP1000C chartplotters, transforming them into combination Chartsounders with split screen display.

**KEY FEATURES**

- Dual frequency 50/200kHz
- Fish symbols or coloured echo
- Up to 4 x zoom
- White line helps distinguish between fish and the seabed
- Inbuilt Sensitivity Time Control reduces or eliminates surface clutter
- Fish alarms
- Choice of transducers - Xducer ID detection system automatically selects the power output and configures the parameters to suit the transducer

**SUPPLIED WITH**

Transducer supplied separately and must be specified

ORDER CODE - ZSTAFF520



Find out more...

About C-Map MAX -

C-Map

pages xxx

### STANDARD HORIZON CP1000C

10.4in Chartplotter



NOW WITH AIS

If you like the great features and unbeatable price of the CP175C but want a bigger display, then the CP1000C is the answer with its superb 10.4in sunlight-viewable TFT 256 colour screen. Compatible with the FF520 Fishfinder module and the GX1500E, GX3000E and VM-3500E VHF radios.

**KEY FEATURES**

- 10.4in sunlight viewable TFT colour display
- AIS integration
- Two video inputs allow connection of a camera or even a DVD player

**SUPPLIED WITH**

12 channel GPS, mounting bracket, flush mount kit



ORDER CODE - ZSTACP1000C

### STANDARD HORIZON CP175C

5.75in Chartplotter



NOW WITH AIS

Great value 5.75in 256 colour sunlight viewable GPS Chart Plotter offering the features and display quality of much higher priced units

**KEY FEATURES**

- Easy to use
- Celestial information
- Port Services and detailed tide information
- AIS integration
- Compatible with FF520 Fishfinder module
- Compatible with VM3500E, GX1500E & GX3000E VHF radios
- 3 year warranty

**SUPPLIED WITH**

12 channel GPS, mounting bracket, flush mount kit

ORDER CODE - ZSTACP155C

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

**ICOM IC-M71****Handheld VHF Radio**

The successor to the immensely popular IC-M1EuroV builds on the ground breaking achievements of its predecessor by setting new standards in design, waterproofing and battery technology. A durable and rugged body provides for user-friendly operation and long life, and advanced waterproof protection to 1.5m depth for 30 minutes (equivalent to IPX8 rating) is a first for the market place.

The IC-M71 is the first VHF marine handheld to feature output power of 6 Watts, and it uses a bridge-tied load (BTL) audio amplifier to increase the audio output power. Its internal speaker delivers a loud 600mW audio output with clear sound even in noisy environments. In addition, "AquaQuake", a water draining support 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

**ORDER CODE - ZICOM71****ICOM IC-M33****Buoyant Handheld VHF Radio**

Icom unveils the world's first marine VHF transceiver that floats in water. This revolutionary new radio has been designed to be easy to use and is supplied as standard with a 980mAh Li-Ion battery pack provides 9 hours of operating time. The ergonomic design of the case means it's easy to hold and use, even with gloved hands and as with all Icom handhelds, it features a large, easy to read backlit LCD which clearly shows all necessary information. Another innovative feature is the "AquaQuake" draining function - a vibrating sound from the loudspeaker clears water away from the speaker grille.

**KEY FEATURES**

- The world's first buoyant 5W VHF marine transceiver
- IPX7 waterproof protection - 1m depth for 30 minutes
- Li-Ion battery and charger standard
- Optional HM-165 waterproof speaker-microphone
- 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
- Instant access to Ch 16 or programmable call channel
- Optional battery case for using with alkaline cells (The IC-M33 still floats when this battery case is connected)

**SUPPLIED WITH**

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

**ORDER CODE - ZICOM33****ICOM IC-M87****Handheld VHF/PMR Radio**

Tough, waterproof radio with large, backlit LCD. Simple to operate, even when wearing gloves. Self check function monitors unit temperature and battery voltage.

**KEY FEATURES**

- Simple add/delete TAG scanning operation
- Automatic scan function
- 2 step power saver
- 5 Watts output power
- 22 free PMR channels
- Key lock function
- Optional AA battery case
- Optional speaker mic
- Wide range of audio accessories

**SUPPLIED WITH**

Li-Ion battery pack, charger, belt clip and hand strap

**ORDER CODE - ZICOM87.001****ICOM PCR1500****PC Receiver**

PC-based radio scanner that connects to your PC via USB, providing wide frequency coverage from 10kHz to 1300MHz with SSB, CW, AM, FM and WFM modes. Ideal for receiving weatherfaxes etc if you don't have an SSB transceiver.

**KEY FEATURES**

- Choose the screen you want to operate from - Communication Receiver, Component Style, Compact Screen
- Monitor 25 channels on the screen at a glance
- Unlimited number of memory channels

**ALSO AVAILABLE**

- **R1500** - connect to PC or control via remote head, high speed scanning (60 channels/sec), various noise reduction features which provide clearer receiver sound

**ORDER CODE PCR1500 - ZICOPCR1500****ORDER CODE R1500 - ZICOR1500****Don't forget...****V'Tronix Antennas & Fittings**

You've bought a new radio, but is your antenna past it? Remember - a poor antenna = poor performance!

**YHK**

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
- 6m cable
- PL259 plug

**RV120 / RV120-P**

1.4m GRP Antenna

- Ideal for smaller power boats and workboats
- 6m cable
- PL259 plug
- Stainless steel ferrule (RV120)
- Polycarbonate ferrule (RV120-P)

**RV240**

2.4m GRP Antenna

- Ideal for larger power boats and small ships
- Strong fibreglass tube
- 6m cable
- PL259 plug
- Stainless steel ferrule

**AA20**

Active Antenna

- Receive only
- For Navtex, Weatherfax AM/SSB receivers etc
- 20m cable
- BNC plug
- Use with AAX1/AAX5

**AAX1**

Power Supply

- Use when DC power is not supplied by the receiver
- 10-30v DC
- 1m cable
- BNC jack

**AAX5**

Power Supply / Splitter

- Use when DC power is not supplied by the receiver
- Supply up to 5 receivers with one antenna
- 10-30v DC
- 1m cable
- BNC jack

**WS200-P**

Extension Loudspeaker

- Surface or flush mount
- Weatherproof, UV resistant
- Suitable for 4 or 8 ohm systems

**ARMNT-P**

Ratchet Mount (Nylon)

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

**ARMNT**

Ratchet Mount (S/Steel)

- 4-way swivel mount
- Deck or side mount
- Quick release lever
- Suitable for all powerboat antennas



### ICOM IC-M505E

#### Fixed DSC VHF Radio

New all-in-one DSC VHF with large dot matrix LCD, rotary volume, squelch and channel select knobs and fistic. The IC-M505 is compatible with new 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



ORDER CODE - ZICOM505

### ICOM IC-M603E

#### Fixed DSC VHF Radio

The IC-M603E replaces the award winning IC-M601E, adding a list of new features. The IC-M603E is compatible with up to two HM-162 Commandmic III's, allowing for 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. Like the IC-M33 handheld VHF, the IC-M603E features the innovative AquaQuake draining function which emits a vibrating sound to clear water away from the speaker grille.

#### KEY FEATURES

- Inbuilt Class D DSC operation
- High resolution LCD with clear, easy to read characters.
- IPX7 Waterproof construction (1m depth for 30 minutes)
- Front and rear microphone connection
- 30 Watt 2-way hailer capability
- Listen back through your hailer

#### SUPPLIED WITH

Fistic, power cable



ORDER CODE - ZICOM603

### ICOM HM-162 COMMANDMIC III

#### Full Function Remote Fistic

Unique new handheld fistic with LCD display and multi jog dial giving full control of the new IC-M505Euro including its DSC functions, intercom and other remote functionality including foghorn and a loudhailer.

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



ORDER CODE - ZICOHM162E

### ICOM IC-M421E

#### Fixed DSC VHF Radio

Compact, rugged waterproof DSC VHF radio. Position Request and Position Report functions allow you to exchange position information. The Polling function checks whether a specific ship is in communication range.

#### KEY FEATURES

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

#### SUPPLIED WITH

Fistic, power cable



ORDER CODE - ZICOM421

### ICOM IC-M401EURO

#### Fixed DSC-Ready VHF Radio

Ideal for anyone wanting to upgrade to DSC at a later date or where space is at a premium. Rated JIS-7 submersible and perfect for small boats like RIBs. To upgrade to DSC, simply add the DS100 Controller.

#### KEY FEATURES

- Normal, priority and tag scanning
- 22 memory channels
- Dual watch and tri-watch function

#### SUPPLIED WITH

Fistic, power cable



ORDER CODE - ZICOM401.001

### ICOM IC-M801E / IC-M801GMDSS

#### 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
- IC-M801GMDSS meets MED96/98/EC wheelmark requirements for SOLAS
- Available with fistic or telephone handset
- Optional ATU141 automatic antenna tuner



ORDER CODE 12V INC ATU141 - ZICOM801-PK1  
ORDER CODE 24V INC ATU141 - ZICOM801-PK2

### THRANE & THRANE FLEET SERVICES

#### Voice, Fax, Email and Internet Access

A range of satellite communication systems offering voice and data communications. Three models are available to suit most applications, from small boats to commercial shipping. Support for all products is available through the Thrane & Thrane worldwide network of Fleet Service Centres.

#### FLEET 33 KEY FEATURES

- Ideal for smaller boats
- Extensive spot beam coverage for fax, email and MPDS (always on connection to the Internet)
- 9.6kbps fax/data and voice
- Compact antenna is only 35x35cm and weighs less than 4.5kg

#### FLEET 55 KEY FEATURES

- For where a large antenna isn't practical, but high speed data is required
- 64kbps ISDN or MPDS
- Stabilised antenna weighs only 18kg

#### FLEET77 FEATURES

- Designed for large commercial operations
- Can be linked directly to standard desktop phones, payphones, DECT phones, and fax machines
- Cost effective global voice, fax, email, 64kbps ISDN and MPDS
- Vessels can be constantly linked with onshore management systems via the internet, including full e-mail services
- Global voice distress with pre-emption



**ORDER CODE FLEET55 - ZTHRRT3088A**  
**ORDER CODE FLEET55 - ZTHRRT3086A**  
**ORDER CODE FLEET77 - ZTHRRT3084A**

### THRANE & THRANE TT-3026D

#### Mini-C System

The world's first Inmarsat Mini-C system, comprising transceiver, antenna, and 12-channel GPS receiver in a single unit. The compact design and power conserving features make it very attractive for tracking and e-mail applications. It ensures fast and reliable transfer of vital information, e.g. position reporting, data monitoring, messaging, loading and unloading information, route planning, etc. It also features an advanced sleep mode function and includes a number of port options supporting interfacing requirements as well as six configurable I/O pins which can be connected to remote sensors, relays, or switches.

#### KEY FEATURES

- Extremely low power consumption
- Send and receive internet, e-mail, telex, Inmarsat-C, X-25, SMS (depending on applications)
- Optional message terminals available if no PC used
- Type approved for maritime applications
- Receives Enhanced Group Call (EGC) messages for SafetyNet and FleetNet

#### SUPPLIED WITH

EasyMail communication software for Windows



**ORDER CODE - ZTHRRT3026D**

### IRIDIUM SAILOR SC4000

#### Fixed Iridium Satellite Phone

Suitable for any size of vessel, comprises transceiver, intelligent handset and small marinised antenna. Ideal for crew calling use with pre-paid scratch cards.



#### KEY FEATURES

- True global coverage - voice and data
- Data rate 9.6kps when compressed
- Rugged construction, lightweight waterproof antenna
- Flexible installation - up to 50m between handset and transceiver, up to 30m coax cable available
- RJ11 port for secondary analogue telephone

#### SUPPLIED WITH

Transceiver, antenna, handset. Antenna cable sold separately (10, 15, 20 & 30m sizes)

**ORDER CODE - ZIRIAS23799**

### IRIDIUM 9505A

#### Iridium Satellite Phone

Handheld telephone in a rugged case, can also be used with an external antenna for below deck voice and data (email) calls. Ideal for emergency storage and/or routine use.



#### KEY FEATURES

- Headset/handsfree accessory
- Two way SMS facility
- Voice mail and call forwarding
- Signal strength and battery meters
- Data capable via optional data kit accessory
- Includes lightweight external antenna (1.5m cable)
- Marine antenna for semi-permanent installation

#### SUPPLIED WITH

Battery, AC charger, DC car charger, leather case, handsfree kit, external antenna

**ORDER CODE - ZIRIIRSS9505**

### THURAYA SO-2510

#### Satellite Phone

The world's smallest satphone!

At only 130g, this lightweight pocket sized phone is designed to be highly portable and user friendly.

#### KEY FEATURES

- 1.5in 128x128 pixel display
- SMS, polyphonic ring tones
- Enhanced GPS Services
- Internal memory - up to 32Mb
- Connectivity - USB
- GmPRS equipped - up to 60kbps
- Fax and Data at 9.6kbps (Circuit Switched)
- Talk time up to 2.4 hrs

**NEW FOR 2007**



**ORDER CODE - ZTHUSO2510**

### THURAYA SG-2520

#### Triband Smartphone

Satphone, GSM phone and GPS in one handset with a 177x200 pixel colour display and 1.3 megapixel camera with 5x digital zoom.

The SG-2520 is the only satellite tri-band phone in the market that allows operation on three different types of GSM networks: 900, 1800 and 1900MHz offering greater flexibility in high traffic GSM environments with increased phone usability and voice quality in Asia, Africa, Australia, Europe and North America.

#### KEY FEATURES

- World's smallest dual mode satellite phone
- Enhanced GPS Services
- Internal memory - up to 128Mb
- External memory - SD memory card
- GmPRS equipped - up to 85.6kbps (GSM), up to 60kbps satellite mode
- Fax and data at 9.6kbps (Circuit Switched)
- Talk time up to 2.4hrs (satellite) up to 4hrs (GSM)

**NEW FOR 2007**



### IRIDIUM RST310 INTELLIDOCK

#### Docking Station

Ideal for fixed or mobile applications, providing an intelligent RJ11/POTS interface which emulates all the standard features of a public telephone service. Operate connected equipment as if using a standard telephone connection. The RST310 is equipped to provide selectable line voltages and currents for ring and service tones, along with off-hook detection.

#### KEY FEATURES

- Connect to standard phones, faxes etc
- Iridium voice and data services
- SMS, SMSMO, Voicemail, call logging, crew calling
- Tracking and monitoring capable
- Line reversal for payphone use
- Supports intelligent handsets
- Local and remote configuration
- Supports backup battery / Solar



**ORDER CODE - CALL FOR DETAILS**

**Seen it for less? We will not be beaten on price - call us NOW!**



### SCANSTRUT

#### Antenna Mounting Solutions

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 a full product guide or assistance, please call us or visit [www.scanstrut.com](http://www.scanstrut.com).

#### SAILBOAT PRODUCTS

##### SCANSTRUT MAST PLATFORMS

###### Mast Mounts

Market leading mounts for radomes of all sizes & small satcom antennas, including new KVH M3.

###### KEY FEATURES

- Four swivel feet matches the profile of any mast
- Easy and quick to install with all fastenings supplied
- 12 point fixing using highest quality Monel rivets
- Waterproof cable grommet included, seals cable entry into mast

###### ACCESSORIES

- Radar Guard - Polished stainless guards protect radome from damage and reduce wear on sails.
- Cable Conduit - Simply run cables down the outside of the mast
- Mast Mount Adapter Kit - For masts with an integral track at the front



##### SCANSTRUT SELF-LEVELLING MOUNT

###### Backstay Mount

NEW automatic Self-Levelling Mount ensures radar is level with the horizon at all times. As the boat heels or rolls, the radar is kept horizontal preventing target loss for the best possible radar picture. Fits all 15in, 18in and 24in radomes.

Coming soon - Mast Mounted & Pole Mounted versions.

###### KEY FEATURES

- Hydraulic damping eliminates minor oscillations
- Sealed system - entirely maintenance free
- Passive system - no power required
- Lightweight head unit - reduced weight aloft
- Finest quality machined and anodised aluminium - lasts the lifetime of your yacht
- Stainless radome cradle with fine tune for backstay angle - suitable for any yacht

###### ACCESSORIES

- Single and double GPS / VHF accessory mounts available



##### SCANSTRUT SC100

###### Pole Mount

Totally versatile, SC100 will fit any boat, in any position for small radomes and satcom/tv antennas. Available in two heights - 1.9m and 2.5m

###### KEY FEATURES

- Innovative, fully adjustable base allows mounting on any surface from vertical to horizontal, including sloping decks and transoms
- Can be removed completely for racing, maintenance, or winter storage purposes

###### ACCESSORIES

- SC120 Lifting Crane - Lifts up to 30kgs
- SC117 Deck Flood Light - High-performance, 55W sealed beam halogen deck light
- Light and GPS/VHF Antenna Mounts - Mount above the radar for maximum visibility and performance.
- NEW Integrated LED Light Mount pre-fitted with the excellent Hella Marine NaviLED 360° all-round white light
- NEW Extender Bars - Stainless extension mounts for antennas and lights.



##### SCANSTRUT SC2

###### Pole Mount

The ideal installation for larger radomes, open-array radars and satcom/tv antennas on yachts from 12m/40ft upwards. SC2 is available in deck mount or through deck versions.

###### KEY FEATURES

- SC2 Through-Deck Mounted is available in 3m and 4m heights to provide maximum stability for taller installations and heavier antennas. Unique collar system clamps pole at deck level and also inside the boat
- SC2 Deck Mounted is available in 1m length and is ideal for installing larger antennas on cabin roofs, low arches and other areas where minimal elevation is required

###### ACCESSORIES

- See SC100 Pole



#### POWERBOAT PRODUCTS

##### SCANSTRUT POWER TOWER

###### Powerboat Antenna Mounts

To gain maximum performance, your radar needs a clear view of the horizon. PowerTower® enables this by positioning the antenna clear of obstructions. All PowerTowers are built from the best marine grade materials. Pre-drilled mounting holes ensure a quick and easy installation, with a hollow stem for cable routing.

###### Composite PowerTower®

For radomes and small satcom antennas, offers a single "monocoque" structure with no joints for outstanding strength and surface finish. Its aerodynamic shape and high gloss finish makes it as strong as it is attractive.

###### KEY FEATURES

- Choice of heights: 150mm/6in or 350mm/14in - gain max radar performance
- 30° aft leaning stylish profile - compliments the look of any powerboat
- Small base footprint - just 200mm/8in square, fits onto narrow radar arches



###### Stainless PowerTower®

For radomes, open-array antennas & small satcom antennas. Made in highly polished 316 stainless steel, it's a great looking installation on any boat.

###### KEY FEATURES

- Raises antenna 150mm/6in for max radar performance
- 30° aft leaning stylish profile - compliments the look of any powerboat
- Smallest base footprint, just 150mm/6in square, ideal for narrow radar arches



###### Aluminium PowerTower®

For radomes, open-array antennas & small satcom/tv antennas. Using Scanstrut's unique ellipse extrusion, Aluminium PowerTower® offers a 25° forward leaning profile.

###### KEY FEATURES

- Choice of heights: 130mm/5in or 250mm/10in - gain max radar performance
- Small base footprint - just 180mm/7in square, fits onto narrow radar arches



###### Dual PowerTower®

NEW. For satcom/tv domes, radomes or open-array radars. Installs radar and satcom antennas on a single space-saving mount. Will fit all major brand 2kW and 4kW radomes, 4ft open-array antennas and 40cm satcom domes.

###### KEY FEATURES

- Eliminates antenna interference and ensures maximum performance from both antennas
- Minimal mounting area required
- Integral cable management system - cables hidden from view



###### POWERTOWER® ACCESSORIES

- NEW PowerTower® Gantry Mount combined mounting solution for all navigation/search lights, GPS/VHF antennas in a single space saving installation (please note this is not compatible with the Composite PowerTower range)
- Light and GPS/VHF Antenna Mounts for maximum visibility and performance
- NEW Integrated LED Light Mount with Hella Marine NaviLED 360° white light
- NEW Extender Mounts - stainless extension mounts for antennas and lights
- 4° Base Wedge provides level horizon for your radar when the boat is underway

##### SCANSTRUT SATCOM MOUNTS

###### Satcom Dome Mounts

Space on board is always limited for installing satcom/tv antennas. Scanstrut Antenna Mounts eliminate this problem by reducing the mounting footprint up to 60%, providing greater choice of antenna position and a quick and easy installation.

###### KEY FEATURES

- Adapter mount fixings hidden internally
- External fixings for ease of installation & maintenance
- Watertight installation - factory fitted seal & gland
- New solutions for KVH M3 & G8 & Raymarine 60STV

###### ACCESSORIES

- Satcom Wedges are adjustable from 0-12° to provide a level mounting platform on angled surfaces



**AVTEX W151D****6-in-1 15in LCD TV/DVD/CD**

Ideal for onboard use is this stylish state of the art multistandard 15in LCD TV with a very high grade panel for superior picture quality. Integrated DVD/CD player with BBE sound field effect for outstanding sound clarity.

Also incorporates a smart card reader, an easy tune AM/FM RDS radio and VGA input.

**KEY FEATURES**

- 240v AC / 12v DC operation (approx 3.2A on DC)
- 24v operation when used with 24v adaptor
- Multistandard tuner for Europe (including France)
- VESA bracket compatible
- 500:1 contrast ratio
- Teletext
- Nicam stereo sound
- Built in DVD/CD player
- Sleep/On timer
- Built in AM/FM RDS radio USB port
- VGA socket for use as a PC monitor
- Built in Smart Card reader (for use with memory cards in digital cameras etc)
- Headphone, Scart, Phono and S-video sockets
- Digital Audio Out

**SUPPLIED WITH**

AM/FM antennas, multipurpose wall/ceiling flip-down bracket

**ORDER CODE - ZAVTW151D****AVTEX S1040****12v 10.4in Digital LCD TV**

LCD TV with Freeview and analogue receivers. Can be used on 12v/24v DC and mains AC power supplies. Fully auto-tuning, can also be used as a PC monitor (VGA standard). Can be wall mounted.

**KEY FEATURES**

- Digital TV & radio, analogue TV channel reception
- Can store up to 1000 channels
- Multi-language menus
- AV input, DVB-T / AV output, earphone socket

**SUPPLIED WITH**

Adjustable mounting stand, digital aerial, analogue aerial, remote control, earphones, power leads

**ORDER CODE - ZAVTS1040****AVTEX MDV7****12v DVD Player**

The ideal companion for the S1040, the 12v/240v MDV7 is one of the most compact DVD players on the market, ideal for onboard or in home.

**KEY FEATURES**

- Multi region, NTSC/PAL
- Supports DVD, CD, VCD, S-VCD, CD-R, MP3 WMA, CD-RW MP3 HDCD and Kodak Photodisc
- Dolby Digital AC-3, DTS, LPCM digital audio out
- Optical out, composite video and S-video out
- Earphone output with volume control

**SUPPLIED WITH**

Remote control, AV cable

**ORDER CODE - ZAVMDV7****LINN CLASSIK MOVIE****DVD Player**

If you demand audiophile-quality sound and picture, the Linn Classik Movie is the solution. An innovative, high-performance total entertainment solution for music and movies. Enjoy the benefits of home cinema onboard! Listen to your favourite music, watch the latest movie or catch up with the radio news - the Classik Movie offers unrivalled functionality from a compact, easy to operate, simple to install system.

**KEY FEATURES**

- Complete home cinema system
- CD player
- AM/FM tuner
- Multiroom distribution
- Multi-channel DVD
- Dolby-Digital/DTS
- 5.1 channel amplification

**ORDER CODE - ZLINMOVIE06SB****LINN CLASSIK MUSIK****CD Player**

An integrated CD player, AM/FM tuner and amplifier, the Classik Musik system delivers leading audio performance in an easy-to-use, all-in-one package.

**KEY FEATURES**

- 75 watt, 4 ohm amplifier
- Two sets of speaker connections per channel
- Multi room system compatible

**ORDER CODE - ZLINMOVIE06SB****SONOS CS100****Digital Music System**

Get instant access to your whole digital music collection, internet radio and select music services from almost anywhere with this stylish and innovative multi zone digital music storage system ideal for even large installations. Multi-stream playback - play different songs simultaneously in up to 32 different zones. Multi-zone synchronous playback - play the same song simultaneously in up to 32 different zones without echoes or delays. Large, full-colour LCD screen and iPod-style scroll wheel for easy, intuitive operation. Supports up to 32 Controllers and ZonePlayers per system.

**KEY FEATURES**

- Integrated multiroom control
- Avoids sources of wireless interference
- Plug in ZonePlayers to add rooms to the system
- No ripping, downloading or PC required
- Multiple browsing options
- Queue-based music playback
- Separate queues for each zone

**SUPPLIED WITH**

Package includes two Zone Players, one Controller, two speaker sets. Components also sold separately.



- Flexible playback options
- Backlit buttons and screen
- Full-screen and thumbnail views of album art
- Movement sensor automatically turns controllers on when you pick it up
- Light sensor turns backlighting on only when necessary to conserve battery power

**ORDER CODE BUNDLE PACKAGE - ZSONCS100UK**  
**ORDER CODE CR100 CONTROLLER - ZSONCR100UK**  
**ORDER CODE ZP100 ZONEPLAYER - ZSONZP100UK**

**BOSE 131****Marine Loudspeakers**

Marine speakers that deliver high-fidelity sound. Each speaker has a tuned, ported enclosure and features a proprietary full-range driver, which provide greater power and clarity with full, deep bass and clear, crisp high frequencies.

These speakers are put through a rigorous evaluation by re-creating extreme environmental conditions, including temperatures ranging from 158°F to -13°F.

**KEY FEATURES**

- Engineered to withstand snow, sun, rain, ice and saltwater
- Designed to fit pre-cut speaker holes on most boats
- Survived 66% longer than the Marine Industry Standard in tests simulating years of exposure
- Three-year limited warranty

**ORDER CODE - ZBOS131**

### 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](http://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](mailto:sales@mesltd.co.uk),
- **call us** on 0870 122 1099 or
- **fax us** on 0870 122 1098



#### 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 truly 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 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 include 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](mailto: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

**OCEAN**  
INSTALL



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