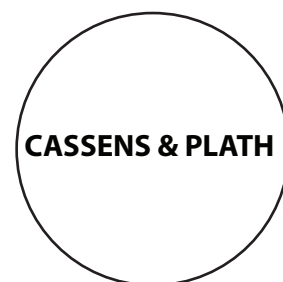
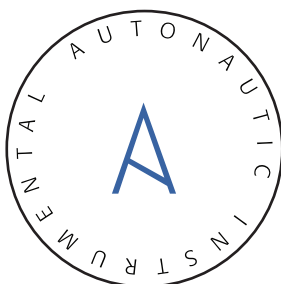




COMMERCIAL & LEISURE CATALOG



YDDO Maritime is the representative of all international brands...



GMDSS RADIO SURVEY



Our Radio List includes: Radio, AIS, EPIRB, SSAS for Sea Areas A1, A2, A3 and A4
Highly qualified Service Engineers fully familiar with the requirements of IMO, SOLAS, Classification and Flag Societies. We have competitive rates in GMDSS, AIS and SSAS Radio Inspection.



The GMDSS Annual Surveys are conducted according to international classification societies standards.
YDDO Maritime & Consulting is approved by all international association of classification societies (IACS) members, namely ; LR, ABS, BV, CLASS NK, DNV-GL, TÜRK LOYDU and RINA.
Our Radio Surveyor Team has been trained in Maritime school and worked onboard as officer.

DANELEC

DANELEC DM800 - DM700 ECDIS SYSTEM

DM800 ECDIS Enhanced features



- Dual processor system
- Advanced network capability providing additional security and redundancy
- 4 Ethernet ports / 12 serial (NMEA) inputs

DM700 ECDIS Essential features




- Single quad-core processor system
- Standard network capability for system synchronization in dual installations
- 2 Ethernet ports / 5 serial (NMEA) inputs

The Benefits are Invaluable SWAP technology™

- Saves time by enabling onboard repairs to be accomplished in a matter of hours, not days
- Saves money by reducing man hours for service calls
- Protects valuable shipboard data on a hot-swappable memory card
- Keeps ships on schedule, eliminating in-port delays for repairs

STANDARD




W: 342 mm
H: 287 mm
D: 238 mm
W: 7.5 kg

DM800 ECDIS Main Unit

Linux based ECDIS computer with 32 GB SSD (expandable up to 512GB) • 12 serial channels (10 x IEC 61162-1, 2 x IEC 61162-2) • 4 Ethernet ports (100BASE-TX, RJ45) • 8 USB ports (USB 2.0) • AC power (110-230V, 50-60Hz) • Supplied with ECDIS Alarm Panel and USB Hardware Key • Built in DVD drive

STANDARD




W: 211 mm
H: 35 mm
D: 161 mm
W: 0.8 kg

DM700 ECDIS Main Unit

Linux based ECDIS computer with 64 GB SSD (expandable up to 256GB) • 5 serial channels (5 x IEC 61162-2) • 2 Ethernet ports (100BASE-T, RJ45) • 4 USB ports (1 x USB 3.0, 2 x USB 2.0, 1 x internal USB 2.0 for USB Hardware Key) • Powered from monitor • Supplied with USB Hardware Key • ECDIS Alarm Panel as option

OPTIONAL




(Without monitor)
W: 620 mm
H: 934 mm
D: 679 mm
W: 64 kg

ECDIS Console

Danelec ECDIS Console in classic pedestal design • Housing ECDIS Computer, Alarm Panel, Keyboard / trackball and Monitor • Prepared for flush mounting of keyboard (with handrail) • Prepared for top mounting of monitor

STANDARD




W: 684 mm
H: 452 mm
D: 68 mm
W: 11 kg

Monitor 27" (widescreen)

Rugged, military-grade LED display • Max resolution 1920 x 1080 pixels (Full HD) • DVI-I, VGA, Composite video and S-Video interfaces • IP42 rated enclosure protection • AC power (90-264V), DC power (24V) • Low power consumption / low heat emission for extended lifetime • Narrow frame and flexible mounting options • Supplied with mounting kit

STANDARD




W: 601 mm
H: 408 mm
D: 68 mm
W: 10 kg

Monitor 24" (widescreen)

Rugged, military-grade LED display • Max resolution 1920 x 1080 pixels (Full HD) • DVI-I, VGA, Composite video and S-Video interfaces • IP42 rated enclosure protection • AC power (90-264V), DC power (24V) • Low power consumption / low heat emission for extended lifetime • Narrow frame and flexible mounting options • Supplied with mounting kit

STANDARD



W: 483 mm
H: 419 mm
D: 64 mm
W: 6.5 kg

Monitor 19"

Rugged, military-grade LED display • Max resolution 1280 x 1024 pixels (SXGA) • DVI-I, VGA, Composite video and S-Video interfaces • IP42 rated enclosure protection • AC power (90-264V), DC power (24V) • Low power consumption / low heat emission for extended lifetime • Narrow frame and flexible mounting options • Supplied with mounting kit

STANDARD




W: 424 mm
H: 63 mm
D: 170 mm
W: 2.1 kg

Advanced Keyboard / Trackball

Rugged, military-grade marine keyboard • Chemically and abrasion resistant keys with red backlight • IP66 rated enclosure protection • Connection to Main Unit via USB port • Supplied with 50mm Dura Track trackball • Can be flush mounted

STANDARD




W: 510 mm
H: 53 mm
D: 170 mm
W: 1.3 kg

Basic Keyboard / Trackball

Connection to Main Unit via USB port • Supplied with 46mm trackball • Can be flush mounted

OPTIONAL

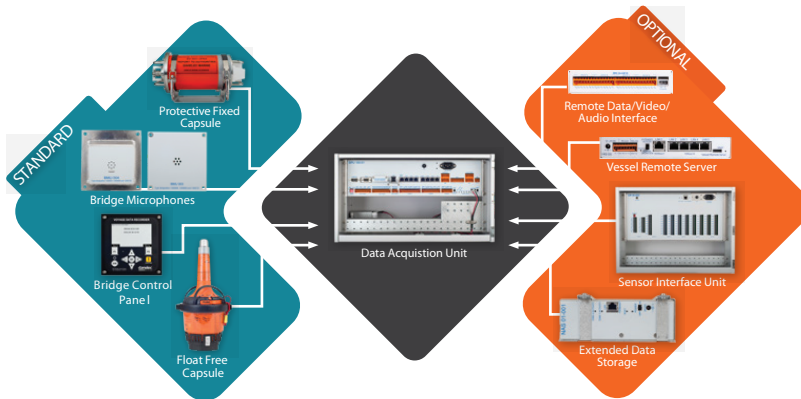


W: 202 mm
H: 197 mm
D: 374 mm
W: 9.1 kg

Uninterruptible Power Supply

Danelec ECDIS is type approved without the need for UPS • UPS is available if flag state or customer requires • Backup time: 13.5 min. (130W) at half load / 5.5 min. (260W) at full load • AC power (230V, 50-60Hz) • Output power capacity: 420VA / 260W • Marine approved (IEC 60945)

DANELEC VOYAGE DATA RECORDER (VDR - SVDR)



The Benefits are Invaluable SWAP technology™

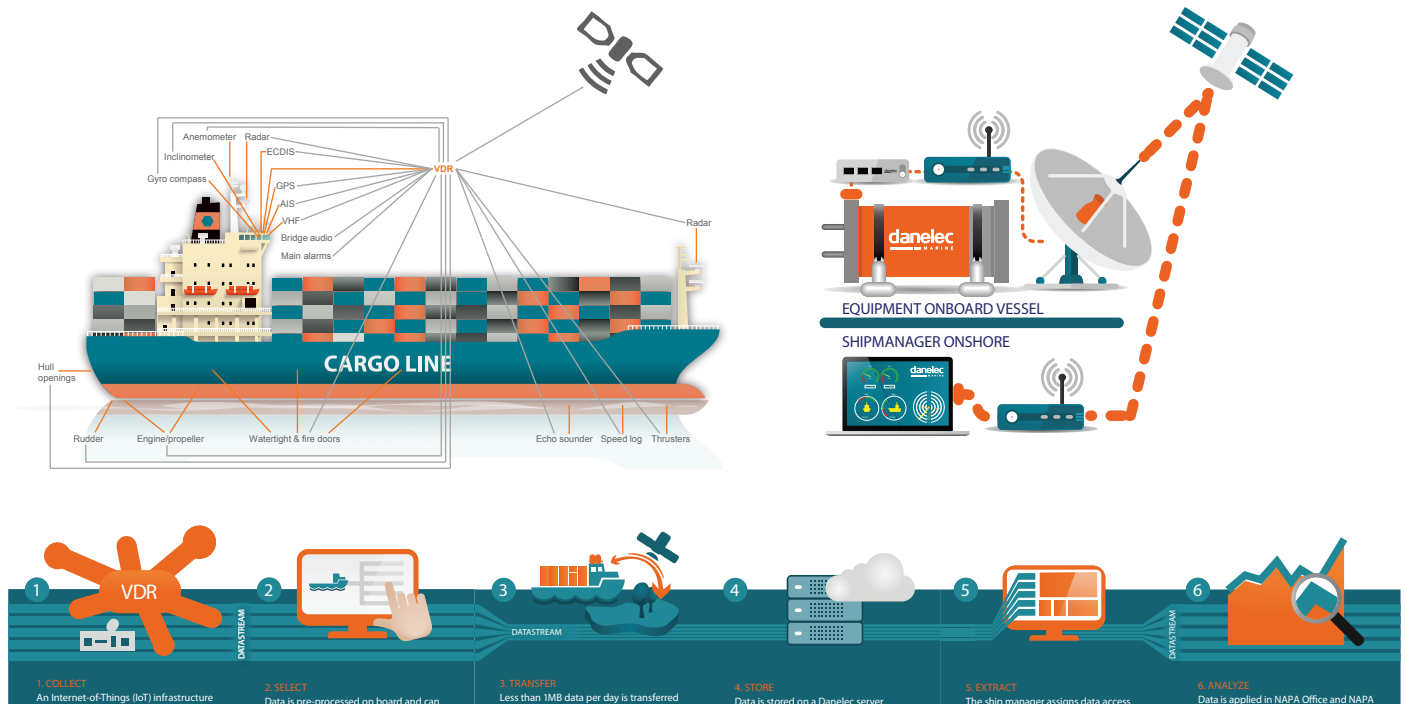
- Saves time by enabling onboard repairs to be accomplished in a matter of hours, not days
- Saves money by reducing man hours for service calls
- Protects valuable shipboard data on a hot-swappable memory card
- Keeps ships on schedule, eliminating in-port delays for repairs

STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
<p>Data Acquisition Unit 30 days of recording capacity on built-in SSD - 10 inputs for bridge audio and VHF - 12 inputs for serial data (IEC 61162-1, IEC 61162-2 and Modbus) - 7 inputs for IEC 61162-450 network data (100BASE-T) - AC power (110-230V, 50-60Hz) - Built-in UPS with NiMH batteries</p> <p>W: 495 mm H: 250 mm D: 242 mm W: 11 kg</p>	<p>Protective Fixed Capsule 48 hours of recording capacity - 90 days acoustic under water beacon - Supplied with 50 meters cable - Ethernet (100BASE-TX) interface - Powered from Data Acquisition Unit (PoE)</p> <p>W: 360 mm H: 195 mm D: 208 mm W: 8 kg</p>	<p>Float-free Capsule 48 hours of recording capacity - Supplied with 50 meters cable - Ethernet (100BASE-TX) interface - Powered from Data Acquisition Unit (PoE) - COMSAR/ COSPASS approved EPIRB</p> <p>W: 236 mm H: 553 mm D: 214 mm W: 4.8 kg</p>	<p>Bridge Control Panel Interface for Operational Performance Test - Built-in graphical color TFT LCD display - Ethernet (100BASE-TX) interface - Powered from Data Acquisition Unit (PoE)</p> <p>W: 144 mm H: 144 mm D: 64 mm W: 1.1 kg</p>	<p>Bridge Microphones (Outdoor / Indoor) Built-in buzzer for self-test - Built-in amplifier and filters - IP66 water resistant (outdoor only) - Powered from Data Acquisition Unit</p> <p>W: 96 / 84 mm H: 96 / 84 mm D: 60 / 30 mm W: 0.5 / 0.1 kg</p>
OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
<p>Extended Data Storage Up to 6 months of recording time - Marine approved (IEC 60945) - SSD and HDD versions - Storage capacity: 256GB, 512GB or 1TB - Ethernet (100BASE-T) interface - AC power (110-230V, 50-60Hz) through AC adaptor</p> <p>W: 61 mm H: 172 mm D: 116 mm W: 1.1 kg</p>	<p>Vessel Remote Server DIN rail mountable or standalone - 1 x Ethernet (100BASE-T) port for the VDR - 4 x Ethernet (100BASE-TX) ports for the ship's LAN networks - 12-24V DC power input - AC power (110-230V, 50-60Hz) through AC adaptor - Normal or Extended Access operating modes - Support for SWAP technology™</p> <p>W: 180 mm H: 30 mm D: 100 mm W: 0.3 kg</p>	<p>VDR Conversion Kit Reduces installation time by facilitating replacement of existing equipment regardless make or model - Pre-drilled universal adaptor plates and mounting brackets - Serial, digital and analog interfaces - Existing cabling can typically be reused - Software tool for conversion of old configuration files</p> <p>W: 180 mm H: 30 mm D: 100 mm W: 0.3 kg</p>	<p>Sensor Interface Unit (Compact / Modular) 8 inputs for serial data (IEC 61162-1, IEC 61162-2 and Modbus) - 8 or 16 inputs for analog data - 64 inputs for digital data (in compact version) - 48 inputs for digital data (in modular version) - 1 free slot (in modular version) - AC power (110-230V, 50-60Hz)</p> <p>W: 325 / 325 mm H: 342 / 342 mm D: 165 / 136 mm W: 12 / 22 kg</p>	<p>Remote Data Interface (Serial/Analog/Digital) 8 inputs for serial data (IEC 61162-1, IEC 61162-2 and Modbus) (in serial version) - 8 inputs for analog data (in analog version) - 24 inputs for digital data (in digital version) - Powered from Data Acquisition Unit or locally - Can be daisy-chained - Can operate as standalone equipment - Support for SWAP technology™</p> <p>W: 141 mm H: 32 mm D: 163 mm W: 0.3 kg</p>
OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
<p>Remote Video Interface (Analog BNC / Digital DVI-I) 2 inputs for video recording - RGBHV (in analog version) or DVI-I / DVI-A (in digital version) - Ethernet (100BASE-TX) interface - Powered from Data Acquisition Unit (PoE)</p> <p>W: 149 mm H: 49 mm D: 206 mm W: 0.3 kg</p>	<p>Remote Audio Interface (4 / 8 channels) 4 / 8 inputs for bridge audio and VHF - Ethernet (100BASE-TX) interface - Powered from Data Acquisition Unit (PoE)</p> <p>W: 149 mm H: 49 mm D: 256 mm W: 0.5 kg</p>			

DANELEC VESSEL REMOTE SERVER

VDR OnDemand Remote Access to Shipboard Systems

DanelecConnect Intelligent and cost efficient ship-2-shore data solutions



Tron 60S/GPS

The Tron 60S/GPS is a GMDSS EPIRB (emergency position indicating radio beacon). It is small, compact and sealed. Optimal visibility is achieved with high intensity LED, located at the top of the antenna.

- Operates on the COSPAS SARSAT frequency (406 MHz). Identification and positioning via satellite. Also transmits on the air traffic emergency frequency (121,5 MHz) for homing
- The EPIRB is supplied with either a manual or float free bracket
- 5 year warranty
- Complies with IMO and SOLAS regulations and is Anatel, CCS, FCC, MED and RMRS approved
- Service stations worldwide



Tron 40S MkII

The Tron 40S MkII is a GMDSS float free satellite, EPIRB. It is compact and designed with flexible mounting for fast and easy service and maintenance.

- Operates on the COSPAS SARSAT frequency (406 MHz). Identification and positioning via satellite. Also transmits on the air traffic emergency frequency (121,5 MHz) for homing
- Optional brackets, either a float free bracket with protective cover or a float free bracket with heating
- 5 year warranty
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC, IC, MED, RMRS and RRR approved
- Service stations worldwide



Tron AIS-SART

Tron AIS-SART is a GMDSS search and rescue transmitter. It is designed for use during search and rescue operations, providing exact location specifics with GPS precision.

- Position updating (per minute)
- VHF signals are transmitted on AIS Channel A and B
- 5 year warranty
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC and MED approved
- Service stations worldwide



Tron SART20

Tron SART20 is a GMDSS radar transponder (9 GHz). It is designed for use during search and rescue operations, supplying the exact location based on a distress level appearing on the radar X-band display of nearby ships, SAR vessels and aircrafts.

- 5 year warranty
- Complies with IMO/SOLAS/GMDSS regulations and is Anatel, CCS, FCC, IC, MED, RMRS and RRR approved
- Service stations worldwide



Tron 40VDR - FLOAT FREE CAPSULE

Tron 40VDR Float Free Capsule is a combined Cospas-Sarsat and MED approved float free emergency position indicating radio beacon (EPIRB) and a float free storage medium. The Tron 40VDR Float Free Capsule complies to the latest VDR performance standards IMO MSC.333 (90), IEC61996-1 Ed.2 and IEC61097-2. USCG and is FCC approved. The separate VDR storage module contains a standardized memory capacity at 64GB.



Tron TR30 GMDSS and Maritime VHF Radio

The Tron TR30 GMDSS and Maritime VHF Radio is an innovated “two-in-one” radio, which gives the user the opportunity to access both standard GMDSS simplex channels and full maritime duplex channels.

- Floating GMDSS and maritime VHF radio
- Full duplex channels accessed with rechargeable battery reset emergency mode when connected to primary battery
- Excellent microphone noise cancelling
- Waterproof accessories

This product is selling with two different version,

* Basic Pack ; VHF Device + Emg. Batt.

* Full Pack ; VHF Device + Emg Batt. + Chargable Batt. + Charger



Tron AIS TR-8000 (Class A)

The Tron AIS TR-8000 has a separate display and transceiver unit, with a compact design for easy installation. It includes a combined junction box, a transceiver unit and display rated to IP54.

- 7" touchscreen
- ECDIS interface
- Console or desktop mounting
- Optional pilot plug available
- Software upgradable
- Compliant to in-land waterways requirements
- Approved according to ITU 1371-5, IEC 61993-2 ED. 2,0, 2012. MED, FCC, CCS and Anatel



Tron ML-series

HIGH INTENSITY LEDs

The Tron ML-series has a user-friendly module-based construction, making all products easy to service and repair. The series has high intensity LEDs with several enhanced features implemented. They can be activated through programming of:

- Light-intensity
- Flash-rate
- Synchronization (and master/slave)
- Daylight switch (with adjustable ambient light level for ON/OFF)
- Tron ML-100 is powered by 3 Alkaline D battery cells, total of 4.5 VDC
- Tron ML-200 is powered by a special high capacity battery pack at 4.5 VDC
- Tron ML-300 uses external 10-27 VDC



Tron ML-100

Tron ML-200

Tron ML-300

AQ-4 MkII

STROBELIGHT

AQ-4 MkII is a high quality multi-purpose marking and distress personal strobelight. It is designed for use in extreme maritime and onshore environments. AQ-4 MkII is developed with high intensity LED. By using the two-way switch, flash or fixed light can be activated. The strobelight is waterproof to 500 meters.



NETWAVE SVDR/VDR

NETWAVE - NW4000 ULTRA S-VDR

DESIGNED FOR THE MARITIME ENVIRONMENT

Netwave NW-4000 (S)VDR System is part of a new generation of Ultra Compact (S)VDRs, designed with emphasis on cost-effective installation and ease-of-use. The NW-4000 System offers ship-owners dual benefits – a mandatory (S)VDR system plus a management system with tools and data to improve transparency of operational performance.

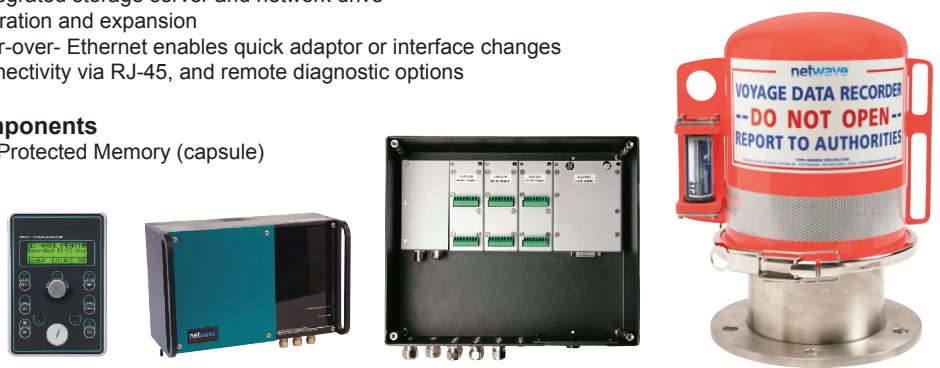
The NW-4000 (S)VDR is designed to be placed inside consoles to reduce cable laying. Faster & cost-effective installation benefits are coupled with Netwave's WaveNet cabling technology, whereby power and data are transmitted over a single Ethernet cable, eliminating extensive and costly cabling requirements.

Key Features

- Fast Track Installation with single-wire WaveConnect, reducing cabling by 50%
- Auto Configuring – reduces installation time and errors
- Netwave-Designed Hardened Capsule with integrated storage server and network drive
- Flexible Modular Design – ease of vessel integration and expansion
- Service Friendly & Long-Term Savings – Power-over-Ethernet enables quick adaptor or interface changes
- Versatile Monitoring – from the bridge, PC connectivity via RJ-45, and remote diagnostic options

Netwave NW-4000 (S)VDR System Components

- NW-4800 HSS Hardened Storage Server with Protected Memory (capsule)
- NW-4200 PSU Power Supply & Switch Unit
- NW-4010 BCU Bridge Control & Alarm Unit
- NW-4400 WIM WaveNet Interface Module
- DCU Digital Connection Unit



NETWAVE - NW6000 VDR

The Netwave NW-6000 VDR (Voyage Data Recorder) Series is indicative of Netwave Systems' commitment to manufacturing highly advanced new generation Voyage Data Recorders. Its flexible design is easily adaptive to new build installations as part of IBS, or in retrofit applications, offering enhanced features.

The unique system architecture of Netwave's VDR Systems, interconnect numerous ship components by a single Ethernet cable that also provides power and data, thus eliminating extensive and costly cabling requirements. This attribute typically reduces cabling costs by 50%!

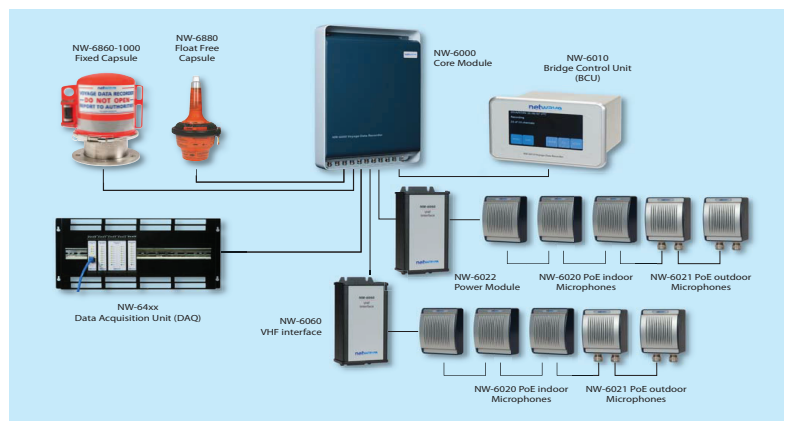
The NW-6000 VDR System provides the smallest footprint, the most economical installation costs, unrivaled operational value due to added functionality, and is compliant with MSC 333(90). The system's management tools and data features improve transparency in operational performance.

Key Features

- Remote Monitoring & Real-Time Management for fault diagnosis, status reports, and operational performance data
- Versatile VDR Design – install in a 19" rack or bulkhead mounted casing; place inside the navigation console or against a flat surface
- Netwave-Designed Fixed Capsule with integrated storage server and network drive
- Camera Monitoring – video capture from key locations on the vessel, coupling full data access with live streaming camera recordings
- Live Instant Replay Option – integrating with various IBS solutions for complete situational details

Netwave VDR and (S)VDR Systems Components:

- NW-6860-1000 Fixed Capsule
- NW-6880 Float free Capsule
- NW-6000 Core Module
- NW-6010 Bridge Control Unit
- NW-64xx Data Acquisition Module
- 6 x NW-6020/6021 microphones
- NW-6060 VHF Interface



McMURDO

SmartFind E8 & G8 EPIRB Range

SmartFind E8 / G8 EPIRB Range Features Comparison

Feature	Description	SmartFind E8	SmartFind G8	SmartFind G8 AIS
Optimised for MEOSAR	Enhanced detection capability for accelerated rescue	✓	✓	✓
VHF homer	121.5MHz swept tone	✓	✓	✓
406 frequency	International rescue frequency	✓	✓	✓
GNSS receiver	72 channels multi-constellation (see Note 3)		✓	✓
AIS capability	AIS for localized rescue			✓
SmartTransfer	Manual bracket allowing transport without activating water switch	✓	✓	✓
Auto-housing option	Automatic deployment when submerged 1 - 4m	✓	✓	✓
Activation method	Manual or water activation	✓	✓	✓
SmartCarry	Concealed hands-free easy carry strap		✓	✓
SmartBase	Impact protection	✓	✓	✓
SmartLight	3 lights, 360 degree coverage	✓	✓	✓
SmartSwitch	Reusable ON power button cover, to prevent accidental activation	✓	✓	✓
Battery storage life	10 years (Lithium Iron Disulphide) (see Note 4)	✓	✓	✓
SmartChange	Easy service battery	✓	✓	✓
Global service network	200+ service centres across 80+ countries	✓	✓	✓
Multiple self tests	120 short tests for system check and 20 Long tests which include testing of the GNSS receivers (see Note 1)	✓	✓	✓
Warranty	1 + 4 years with 1 year extension on safety check (see Note 2)	✓	✓	✓
Part of McMurdo Ecosystem	Developed with McMurdo's unique understanding of the technical requirements to fully utilise the Cospas-Sarsat infrastructure	✓	✓	✓



S4 Rescuer SART & S5A AIS-SART



S4 Rescuer SART

The S4 Rescue Radar SART is a 9GHz X-band Search and Rescue Locating Device which offers proven reliability. Extremely simple to use, the S4 Rescue can be operated even with gloved or wet hands. Its compact design makes it suitable for packing in liferafts or as a carry off device.

S5A AIS-SART

The SmartFind S5A AIS SART is a manual deployment survival craft AIS Search and Rescue Transmitter (AIS SART), intended for use on life rafts or survival craft. It meets IMO SOLAS requirements and is a replacement for legacy radar SARTs.



SmartFind GMDSS Navtex

Tri Channel Professional Colour NAVTEX. Provides automatic reception of maritime safety and weather information at sea.



R5 Gmdss Handheld VHF & R8F Firefighter UHF Radio

R5 Gmdss Handheld VHF

The R5 is a fully featured GMDSS survival craft radio with user friendly design and features. It is built to meet the latest stringent IMO, GMDSS and ETSI standards.

SmartFind R8F UHF Fire Fighter Radio

McMurdo's first marine approved two-way radio made specifically for firefighting communications. The rugged McMurdo SmartFind R8F UHF Fire Fighter Radio is an intrinsically safe two-way radio that meets new SOLAS II-2 mandated regulations for improved fire safety at sea.



FastFind 220 PLB



Smartfind S20 AIS MOB Device



Smartfind S10 AIS



FastFind Ranger

SAILOR

SAILOR 6200 SERIES VHF-DSC TRANSCEIVER



Sailor 6222 VHF Class A

SAILOR 6222 VHF DSC continues the proud SAILOR tradition of setting new standards for GMDSS VHF design. It is a vital tool for daily operation and has been developed for the harsh maritime environment as part of the innovative SAILOR 6000 Series. It is based on the same foundation of high reliability, ease-of-use and leading-edge functionality that has positioned SAILOR as the top name in maritime VHF's.

Advanced features

- Unique SAILOR Replay (240 sec.) of incoming communication
- High quality display – perfect night and day vision
- Powerful 6W loudspeaker
- Intuitive and easy to operate menu structure
- Large tactile buttons and wheelknobs for easy operation
- The popular SAILOR handset
- ThraneLINK

SAILOR 6280 / 6281 CLASS A AIS SYSTEM

The SAILOR 6280/6281 AIS System (Class A) is a SAILOR product through and through. From the innovative 'black box' system design and user friendly touch screen operation, to flexible installation possibilities and inherent durability, it is built on the fundamental qualities that have made SAILOR a well respected name in maritime communication. You can trust it to reliably broadcast your AIS data and display that of vessels around you, ensuring your ability to operate safely and efficiently.

Advanced features

- All parts included in the box – even the SAILOR 6285 Active GPS Antenna
- Built-in Self-diagnostic system
- Possibility for one-antenna installation (Common VHF and GPS antenna)
- River use compliant – Compliant with CCNR requirements
- Works with both GPS and GLONASS
- Support message for Long Range Satellite tracking on channel 75 & channel 76
- Interface for 'Pilot Plug'



SAILOR 656X GNSS (GPS/DGPS) SYSTEM



The SAILOR 6560 GNSS System and SAILOR 6561 GNSS Basic (Global Navigation Satellite System) set new standards in functionality and flexibility for satellite navigation sensors. Built to the highest quality SAILOR standards, they join the already available SAILOR 639X Navtex and SAILOR 628X AIS as new generation network integrated SAILOR products designed to work in the unique SAILOR 'Multi-Function Universe'.

Collect satellite data from any available navigation satellites including GPS and GLONASS and distribute it to a variety of on board systems such as: ECDIS, INS, GMDSS, SATCOM, Master Clock Systems and PABX (Telephone Exchanges).

Sailor 6560 GNSS System contains:

- Sailor 6588 Receiver
- Sailor 6004 Control Panel Display
- Sailor 6285 Antenna

The Sailor 6561 GNSS Basic is delivered without Control Panel Display only.

SAILOR

SAILOR 6391 NAVTEX SYSTEM

The SAILOR 6391 Navtex System sets new standards in functionality and flexibility for SOLAS mandated Navtex receivers. As a black box system, with separate touch screen user-interface, it introduces a new approach that enhances safety and efficiency, whilst being fully SOLAS compliant. It is a next generation system offering new installation and operation possibilities today, with the potential to become part of the fully networked bridge in the future.

Advanced features

- 100% network integration – flexible installation options
- Multifunction user friendly touch screen interface – works with different devices
- Easy & cost-effective servicing and software updates – easy on board and remote access
- SOLAS compliance for Navtex messages – part of the SAILOR 6000 GMDSS Series
- Future-proof – ready for bridge and communication system integration



SAILOR 6110 Mini-C GMDSS



The SAILOR 6110 mini-C is a true next generation GMDSS solution. Building on the strong foundation of previous SAILOR GMDSS products, it introduces innovative new features and functionality, including touch screen operation through the cutting-edge SAILOR 6018 Message Terminal and an all new approach to installation and networking.

COMPARISON CHART

	SAILOR 6110 mini-C	SAILOR 6120 mini-C	SAILOR 6130 mini-C	SAILOR 6140 mini-C	SAILOR 6150 mini-C
GMDSS	X				
SSAS	X	X			
LRIT	X	X	X		
SafetyNET	X		X	X	X
Non-SOLAS Distress					X
Tracking	X	X	X	X	X

SAILOR PORTABLE SERIES



Communication is vital for safety and efficiency at sea so choosing a portable radio designed specifically for this harsh environment is a must. Fully waterproof, the SAILOR SP3500 portable series offers a model for all marine applications including GMDSS and new ATEX versions.

The Portable Family

The SAILOR SP3500 portable series features seven high-quality, durable models specifically designed for marine use on all types of vessel including fishing, tanker, cargo or offshore, whilst at the same time offering superb value for your operation.

- SAILOR SP3510 Portable VHF
- SAILOR SP3515 Portable VHF with scrambler and CTCSS
- SAILOR SP3520 Portable VHF GMDSS
- SAILOR SP3530 Portable VHF ATEX
- SAILOR SP3540 Portable VHF ATEX GMDSS
- SAILOR SP3550 Portable UHF
- SAILOR SP3560 Portable UHF ATEX
- Dual Watch, Tri Watch and Scanning
- Waterproof (IP67)
- Interface to external accessories e.g. SAILOR 3595 Hand Microphone

The New Fire-Fighter UHF

Communication is vital for the safety and efficiency on board all vessels. When it comes to one of the most extreme and dangerous situation crews can face – the outbreak of a fire – the need for efficient communication for the coordination of fire fighting is even more vital.

On November 30, 2012 the Maritime Safety Committee adopted Resolution MSC.338(91) among which, Chapter II-2 "Construction – Fire Protection, Fire Detection and Fire Extinction" mentions specifically the use of suitable radio equipment.

SAILOR

SAILOR 150/250/500 Fleet Broadband

SAILOR 150 FleetBroadband is a compact, lightweight, easy to install and affordable communication system that provides reliable internet access, email and multiple voice lines. Using the same proven technology as SAILOR's heavy-use FleetBroadband solutions, SAILOR 150 FleetBroadband combines internet connectivity with simultaneous voice calling, ideal for single users and general IP applications.

With data speeds up to 284 kbps from a compact, lightweight and simple to install antenna, **SAILOR 250 FleetBroadband** is the perfect balance between performance and price. It gives you fast data connectivity and voice simultaneously, allowing you to run online operational systems such as remote monitoring, whilst still having access to e-mail, intranet/internet and multiple voice lines.

The SAILOR 500 FleetBroadband is designed for vessels and platforms with demanding requirements for connectivity. It meets the critical needs for voice and data communication of maritime and offshore professionals globally but despite its power, is a compact, lightweight solution. It provides extensive functionality including full access to bandwidth-hungry IP applications, broadband internet/intranet, e-mail, secure VPN and nine simultaneous voice lines.



SAILOR 6300 SERIES MF/HF TRANCEIVER



Based on the same foundation of high reliability, ease of use and leading-edge functionality that has positioned SAILOR as the leading product in maritime communications, the SAILOR 6300 MF/HF DSC Class A offers much more than just a way to meet mandatory GMDSS requirements. In addition to being part of the innovative SAILOR 6000 GMDSS series, it is an integral part of a vessel's communication system and a crucial tool when in distress and rugged, reliable, easy to use communications area must.

- SAILOR Replay – 240 seconds – First MF/HF to offer this feature
- High quality graphical display - perfect night and day vision
- 6W internal loudspeaker for excellent sound quality
- Improved, intuitive and easy to operate menu structure
- Unique, next generation radiotelex software
- Multiple control units
- 150W-250W-500W versions
- ThraneLINK

The SAILOR 6300 MF/HF provides several unique features such as message replay functionality – a first for MF/HF radios, and the ability to connect two control units. A highly efficient power amplifier with control hardware ensures high performance and reliable communication in the marine bands from 1.6 to 30 MHz in TX mode, and ensures constant and full output power on all ITU channels.

SAILOR 6000 SERIES GMDSS CONSOLES

Whether you are sailing on your local coast or cruising in the Polar Regions, SAILOR offers you the right GMDSS consoles required for your ship. With a wide range of flexible console systems we are able to deliver the optimal Global Maritime Distress Safety System for any sea area in the world.

SAILOR A1 Console for Sea Area 1

SAILOR 6222 VHF DSC (Class A)
SAILOR 6215/6216 DSC (Class D)

SAILOR A2 Console for Sea Area 2

SAILOR 6222 VHF DSC
SAILOR 6300 MF/HF Control Unit

SAILOR A3 Console for Sea Area 3

A3 TLX/C solution: radiotelex and Inmarsat-C. Requires SAILOR 6222 VHF DSC, SAILOR 6006 Message Terminal with keyboard and printer SAILOR H1252B for the SAILOR 6110 mini-C GMDSS, and one SAILOR 6006 Message Terminal with keyboard and printer SAILOR H1252B radiotelex and the SAILOR 6301 MF/HF Control Unit.

A3 C/C option: two SAILOR mini-C GMDSS. Requires two SAILOR 6006 Message Terminals with keyboard and two SAILOR H1252B printers. Also includes the SAILOR 6222 VHF DSC and the SAILOR 6301 MF/HF Control Unit. VoIP handsets can also be integrated into the consoles.

SAILOR A4 Console

Four section console with three SAILOR 6006 Message Terminals. One for SAILOR 6110 mini-C GMDSS (for covering sea area 3) and two for MF/HF radiotelex.



DANIAMANT

Bridge Navigational Watch Alarm System BNWAS BW-800

Key Features

- Wheel Mark MED B+D Approval
- Day to day delivery
- 24 months warranty
- Maintenance free system
- Dual Motion Sensor and Selector Unit
- Easy to install and operate
- Input for unacknowledged alarms
- Second generation BNWAS



Electronic Inclinometer DanEL-300

Function

The DanEI-300 Electronic Inclinometer is an advanced heel and pitch measuring device which is not sensitive to horizontal and vertical accelerations. This will provide information to a better understanding of the ship's movement and steering behavior, supervision of trim, cargo status and stability status.



Sensor Unit

Bracket mounting model

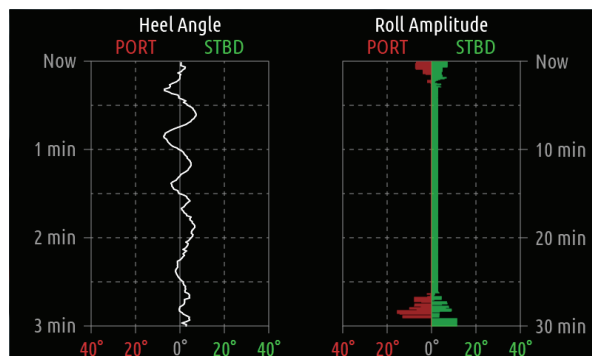
The Electronic Inclinometer measures and displays:

- Pitch Angle
- Heel Angle
- Roll Period
- Amplitude (port & starboard)
- Additional trend plots display heel angle for the latest 3 minutes and roll amplitude for the latest 30 minutes.

Regulations

BSH type approved according to:

- IMO Performance Standards MSC.363(92) (functional compliance)
- IEC 60945 (Environmental conditions)
- IEC 61162- 1, -2, -450 (Serial and network interfaces)
- IEC 62288 (Presentation of information)



Monitor image of 3 min trend plot of heel angle (left) and 30 min of roll amplitudes (right).

Forward Looking Sonar **NEW** FLS 2D & FLS 3D

Daniamant is proud to present a new range of Forward Looking Sonar (FLS). The EcoPilot FLS 2D offers all the best features of the EchoPilot forward sonar range, now diayed on a full colour transfective TFT LCD.

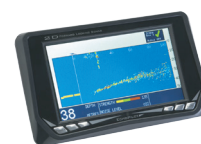
Simple digital sounders show historical data, they may show a depth which is 10 to 15 seconds out of date and represents the sea bed your boat passed over a hundred meters ago. The digital depth on the 2D screen is an average of the st one third of the screen ahead and so is far closer to the reality of what is under your boat right now.

Features

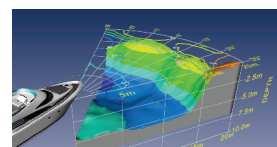
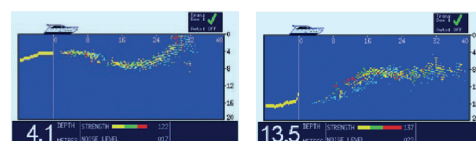
- Real time system
- Update time: 0.5 seconds
- Max Range Ahead 200m
- Max Depth Range 100m
- Digital Depth
- Forward Alarm



Transducer



TFT LCD Display



TP RADIO

THOR1 TP 9000 EX

HAND PORTABLE INTRINSICALLY SAFE RADIO

HIGHLIGHTS

- T4 ATEX / IECEx
- Intrinsically Safe or explosion proof
- Marine standards
- SOLAS Compliant amendment II-2/10
- ON-board UHF
- GAS Protection:
 - ATEX: II 2 G Ex ib IIC T4
 - IECEX: Ex ib IIC T4
- Dust Protection:
 - ATEX: II 2 D Ex ib IIIC T110 °C
 - IECEX: Ex ib IIIC T110°C
- Mining Protection:
 - ATEX: I M2 Ex ib I
 - IECEX: Ex ib I
- 2 Watt Output TX
- 16 Hour Battery life
- IP67 (Submersible)
- CTCSS, 5-TONE, CCIR, ZVEI, EEA & EIA
- Man-down function
- 16 Channels

TP Radio Accessories for **ATEX** Environment

The accessories are products where the quality is equal important and combines mechanical robustness and the latest state of the art with a userfriendly design.

Batteries and Audio Accessories are all IP67 waterproof and specially designed for use in hazardous Environments and it can be used within chemical industries, fire brigades emergency & rescue services, airports, off-shore industries, etc...

The mentioned accessories are ATEX approved for use within petro / chemical environments.

... A SAFE WAY TO COMMUNICATE



ACCESSORIES:

DESCRIPTION

ATEX Battery

High Capacity Li-Ion Battery 3000 mAh
Battery belt clip

ATEX Charger + Adapter

ATEX Charger
ATEX Adapter for BL910
Attachment kit to built a multi charger
Multicharging x5

Carry Cases

Leather case with clip for shoulder harness
Shoulder Harness for BT930

ATEX Audio Accessories

ATEX approved speaker-microphone
ATEX approved external PTT for PELTOR
ATEX approved external PTT for SAVOX

Antennas

UHF 1/4 wave antenna (approx. 17cm.)
UHF 1/4 wave antenna (15-17cm.) 400-470 MHz
VHF Helical antenna (approx. 17cm.) VHF 2m band

Service & Programming Devices

Programming cable/adaptor
Programming of radio (Frequencies, CTCSS, TONE, etc.)

PART NUMBER

BP930EX
BC810

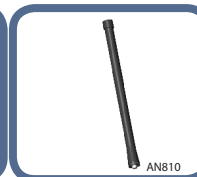
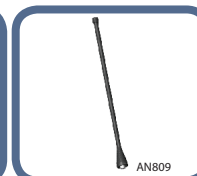
BL910
BL811
AK901
BL910/5

BT930EX
BT803

HM930EX
SW916EX
SW917EX
SW916EX

AN809
AN809/1,2,3
AN810

PK930
PP930EX



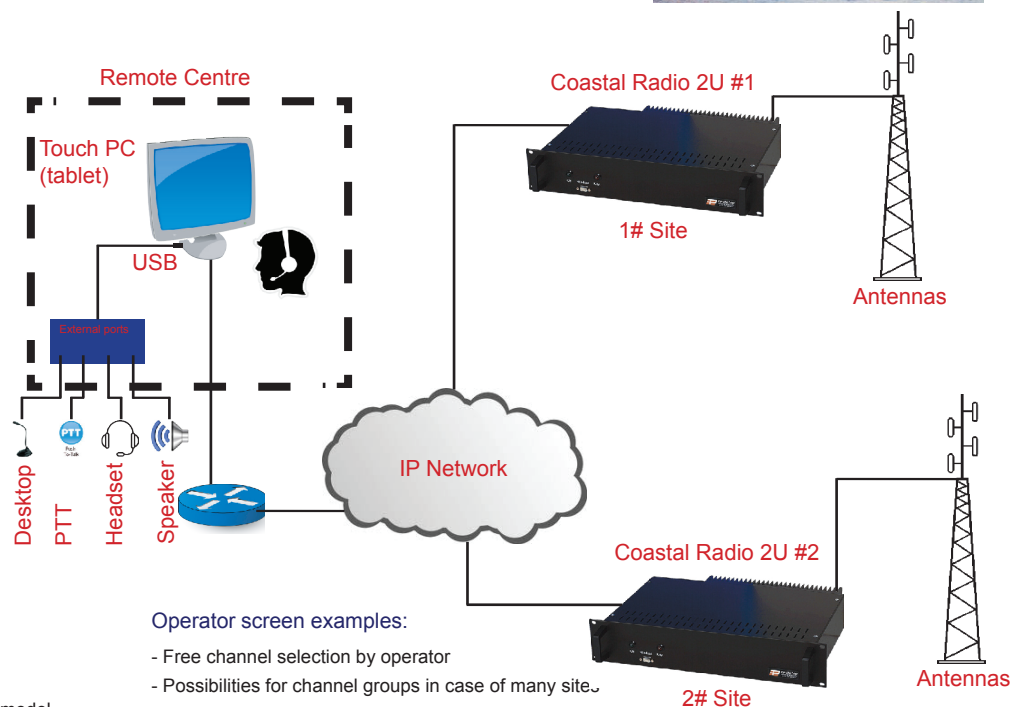
TP RADIO

BS2000 Maritime Base Station

This maritime high performance Transceiver unit is specially designed for the Maritime VHF band and together with the modular structure from the BS2000 Base Station, the complete unit can be custom adapted according to the requirement. Specially designed with some of the highest electrical specifications and guarantee a reliable operation, even in long term stress operation. ETSI Standard EN 301 929-1

Implement the EN 301 929-1 approved transceiver module into your own base station. The Maritime Transceiver-module is designed for two-way voice and data communication in the VHF Maritime frequency band. The Transceiver module is developed for use as a universal stationary communication unit at coasts and inland waterways and is used in TP Radios TP929M Base station.

The VHF Radio System is designed for usage in small Marine Communication Systems in the VHF Band where the GMDSS requirements are needed. It allows to have Marine Communication using Voice or DSC.



System features:

- Various transceivers for communication:
 - Semi-duplex, full duplex, with and without DSC
- Coastal Radio output power 25W model or 50W model
- Coastal Radio Model TP929M EN 301 929-1
- All Maritime Channels in One site
- IP Data transfer
- VoIP Technology
- Only one operator Station in System.
- Up to four Transceivers
- Message automatic recording
- Recording and instant replay from 50 last messages
- Authentication of Operators by user name and password
- All Marine channels can be selected by operator
- Handset with PTT and speakers
- Many possible locations for transceivers
- DSC handling in accordance Class A

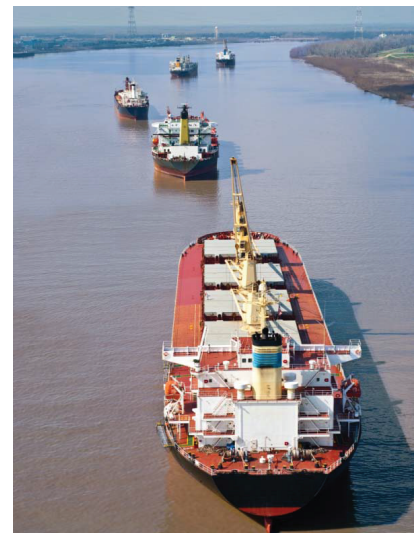
Operator screen examples:

- Free channel selection by operator
- Possibilities for channel groups in case of many site.
- Preselected channels for everyday usage
- Easy choice between predefined channels
- Quick channel selection
- squelch and transmitted power level adjustments separately for each transceiver

Special operator interface for effective work with many transceivers:

- Transceiver status indication
- Default communication via best receiver
- Simplex and duplex channels
- Audio adjustment and personal profiles
- Protected settings

Equipments for the Base Station



SKIPPER

GDS 101 Navigational Echosounder

The SKIPPER GDS 101 is a navigation Echo Sounder with a large, high resolution colour LCD display. The Echo Sounder graphics are continuously shown on the LCD along with complete navigational details. External connectors are provided for printer, VGA and NMEA in/output.

Features :

- Single frequency 38, 50 or 200 kHz
- Colour TFT LCD, with Day/night screen
- Data in/outputs and - Analog outputs.
- Possibility for external printer
- Low and high frequency
- More than 1 month depth recording depending on Compact Flash memory card

System Overview

Operator unit GDS101
Part.no: KO-EN101C



IR301
Reapeter
Part.no: ENIR301



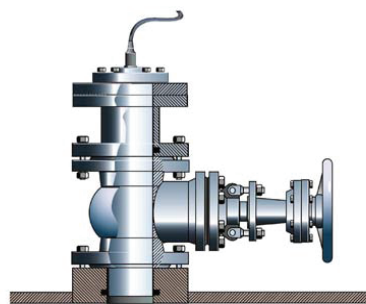
IR30DIM
Remote dimmer for IR301
Part.no: IR30DIM



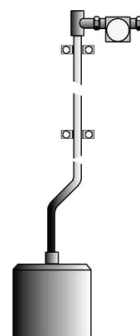
Junction box
Part.no: ZZL-01018



Gatevalve
Part.no: ETNSLJB



Transducer tank
Part.no: ETNST

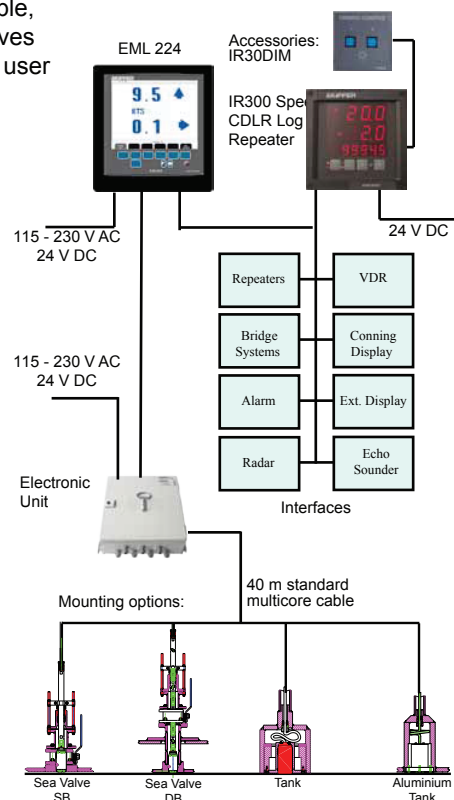
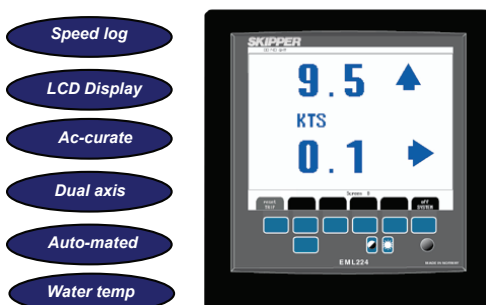


EML 224 Electromagnetic Log

The SKIPPER EML 224 is a dual axis speed log, working on the electromagnetic principle, providing longitudinal and transversal ship speed relative to sea water. The EML 224 gives accurate navigation parameters, measured as they happen, and presented in a logical, user friendly way.

Features:

- Speed through water in dual axis
- Water temperature
- Interfaces - NMEA 0183 and Pulse outputs
- Display - 10,4" LCD Colour Graphic, with full night dimming
- Easy to use, user programmable displays, integrated menus
- Fully automated settings
- Easy setup and diagnostics
- Mounting options - Tank, Sea Valve for single or double bottom hull designs



Saving Time&Money

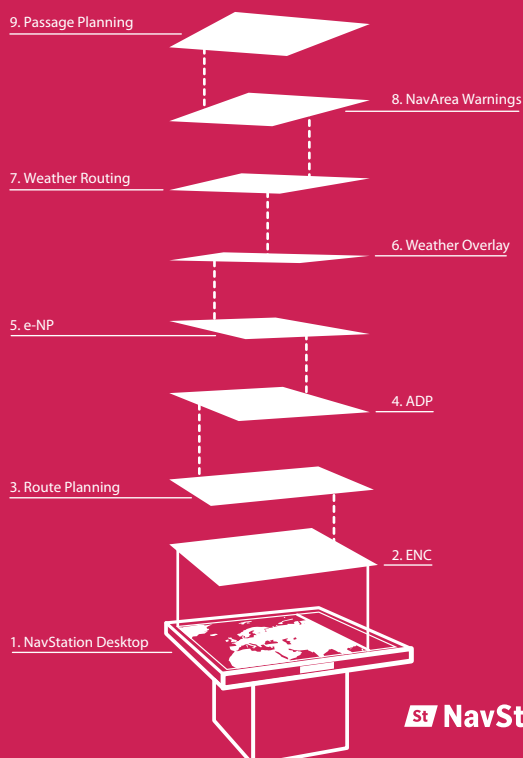


Tr / St / Bx / Sy / Si

Tr / St / Bx / Sy / Si

Realising the full potential of e-Navigation

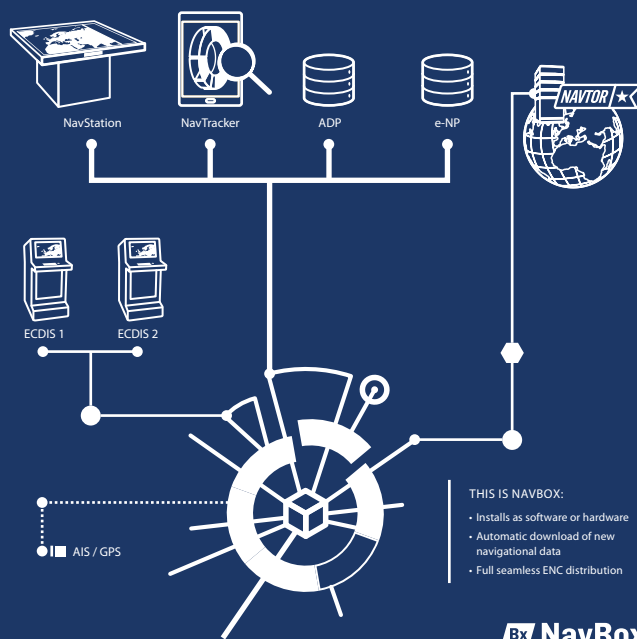
NavStation puts all critical voyage information in one place at the fingertips of navigators. It is the ultimate maritime route planning tool.



Save time with seamless, automatic data distribution

NavBox automates distribution and updating of navigational data, ensuring your vessel will always be fully compliant and up-to-date.

Seamless updating with the NavBox



Bx NavBox



- * Dramatically improved short-range detection performance
- * Meets the newest IMO radar standards and has MED certification.
- * Short-range target detection clearly displays small oceanic targets.
- * Makes the movements of other ships clear and easily detected.
- * Operating environment is easily customized to suit the user's needs.



S band - 8ft 250W solid-state radar antenna

Further miniaturization provides even greater mountability

New Radar Antenna

A newly tuned system cuts search times to roughly 1/4th of what they were previously.

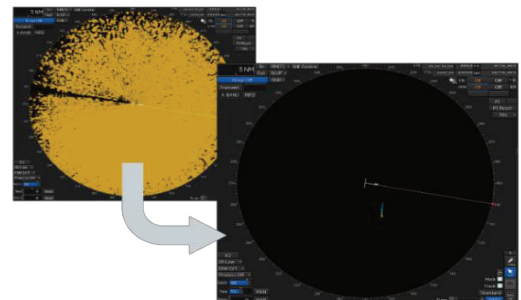
Additionally, thinning of the antenna height means improved drive device reliability.



The newest signal processing technology with highly refined image display

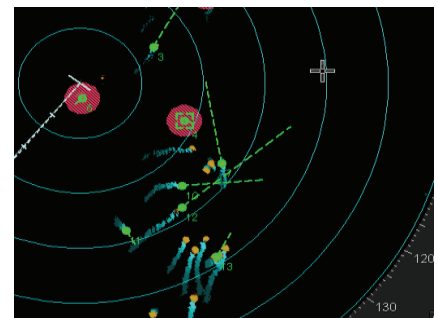
Short-range target detection and clutter removal functionality.

Small oceanic targets that were previously difficult to detect are displayed crisply and clearly. Automatic clutter removal and optimized technology has dramatically improved detection capabilities, and also allows the positions of other ships to be displayed clearly.



TT/AIS display functionality.

Equipped with TT functionality by default, allowing users to mark other ships and points of interest with TT symbols and check the course of nearby objects at a glance. The same highlighting functionality is also available for AIS symbols.



GMDSS & Communication



JRC MF/HF Class A DSC radio equipment features an intuitive user interface and a highly reliable circuit that enables all-mode continuous full power operation.

JRC Immarsat C is a highly reliable mobile satellite data communication system, having the ability to handle commercial, operational and personal messages just as easily as distress and safety communications.

Available as semi-duplex or full-duplex, this class A VHF radiotelephone incorporates advanced modular design that allows for maximum installation flexibility.

The VHF radiotelephone has an intercom functionality for easy communication with multiple other VHF controllers onboard! Additionally, to always be in full control and on top of communication with deck or dock hands, a loudhailer function is built in. An optional external speaker with amplifier increases talk power, making your messaging loud and clear, thereby adding to the safety of the vessel.



Navigation

JRC (D)GPS navigator will locate your position fast and with high accuracy, keeping the unit compact and easy to install. 12-Channel Parallel for simultaneous reception of 12 satellites. The DGPS Navigator composed of a DGPS receiver and a LCD display unit ensures very accurate position fixing.



JRC Speed log series is a Doppler Speed Log compliant with the IMO MSC.96(72) standard, required on all internationally-voyaging ships exceeding 300 GT. Boasting never-before-seen accuracy for speed measurement, the JRC Speed Log is also installed with our company's proprietary bubble detection, which informs you when measurement accuracy is impaired due to air bubble contact. A model featuring color LCD touch panels for the main and sub displays, allowing you to view important information and adjust brightness in all displays from one location, is also available.



JRC AIS is an important piece of navigation equipment for collision avoidance and maneuvering, featuring an all new display and a transponder designed for long range reception.



JRC The Bridge Navigational Watch Alarm System (BNWAS) main purpose is to monitor the presence of watch officers and their alertness for early detection of unsafe sailing conditions.



JRC(Japan Radio Co., Ltd.)is a group of communication technology professionals to work for connecting your feeling and thoughts

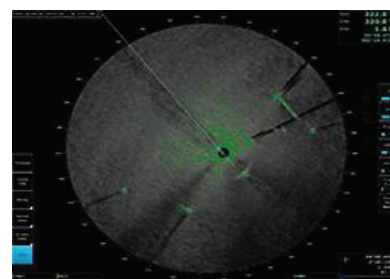
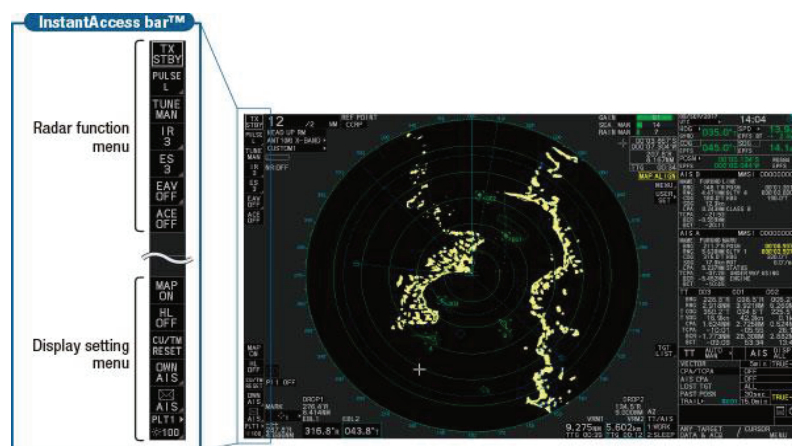
FURUNO

Advanced technologies for safe navigation FURUNO Radar is a brand-new radar series characterized by its state-of-the-art antenna design and innovative signal processing techniques. FURUNO's latest and finest technologies and intuitive design will increase situational awareness and enable safer than ever navigation.

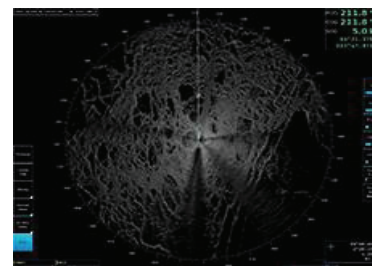
Automatic Clutter Elimination (ACE) for unprecedented echo clarity. Quickly adjusts the radar image with of a single button press. When the ACE function is activated, the system automatically adjusts clutter reduction filters and gain control according to the sea and weather conditions.



Fast Target Tracking™ (TT) function to prevent collision at an early stage. With Fast Target Tracking™ (TT), the Furuno provides accurate tracking information; speed and course vectors are displayed in mere seconds allowing operators to take action and avoid incidents at a very early stage. User interface designed for the ultimate intuitive operation. InstantAccess bar™ which gives you immediate access to the functions you need.



Oil Radar detects oil at sea, for use in recovery operations during oil spills.



Ice Radar is suitable for all sizes of vessels in icy conditions



YOKOGAWA-ANSCHUTZ

YOKOGAWA GYRO COMPASS

- A modular design saves the space. Master compass can be integrated in the autopilot steering stand.
- Manual and automatic speed error correction
- External heading sensor can back up the heading outputs.
- Heading deviation monitoring
- Steering mode input inhibits the unusual operation of Master compass and secure the current heading information during auto-steering mode.
- Serial data output IEC 61162-2 (high-speed transmission)
- A unique anti-vibration mechanism enhanced by the velocity damping effect of high viscous oil, provides superior damping of vibration and decoupling of shock at sea.
- The gyrocompass reading changes smoothly and does not lag when a small ship rapidly changes course.
- Easy maintenance and long maintenance periods



CMZ900 series

CMZ900B : Single-unit model, suitable for small vessels

CMZ900B2 : Single-unit model, suitable for small vessels

CMZ900S: Single-unit model, suitable for all types of merchant vessels

CMZ900D: Dual-unit model for extra reliability



Bearing Repeater Compass



Steering Repeater Compass

ANSCHUTZ GYRO COMPASS

- High accuracy and reliability
- Designed for highest operational safety under harshest environmental conditions
- Short installation time and long maintenance periods
- Manual and automatic speed / latitude error correction
- Quick settling reduces the settling time to 1 hour (option)
- Intelligent features as a heading management system
- Modular product range to meet individual requirements on a cost-efficient basis
- Seamless integration into various system environments due to a multitude of interfaces and formats
- IMO approved for standard and high-speed crafts and as rate-of-turn gyro

The Standard 22 gyro compass was designed as a modular system to meet customer requirements.

The system consists of up to three gyro compasses and can include an operator unit and a distribution unit. Another gyro, a magnetic compass, a satellite compass, and/or an external rate-of-turn gyro can be integrated as additional sensors. A wide range of accessories is available.



Steering Repeater Compass



Bearing Repeater Compass

Integration of further compasses



Distribution Unit



Operator Unit



Digital Repeater



Nav Data Repeater



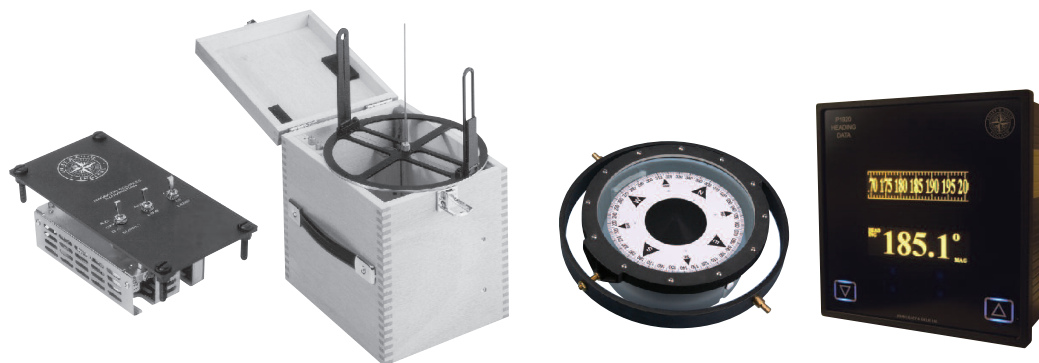
LILLEY&GILLIE - CASSENS&PLATH

LILLEY & GILLIE MK2000S Magnetic Compass

Magnetic Compass Outfit

For commercial vessels over 150 GRT fishing vessels over 35m naval vessels with or without DG correction

Suitable for use with Lilley & Gillie (and other) Transmitting Magnetic Compass (TMC) equipment to operate repeaters, off-course alarms and outputs to navigation equipment including gyro back up



Design Features

- * Reduced shipyard installation work
- * Improved watertightness around deck/periscope area
- * Simple periscope assembly installation and removal
- * Low weight
- * Low voltage lighting within the binnacle
- * Mounting arrangements for various TMC sensors

CASSENS & PLATH MAGNETIC COMPASS

Reflecta73 Type 21

REFLECTA/3 is a reflector compass binnacle for worldwide use. It meets all national and international rules. Card diameter is 160 mm and standard card height above deck level 1100 mm. The total length of the optical reflector arrangement to the helmsman's position in the wheelhouse is limited to 3 m. Horizontal optical by-passes of maximum length 2 m can be provided. REFLECTA/3 comprises all necessary components: magnetic reflector compass, azimuth device, reflection arrangement, deviation correctors (Flinder's bar extra), illumination, emergency illumination and installation material. Approvals and specification are same as REFLECTA/1 but dimensions are slightly reduced. For longer optical arrangements REFLECTA/2 has to be selected. REFLECTA/4 and REFLECTA/5 are variants with short binnacle column and without bearing ability only for coastal navigation.



Standart Azimuth Device

Magnetic Compass Type/21

Flinder's Bar

Reflector Compass Binnacle

COMNAV



VECTOR G1/G2-G2B GPS COMPASS

- Small compact all-in-one maintenance free unit
- Fully compatible with NMEA 2000 or 0183 equipment: Autopilots, Radar, AIS, Plotters, etc.
- 90° Rate of Turn tracking (ROT)
- Provides Heave, Pitch and Roll information
- DGPS provides sub-meter positioning accuracy
- Differential Correction source SBAS (WAAS, EGNOS and MSAS) and RTCM SC-104 data (External Source)
- Integrated Gyro & Tilt sensors provide fast start up times and Heading updates during temporary loss of GPS
- 20 Hz position and Heading update rates (10Hz standard)
- Pre-programmed default settings for Heading, Rate of Turn, Course over Ground, Lat/Long Geographic position, Time & Date
- 2 year warranty
- World wide service

ADMIRAL P2/P3/P4 AUTOPILOT SYSTEM

- Auto Learning using IST Technology
- Auto Setup — automatic drive detection, automatic pilot calibration & automatic compass compensation
- Auto Sea State adjustment for reliability in all weather condition
- WHEELMARK certified, IMO compliant
- Sunlight Viewable TFT LCD QVGA (320 x 240) display
- Advanced Power Features include automatic helm bias, automatic leeway control for minimizing course errors due to wind and tide and automatic thruster assist for dead-ahead slow or station keeping
- NAV Mode provides adaptive precise track steering
- NMEA 0183 input/output ports
- Quick Turn Selection — continuous circle, U-turn, Emergency MOB to steer the Williamson-Recovery turn
- Proportional Rate Control to provide gentle smooth response at fast cruising speeds
- Waterproof — Control head to commercial grade IP67 standards
- Extended 3 year warranty

AUTONAUTIC

AUTONAUTIC INSTRUMENTAL MAGNETIC COMPASS



c3001/c3002
65mm
Surface Mount



c12 Plus Series
0021 - 100mm
Flush Mount



c15/150 Series
0063 - 100mm
Flush Mount



C20-00130
125mm
Wooden Compass



00122
125mm
Wooden Compass



che 0078
125mm
Roofline Compass



Chronometer



Barometer



Hygrometer



Thermometer



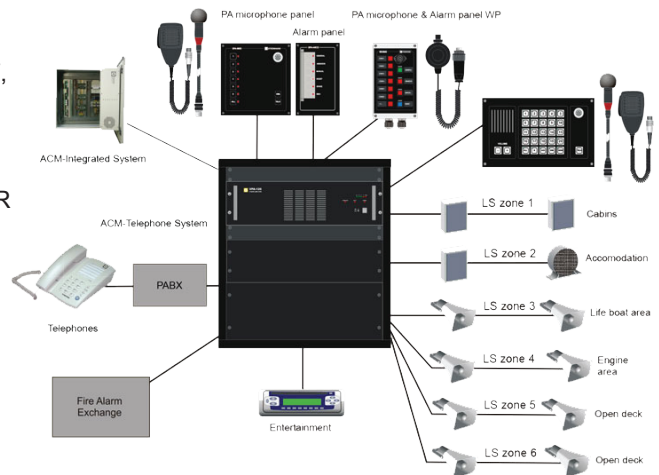
Weather Stations



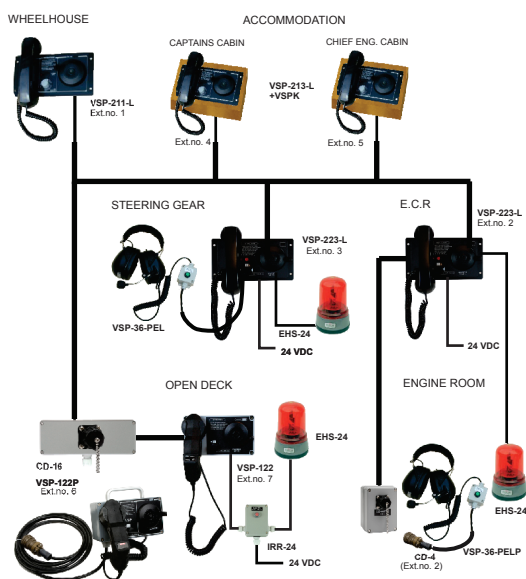
PHONTECH & VINGTOR

PUBLIC ADDRESS & GENERAL ALARM SYSTEM

- * Standalone PA and GA system made for the marine environment
- * 19" rack w/screw terminals for ship cable network
- * Power Amplifiers, 100 V line with alternative power output of 120W, 240W or 400W
- * Provides monitoring of power amplifiers
- * 6 zones selection + ALL
- * VINGTOR integrated PA/GA solution in combination with VINGTOR ACM XE
- * Input for 3 microphone panels
- * AUX / Alarm input
- * Input from Talk-Back system
- * Input from PABX (preselected zones)
- * Mains 230 V AC/24 V DC w/auto switch-over
- * Note! 110V AC on request
- * Built-in pre-amplifiers
- * Wide set of microphones and alarmpanel



BATTERYLESS TELEPHONE SYSTEM



The VSP system is independent of the vessel's power supply and fulfils the demands for emergency communication between vital positions on board. The system has a versatile range of light but robust and corrosion-resistant stations for all on-board environments. The various VSP stations can be delivered for panel, desktop or bulkhead mounting.

THREE SYSTEMS

- * 12-Way system consisting of up to 12 main stations with selector switch for selective calling between all connected stations
 - * 20-Way (M) system consisting of up to 20 main stations with selector switch for selective calling between all connected stations
 - * Intrinsically safe VSP set for units in hazardous areas
- Note! For 12-Way only

FEATURES

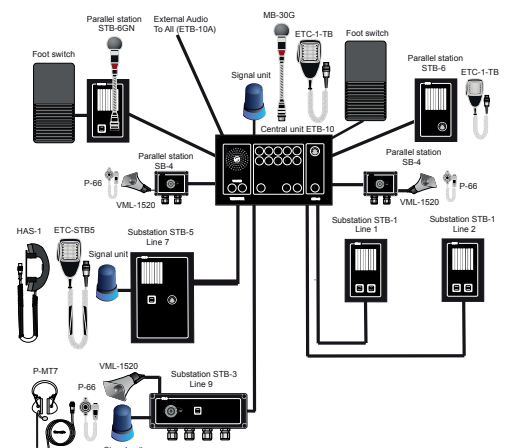
- * Provides emergency communication independent of the vessel's power supply
- * Excellent speech quality
- * Model with noise compensated microphones
- * Model built-in or separate relay for operation of signal units
- * Supports headset directly connected to stations or via plug box
- * Supports a wide range of stations for ship environment

TALK-BACK SYSTEM

The system comprises a central unit and a comprehensive range of substations and other field equipment for use indoors, outdoors, and in noisy areas on marine vessels. Physical dimensions of the units are based on the Euro DIN standard and are integrated seamlessly into bridge solutions.

FEATURES

- * Command Talk-Back
- * Dimmable call light
- * 5 or 10 line selection
- * Step volume control
- * Output for extra signal device - all lines
- * Handheld or gooseneck microphone
- * Output for parallel microphone and loudspeaker
- * Handsfree operation with foot switch
- * Console or wall mounting
- * Power: 22-32 VDC
- * Audio input from external system (ETB-10A and ETB-100A)
- * Public Address 100V line power amplifier (ETB-100/ETB-100A)



Scan-Antenna

AIS Antenna

AIS54

4 dB AIS Glass Fibre Antenna 1.37 m with fixed 10 or 20 m cable

AIS56

6 dB AIS Fibreglass Antenna 2.7 m with fixed 10/20 m cable

AIS76

6 dB AIS Fibreglass Antenna 2,6 m

VHF Antenna

VHF54

4 dB Marine VHF Glass Fibre Antenna 1.37 m with fixed 10 or 20 m cable

VHF56

6 dB VHF Glass Fibre Antenna 2.7 m with fixed 10 or 20 m cable

VHF76

6 dB VHF Fibreglass Antenna 2.6 m

Navtex Antenna

Navtex Tri-Band

Active low-profile 3-band Navtex antenna

Active 3-band Navtex (Navigational Telex) antenna

Low-profile end-fed multiband antenna design

No groundplane needed

Mounting kit for mounting on G1"-11 threaded pole or bracket included

Dedicated Power supply available (not included)

MF-HF Antennas

HF500 TX/RX

5 m two-part LF/HF Fibreglass Antenna

Designed for GMDSS installations

HF6000 TX/RX

6 m three-part LF/HF Fibreglass Antenna

High quality 6 m high HF antenna for professional use

Designed for GMDSS installations

HF700 TX/RX

7 m two-part LF/HF Fibreglass Antenna

High quality 7 m high HF antenna for professional use

Designed for GMDSS installations

HF8000 TX/RX

8 m three-part LF/HF Fibreglass Antenna

High quality 8 m high HF antenna for professional use

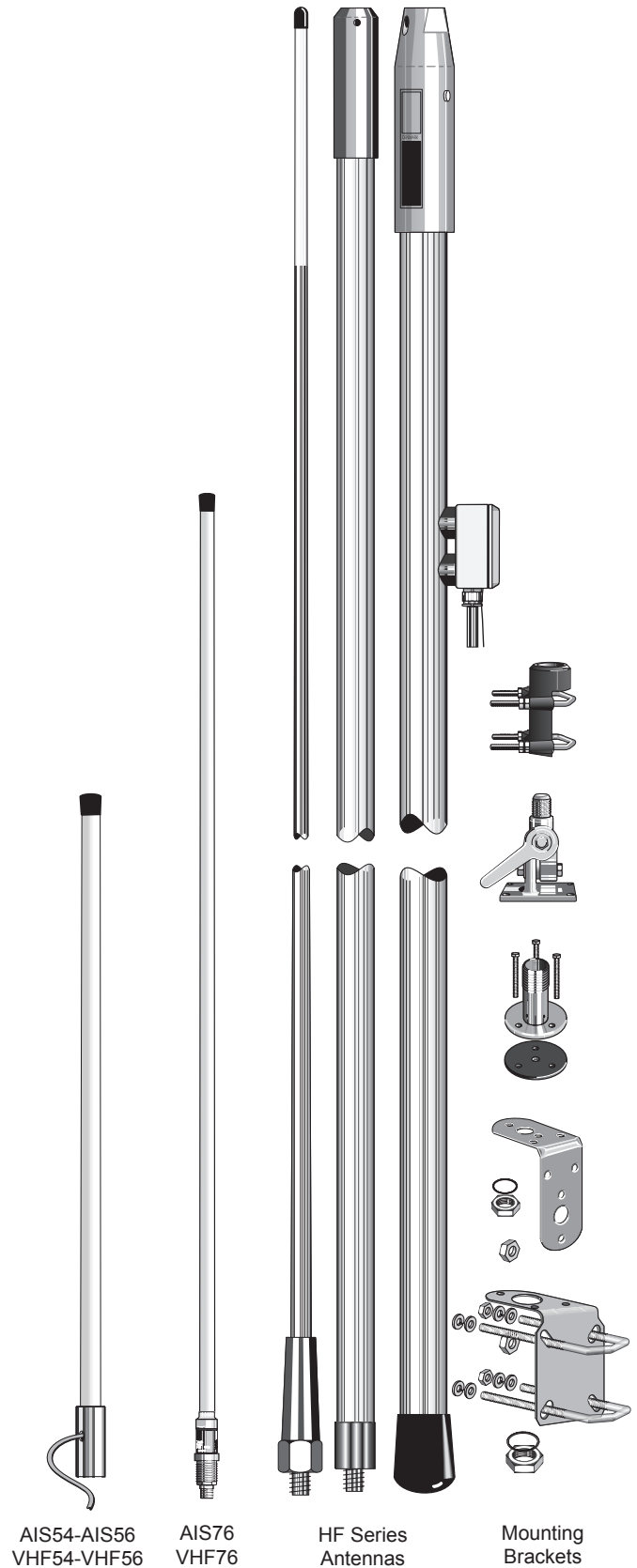
Designed for GMDSS installations

HF9200 RX

9 m three-part LF/HF Fibreglass Antenna with coaxial connection box

High quality 9 m high HF antenna for professional use

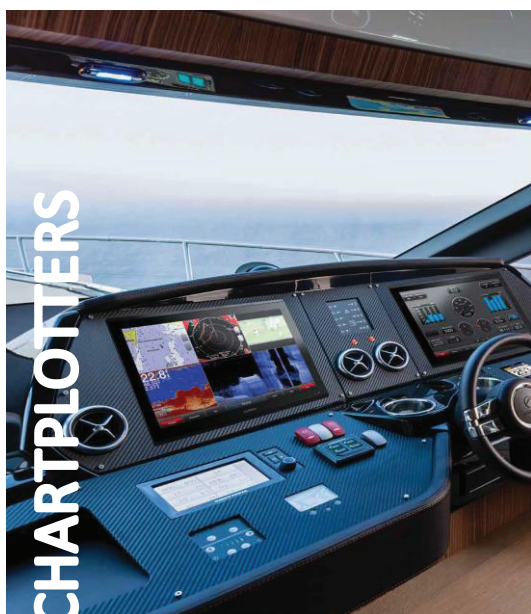
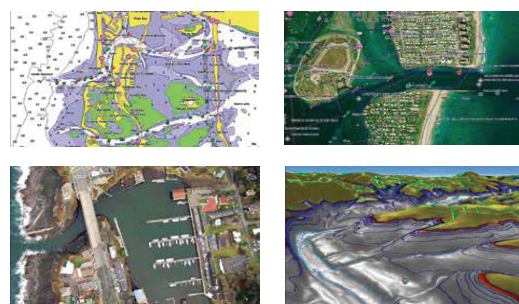
Built in matching transformer for low frequency receiving





CARTOGRAPHY AND APPS

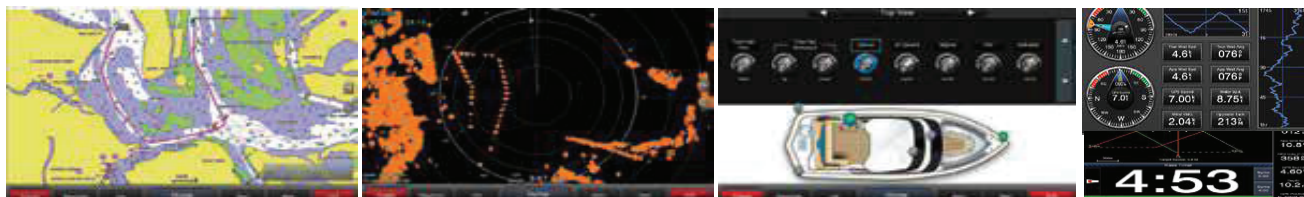
THE BEST OF GARMIN WITH
THE BEST OF NAVIONICS®
Experience unparalleled coverage and brilliant
detail when you're on the water.
BlueChart® g3 coastal charts and LakeVü g3
inland maps now provide industry-leading
coverage, clarity and detail with integrated
Garmin and Navionics content.



(Built-in Wi-Fi®, ANT®)

Large-format multifunction displays feature full, HD in-plane
switching (IPS) touchscreens that provide consistent, accurate
colors from all viewing angles even while wearing polarized
sunglasses.

This series includes preloaded BlueChart® g3 U.S.
coastal charts and LakeVü g3 U.S. inland maps with integrated
Navionics® data and Auto Guidance1 technology.



- * OneHelm™ and EmpirBus bring full control of all your onboard boat systems, such as digital switching, lighting, propulsion, pumps, air conditioning and infotainment, to your MFD screen
- * Presets for sonar, radar, cameras, media and digital switching can be independent or incorporated into SmartMode station controls
- * Ethernet ports, NMEA 2000®, HDMI and USB ports, FUSION-Link™ integration

GARMIN

VHF



AIS



AUTOPILOT



FISHFINDERS



INSTRUMENTS



WIND SYSTEMS



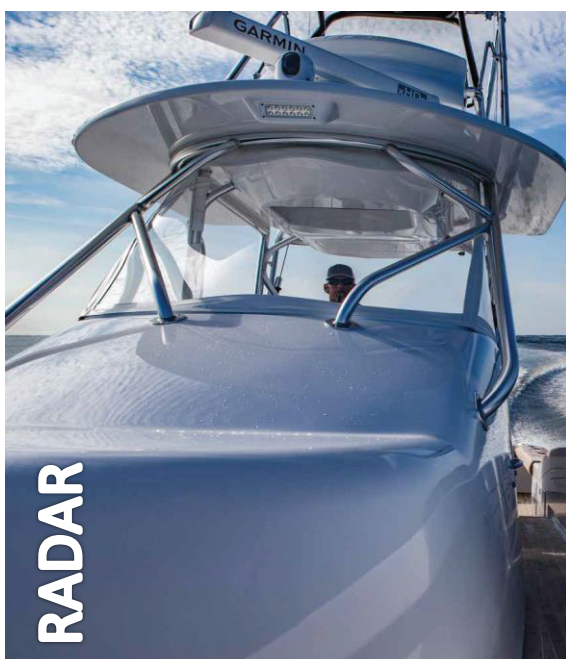
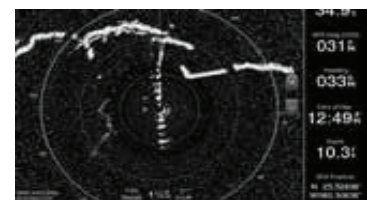
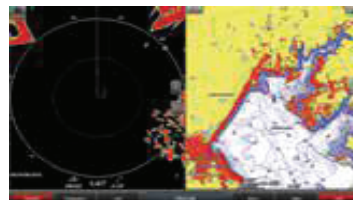
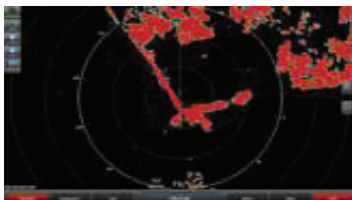
CAMERAS



WEARABLES



HANDHELDS



Garmin radars feature MotionScope™ technology, which uses the Doppler effect to detect and highlight moving targets to help you avoid potential collisions, find flocks of birds and track weather.

Their intuitive operation makes modes and settings simple to understand so you can enjoy great performance without a lot of technical know-how.

Just install it and start using.

Garmin radars provide reliable, optimum performance in all conditions.

These radars fully integrate with Garmin chartplotters.

SIMRAD



The Simrad multi-function displays combine advanced navigation features and a range of powerful sonar technologies to help you plan your trips and reach your destination safely and make successful fishing.

Sonar screens, maps, engine data and everything you need to personalize as you want and you can view at any time you need.













VelocityTrack™, launched for the first time in the sector with the Simrad Halo series, is a technology that simplifies tracking and maximizes safety by marking Upcoming, Away and Still targets within range with different color tones.



ICOM IC-M323/M423 VHF-DSC TRANCEIVER



-  Built-in GPS Receiver Simplifies Installation
-  Active Noise Cancelling for Maximum Clarity
-  Icom Marine Family User Interface & White Backlit LCD & Keypad
-  10W Loud Audio, Public Address and Foghorn
-  Optional COMMANDMIC HM-195GB/GW for 2nd Station/Intercom
-  Built-in Class D DSC (Meets ITU-R M493-13)
-  IPX7 Waterproof Protection (1m depth for 30 minutes)
-  Common NMEA Interface for GPS/NAV Connection
-  MarineCommander MA-500TR Compatible
-  AquaQuake Function



IC-M73EURO
Slim, Stylish, Powerful VHF with Professional Features

IC-M25EURO
Slim, Lightweight with High Performance

IC-GM1600E
SURVIVAL CRAFT 2-WAY RADIO
GMDSS Portable for Survival Craft

IC-M87ATEX
ATEX Intrinsically Safe
Marine Channels

i-MARINE

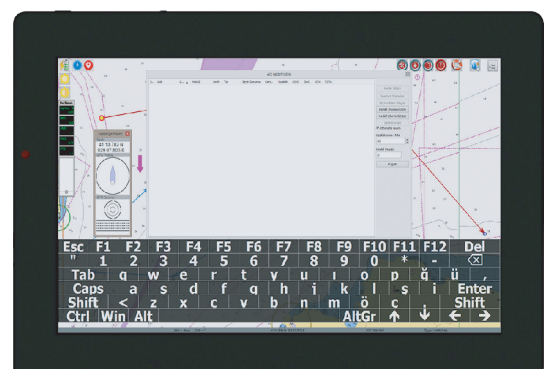
i-Marine i-AIS Class B CS Transponder

i-ais-TB CS is an advanced Class B "Carrier Sense" AIS Transponder which improves the safety of navigation by assisting in the efficient navigation of ships and small craft, protection of the environment and operation of Vessel Traffic Services (VTS).

i-ais-TB CS Class B AIS Transponder is capable of providing vessel information automatically, continuously and with the required accuracy and update rate. It can be used for collision avoidance (in a ship-to-ship model), traffic management (as a VTS tool in ship-to-shore mode) and obtaining information about the craft.

In addition to standard Class B CS features; i-ais-TB CS has advantageous functions that can be used by local authorities. It generates and transmits alarm messages according to pre-defined rules (i.e. entering a prohibited zone, over-speed in a defined area); automatically switches to high power output (12.5 W) mode for pre-defined regions (i.e. wide range inland sea) and Search and Rescue (SAR) event. Moreover it filters MMSI numbers of other fisheries vessels to hide hunting regions, informs the authorities in case of intentional power cut-offs to prevent tracking and provides black box feature for analysis of past events.

- * Zone based rules and adaptive operation
- * Automatic output power setting
- * Special functions for fisheries management
- * SAR Buttons (Fire, Security, Health, Accident)
- * Information for intentional power cut-offs
- * Collision warning messages
- * Black box feature
- * Compatible with i-SEA platform



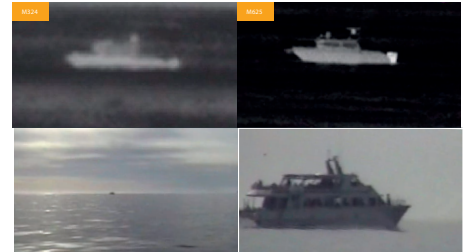
FLIR MD324/MD325 STATIONARY THERMAL FOR NAVIGATION AND ONBOARD SURVEILLANCE

The MD-Series is an affordable, compact, fixed thermal-only night vision system that aids in navigation, collision avoidance, and onboard surveillance at night. It is simple to mount and easy to integrate into existing electronics. Standard analog video can be easily displayed on almost any monitor on the vessel. The MD is available in 640x480 or 320x240 resolution and can be mounted ball up or ball down. You can change color palettes, change the digital zoom, or adjust contrast settings from supported network-enabled multifunction displays, a PC, or the FLIR mobile app.



FEATURES

- 320x240 or 640x480 resolution
- Digital zoom
- Small, lightweight design
- Analog video integrates into most multifunction displays
- Supports ball up or down mounting
- Multiple control options



FLIR M132/M232 LOW COST PAN/TILT THERMAL FOR CLOSE-RANGE APPLICATIONS

The M132 compact adjustable tilt camera is FLIR's smallest, most affordable installed marine camera. Featuring a resolution of 320 x 240, the M132 improves safety by revealing vessels and obstacles at night. The M132 offers adjustable tilt for optimal positioning while underway. The M232 pan and tilt camera is one of FLIR's smallest and affordable marine thermal cameras. Enjoy 360 degree viewing while underway. Combine the M132 with a Raymarine Axiom MFD and take advantage of FLIR's ClearCruise™ intelligent thermal analytics. ClearCruise™ provides audible and visual alerts when "non-water" objects—such as boats, obstacles, or navigation markers—appear in the scene.



FEATURES

- Tilt-only (M132)
- Pan and Tilt (M232)
- 320 x 240 thermal resolution
- Digital zoom
- Small, lightweight design
- IP video or optional analog connectivity
- Intelligent ClearCruise™ analytics with Axiom display
- Supports ball up or down mounting



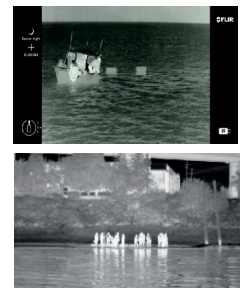
FLIR M400/M400XR LONG-RANGE HIGH-PERFORMANCE MULTISENSOR SYSTEM

The M400 is a powerful long-range, stabilized multi-sensor maritime imaging system. With a 640 x 480 sensor and optical zoom lens the M400 can detect a 30' outboard vessel at more than 3.5nm in total darkness, and is packed with features for the most demanding first responder and commercial applications.



FEATURES

- Long-range imaging performance
- High intensity LED spotlight illuminates targets of interest
- HD color and low light camera with 30x optical and 12x digital zoom, respectively
- Gyro-stabilization keeps image steady in rough water
- Rugged, proven, waterproof FLIR gimbal with automatic window heaters for ice management
- 360° pan and ± 90° tilt control for uninterrupted and continuous tracking
- Radar integration enables camera slew-to-cue and tracking capabilities
- Network-enabled for command, control, and information sharing
- Optional video tracker holds the camera on objects in the scene and reduces operator fatigue (XR Option)
- Optional high temperature mode includes special high-temperature calibration, on-screen temperature measurement, and radiometric isotherms optimized for firefighting missions (XR Option)



FLIR HANDHELD THERMAL CAMERAS

Ocean Scout 240/320/640 Series



BHM X+ / BHM XR+ Series



STRIXMARINE

THERMAL IMAGER NIGHT VISION CAMERAS

Strixmarine thermal imager night vision heat detector cameras utilize unique technology to perfectly stabilize a high-resolution image even on small vessels and rough sea conditions. The camera systems are designed to be used for various demanding marine applications like SAR (Search and Rescue) boats, law enforcement vessels, high-speed patrol craft, work boats, fishing boats, cruise ships, commercial vessels and other types of vessels.

The camera can provide equally clear, high-resolution video feed at 50Hz frequency in total darkness, as well as in bright sunlight. You can even see through smoke and fog.

Camera is gyro-stabilized in two axes to counteract the motion of the boat or ship and providing a live video feed that's stable to 0,01° of its central axis at accelerations of up to 9g. The algorithms adapt to the situation and any possible vibrations. The system works instantly upon being powered up and needs no calibration or special setup.

Camera is controlled in two axes- pan and tilt. To maximize the comfort, user can choose either fixed, dashboard controller, or wireless, portable control unit.

Strixmarine cameras are worldwide online supported via 4G/3G internet connection for software updates, parameters settings, configuration adjustments and remote troubleshooting.



- * Perfect active gyrostabilization even in extreme conditions
- * 360 degree continuous panning, -35 deg to +35 deg tilt
 - * Automatic tracking
 - * Wireless Control
- * Rugged construction, high level protection



Camera is compatible with most chartplotters, including Simrad, Raymarine, Garmin, Lowrance, Furuno, external monitors and other devices with AV input.



SAR OPERATIONS

- Quick and easy search for anomalies even on rough sea conditions
- Safe and exact navigation during the SAR operation
 - Recording SAR or or MOB operations
 - Keeping track of waves

OIL POLLUTION DETECTION

- Oil spill detection camera systems for the oil rig
 - Oil spill area border tracking
- Integration options with boom installation
 - Navigation at zero visibility

LAW ENFORCEMENT

- Identification of the vessels at limited visibility
- Detecting illegal traffic on sea, pollution monitoring
 - Detecting unexposed boats
 - Blind pilotage assistance
 - SAR operations

PLEASURE CRAFT

- Navigation on reduced visibility and in the dark
 - Simplified entry to the Harbours
- Man overboard (MOB) search and track operations
 - Collision avoiding
 - Keeping track of waves

ICE DETECTION

- Detecting ridged ice
- Detecting random ice banks
- Finding open water in dense ice
- Ensuring extra safety in high speed navigating



NETA Marine

MRA45 - SATELLITE TV ANTENNA



Antenna Type	Cassegrain
Outputs	3 or 4
Specifications	AutoSkew, GPS
Optional	Dynamic Skew, Multiswitch, DVB-S2
LNB type	Universal Quad ya da Quadro
Frequency Band	Ku Band
Frequency Bandwidth	10,70 ~ 12,75 GHz
Antenna Gain	33,7 dBi
Min EIRP	46,5 dBW
Polarisation	H/V
Engine Control	2 axis stepper motor
Vertical Motion Range	10° ~ 70°
Horizontal Motion Range	680°
Vertical Movement Speed	60° /sec.
Horizontal Movement Speed	60° /sec.
Satellite Crash Time	<10 sec.
Controlbox Connection	Single Cable
Storage Temperature	-30°C ~ +70°C
Working Temperature	-15°C ~ 50°C
Supply Voltage	12 ~ 24V
Antenna Diameter	45 cm
Controlbox (WxDxH)	26x18x5 cm
Dimensions (DxH)	53x56 cm
Weight	13,5 kg



MRA60 - SATELLITE TV ANTENNA



Antenna Type	Cassegrain
Outputs	3 or 4
Specifications	AutoSkew, GPS
Optional	Dynamic Skew, Multiswitch, DVB-S2
LNB type	Universal Quad ya da Quadro
Frequency Band	Ku Band
Frequency Bandwidth	10,70 ~ 12,75 GHz
Antenna Gain	36,2 dBi
Min EIRP	44 dBW
Polarisation	H/V
Engine Control	2 axis stepper motor
Vertical Motion Range	0° ~ 70°
Horizontal Motion Range	680°
Vertical Movement Speed	60° /sec.
Horizontal Movement Speed	60° /sec.
Satellite Crash Time	<10 sec.
Controlbox Connection	Single Cable
Storage Temperature	-30°C ~ +70°C
Working Temperature	-15°C ~ 50°C
Supply Voltage	12 ~ 24V
Antenna Diameter	59 cm
Controlbox (WxDxH)	26x18x5 cm
Dimensions (DxH)	66x72 cm
Weight	19,5 kg

ISIC MONITORS



DuraMON monitors are designed for marine and naval mission, critical applications for ECDIS, WECDIS and RADAR.



DuraMON Glass 19" Radar & Ecdis

- Standardisation and easy integration
- Simplicity in operation
- Modular & space saving
- Low weight
- Long up time and less service
- Long built-state possibility
- Low Power consumption
- High quality display 19" 5:4 format
- Compliant with IEC 60945 and IACS E10
- ECDIS / RADAR options
- Full range backlight dimming
- Touch keys with dimmable backlight
- Desk/ceiling and wall mounting-brackets available
- Optional Buzzer
- Optional ECDIS calibration

DuraMON Glass 24" & 27" Wide Screen for Radar & ECDIS

- Standardisation and easy integration.
- Simplicity in operation.
- Modularity & space saving.
- Low weight
- Long up time and less service.
- Long built-state possibility.
- High quality displays in Wide Screen Format
- Compliant with IEC 60945 and IACS E10.
- 26" complies with RADAR CAT I, II and III
- 24" complies with RADAR CAT II and III
- 27" complies with RADAR CAT I, II and III
- ECDIS/RADAR options.
- Touch keys with dimmable backlight.
- Full range Backlight dimming
- Desk/wall/ceiling mounting-brackets available
- Customisation available.
- Excellent dimming performance to black

DANIAMANT - LONAKO - FIBRELIGHT

DANIAMANT LIGHTS

LIFEJACKET LIGHTS



W4-A / M4-A Alkaline
(Auto-Man)



W3 / WR3 (Lithium)
(Auto)



M3 / MR3 Lithium
(Man)



L6-Ex
Intrinsically Safe

LIFEJBUOY LIGHTS



L90 Alkaline



L170 Lithium



L161 Ex
Intrinsically Safe

LONAKO LIGHTS

LIFEJACKET LIGHTS



LNK-03A1



LNK-LSL-3A
Explosive Proof

LIFEJBUOY LIGHTS



LNK-LB-02B
Manual



LNK-LB-01B
Automatic



LNK-LSL-1B
Explosive Proof

FIBRELIGHT RECOVERY CRADLE

The carbon fibre rods are enclosed in flanged tubular webbing, when fitted and sewn at right angles between the double thickness pockets of a second webbing an incredibly strong structure is created.

Fibreight Cradles are available in lengths of 2, 3, 4 and 5 metres and are 1.3 mtr wide. The Cradles are amazingly lightweight, a 3 metre cradle weighs as little as 5 kilograms.



The SOLAS approved Fibreight Cradle is a maritime recovery system that can be operated by a single crew member. The Cradle can also serve as a boarding ladder, scramble net and stretcher.



The Fibreight Cradle is lighter, more compact, and more versatile than any comparable devices. The cradle requires only regular inspections and minimal maintenance every three years. The cradle can be easily rolled and stowed.

CONSULTING & SOFTWARES

MARITIME CONSULTINGS ;

- New Build Vessels Documentation Consulting & Paperworks,
- New Builds Navigational Products Budget Consulting,
- SOLAS Chapter V Rules and GMDSS Conditions Consulting,
- International New Mandatories and Maritime Rules Consulting,
- Ship Energy Efficiency Management Plans,
- Monitoring Reporting & Verification Plans,



SHIP MANAGEMENT SOFTWARES ;



- Planning Maintenance System Software
- Ship's Stock Spare Parts Control & Reports,
- Ship Safety and Critical Equipment History Follow up,
- Ship's ISM & ISPS Documentation Software
- Ship Budget Management & Running Cost Reports
- Maritime Human Resource Software acc. to MLC 2006

WORK & REST HOURS SOFTWARE ;

You can record & calculate all your crews working and resting hours data by this product according to MLC 2006 rules. Also you can cross check your working and resting hours to your Log-Book records (bunkering, maneuvering etc...) with our "speacial module" which we have unique in our software's. You will be confortable all of your External (Port state, Flag State..etc) and Internal inspections...



VOYAGE MANAGEMENT SOFTWARE ;

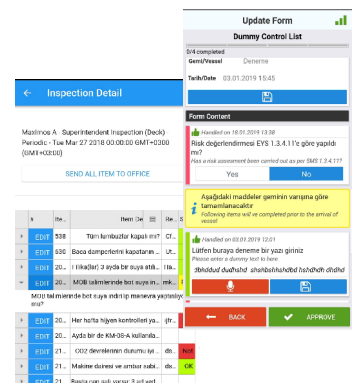


Voyage Plans Preparation & Controls,
Voyage Operations Follow Up with All Details,
MRV (EU) and DCS (Data Collection System-IMO) Report

INSPECTION APPLICATION ON PHONES & TABLETS ;

You can use this application with your cellular phone or portable computer during on board. And when you finished your inspections, you can synchronous instantly by your office. Also you can remote control by your portable devices. You can prepare your AUDIT Reports which format you like.

Remote control and inspections over mobile application is
WHEREVER YOU ARE ...





YDDO was found last quarter of 2007 in Canakkale & Istanbul. In 2008, YDDO was started to sales navigational and safety products to domestic vessels.

In 2009, YDDO was started to sale BNWAS and other navigational equipments according to IMO Requirements to professional market with pleasure market customers.

In 2010 YDDO Software was founded other software specialist partners. Produced own software named ShipperNetix which is a Ship Management System Software. In 2011 started to market & sale SHIPPERNETIX to market. Then W&R Hours, Frate..etc new softwares came in the market ...

In the last quarter of 2012, YDDO met with DANELEC MARINE AS and started to marketing and servicing of Danelec Marine AS products in Turkish & European waters. (VDR-SVDR & ECDIS) .

YDDO has been growing rapidly between 2013-2017 with Danelec. In this period of time started to have a business with Jotron, TP Radio, Netwave, McMurdo, Flir, Strix Marine, Daniamant, ComNav, AMI Marine, Sailor, Icom, Scan Antenna, Neta ... etc.

Canakkale and Izmir offices were opened and started to servicing and sales in European Waters and providing consulting to Maritime Sector.

In the beginning of 2018, YDDO was started to GMDSS Radio Survey Service with all IACS & Non IACS Classes Authorization.
(You may see all Class Authorizations beginning of our catalog)

AnnShip was founded and started business at the beginning of 2019 in MALTA.

**PLS CALL US ALL OF YOUR
NEW BUILD PROJECTS QUOTATIONS
&
NAVIGATIONAL PRODUCTS
SOFTWARE REQUESTS
&
WHEN YOU NEED ANY
MARITIME CONSULTINGS...**



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Registration Number : C 89223 – VAT Number : MT 25721604

www.annshipltd.com



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