DIGITAL YACHT

SAIL BOAT MOTOR BOAT SUPERYACHT WORK BOAT SPORT FISHING COMMERCIAL FISHING

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Digital Yacht Applications Guide

Price List (£ ex VAT)

- **AIS Systems**
- **Navigation Sensors**
- **Wireless Navigation**
- **Signal K and iKommunicate**
- **Wireless Internet**
- **Marine PCs and Apps**
- **Entertainment**

All prices in GBP (£) ex VAT

September 2017

Digital Yacht Tel +44 117 954 7474
www.digitalyacht.co.uk

NEXT GENERATION NAVIGATION SOLUTIONS

AIS Systems

Wake up your chart plotter with Digital Yacht AIS Receivers & Class A/B Transponders for every application
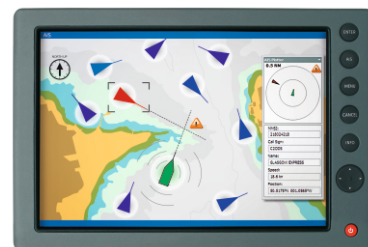
Digital Yacht have the most extensive range of AIS products from any manufacturer with AIS receivers and Class A/B transponders available together with a full line up of accessories such as alarms, antennas and splitters.

With AIS you'll bring your plotter and navigation systems to life with a dynamic overlay of AIS targets and a clear indication of their identity and heading. The system provides a step change in navigational situation awareness, security and a great basis for social boating to identify your friends and fellow boaters. Use our SmarterTrack PC navigation software for great real time navigation displays or the NavLink range of iOS apps.

All our products utilise the most sophisticated dual channel technology for unrivalled target acquisition capability and with HF AIS satellite tracking embedded software on the Class B products, they are future proofed for advanced ocean satellite tracking. Choose the ultimate AIT3000 for wireless, NMEA, NMEA 2000 and USB connectivity with a built in ZeroLoss splitter for the fastest, easiest and best way to upgrade your navigation with Digital Yacht AIS.

See also the Nomad - It is the World's first portable Class B transponder with a wireless interface. It appeals to charter skippers, professional mariners like delivery skippers and pilots as well as boat owners who don't want the hassle of installing a dedicated transponder and like the concept of easy iPad and tablet navigation.

Watch your navigation system wake up with Digital Yacht AIS products

AIT2000 Class B AIS Transponder

AIS100 Receiver Series

AIT3000 Class B AIS Transponder

Part Number	Description	£ EX VAT
ZDIGAIS100	AIS100 AIS RECEIVER (NMEA OUT)	150.00
ZDIGAIS100USB	AIS100 AIS USB RECEIVER	150.00
ZDIGAIS100P	AIS100 PRO AIS RECEIVER (USB AND NMEA OUTPUTS)	175.00
ZDIGiAIS	iAIS WIRELESS AIS RECEIVER (FOR iPHONE, iTOUCH and iPAD)	350.00
ZDIGAISNODE	AISnode NMEA 2000 AIS RECEIVER	250.00
ZDIGAISNET	AISNET NETWORK AIS BASE STATION RECEIVER	325.00
ZDIGAISNET2	AISNET+ NETWORK AIS BASE STATION RECEIVER WITH OPEN VPN	1000.00
ZDIGAIT1500	AIT1500 CLASS B TRANSPONDER WITH INT GPS ANT (NMEA 0183)	420.00
ZDIGAIT1500N2K	AIT1500 CLASS B TRANSPONDER WITH INT GPS ANT (NMEA 2000)	450.00
ZDIGAIT2000	AIT2000 CLASS B TRANSPONDER (SUPPLIED WITH GPS ANTENNA)	475.00
ZDIGAIT3000	AIT3000 CLASS B TRANSPONDER WITH SPLITTER AND WIFI	830.00
ZDIGAITBUN1	AIT2000 PLUS GV30 BUNDLE (COMBO VHF-GPS ANTENNA)	555.00
ZDIGNMD	NOMAD PORTABLE CLASS B AIS TRANSPONDER WITH USB & WIFI (INT GPS)	475.00
ZDIGQVA	NOMAD QMAX AIS-VHF ANTENNA (OPTION FOR NOMAD)	45.00
ZDIGSPL1500	SPL1500 VHF ANTENNA SPLITTER FOR VHF/AIS OPERATION FROM 1 ANT	195.00
ZDIGSPL2000	SPL2000 VHF ANTENNA SPLITTER FOR VHF/AIS OPERATION FROM 1 ANT (WITH FM)	215.00
ZDIGAISLG	AIS LIFE GUARD MOB/SART ALARM	150.00
ZDIGGV30	GV30 COMBO AIS-GPS ANTENNA	95.00

Nomad
Portable class B AIS Transponder

AISNet
AIS base station

AIT1500 and AIT1500N2K
Class B AIS Transponder

DIGITAL YACHT APPLICATIONS GUIDE September 2017

Navigation Sensors

Wireless Wind System with wired mast head unit and wireless output to iOS and Android App

The WindSense system features an ultra tough Wind Transducer with Igildur™ bearings for exceptional life and corrosion resistance. Data transmission is via a super-thin 20m digital cable providing fast update NMEA0183 ($MWV) data to the below deck wireless interface.

Wind data is then wirelessly streamed to any compatible App or Navigation software package enabling Apparent, True*, Close Haul or Running data to be displayed on an iOS, Android, Mac or Windows device. Up to 7 mobile devices can receive the same data, so crew and family members can also see exactly what the wind is doing.

The Wireless interface box has a configurable NMEA0183 input/output (4800/38400 baud) allowing GPS, Instrument or AIS data be be multiplexed (combined) with the WindSense data and streamed to the mobile devices/apps

Next generation navigation with precision positioning from the GPS150 DualNav GPS-GLONASS sensor

The GPS150 DualNav™ positioning sensor combines a super accurate 50 channel GPS with GLONASS, the Russian funded satellite positioning system that is now on line and providing an excellent back up or alternative to GPS. This "smart" sensor will automatically switch between the systems or the user can manually select the most appropriate for their activity. The GPS150 will also be able to utilise the European funded Galileo positioning system when it comes on line.
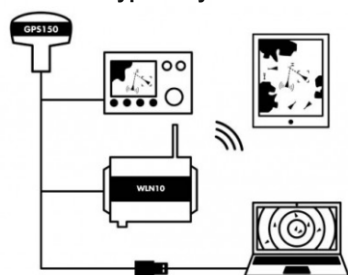
The GPS150 also allows the user to select a variety of different NMEA baud rates (4800, 38400 and 115200) to allow interfacing with legacy and current systems. It also supports a new TurboNav™ mode which will appeal to racing yachtsmen and performance users where GPS/GLONASS data is output at 10Hz (10 x faster update than normal) and with an interface speed of 115200 baud which is 24 x the speed of normal NMEA data. The GPS150 can also connect to the WLN10 wireless interface to allow data to be sent to mobile devices such as iPhones, iPads and Tablets. There is also a USB interface for PC and MAC users.

"Stream your wind data and other navigation data on your tablet and smartphone with the Windsense"

**HSC100/200
Fluxgate Compass**

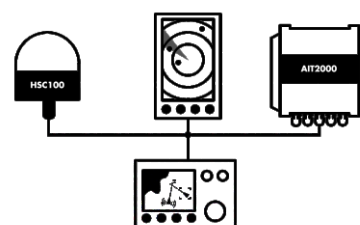| Part Number	Description	£ EX VAT
ZDIGHSC100	HSC100 FLUXGATE COMPASS SENSOR WITH NMEA OUTPUT	240.00
ZDIGHSC100T	HSC100T FLUXGATE COMPASS SENSOR WITH NMEA OUTPUT (ROT version)	240.00
ZDIGHSC200	HSC200 FLUXGATE COMPASS SENSOR WITH NMEA 2000 OUTPUT	300.00
ZDIGWND100	WND100 MAST HEAD UNIT AND 20M CABLE	250.00
ZDIGWS	WINDSENSE WIRELESS WIND SYSTEM WITH MAST HEAD UNIT	375.00
ZDIGGPS150	GPS150 DUALNAV GPS/GLONASS SENSOR	125.00
ZDIGGPS150USB	GPS150 DUALNAV GPS/GLONASS SENSOR (USB VERSION)	165.00
ZDIGN2NCON	N2NET CONNECT NMEA TO NMEA 2000 ADAPTOR FOR SENSORS	100.00

**GPS150 and GPS 150USB
Typical System**

**GPS150USB
For PC/MAC Navigation**

**HSC100
Typical System**

Wireless Navigation

Integrate smart devices like iPads and tablets into your boat's navigation system with Digital Yacht

We're all familiar with dedicated electronic chart plotters for navigation afloat. Since the introduction of GPS about 25 years ago, dedicated marine plotters have become the back bone of modern electronic navigation systems. But whilst smaller 4" and 5" plotters have tumbled in price, larger 8"-15" devices remain stubbornly expensive. The cost of the electronic cartography can also be high and you'll often be hooked into a closed or proprietary "eco" system for accessories, upgrades or extra features.

Consumer devices like the iPad do offer an alternative and with iPad sales now over 300 million units to date, they bring an economy of scale but also, importantly, a network of software developers making niche apps – many of which can be useful for marine utilisation.

The core iPad hardware revolves around a high resolution 7.9", 9.7" or 12.9" touch screen display. With screen resolutions now at 2732 x 2048 pixels for the latest iPad Pro, it outpaces dedicated products by a mile yet costs a lot less. They also feature wireless interfaces to allow integration with other on board devices and systems and with internet connectivity, they can bring a host of "cloud" data to your boat – from the latest weather reports to charts updates or crowd sourced data.

Whilst an iPad isn't waterproof, there's a variety of protective cases now available and of course 12v chargers, adaptors and mounting options.

At Digital Yacht, we firmly believe there's a place for consumer devices integrated into a boat's system and we have a wide range of wireless hardware and applications that make this a reality. We're determined to offer better value in boating and electronic navigation, safety, communication and entertainment afloat and the iPad revolution is a big step forward here. Our wireless servers are also compatible with Android and PC systems so you can utilise them with the latest slates from Microsoft too. Welcome to next generation navigation from Digital Yacht.

WLN10 Series
NMEA to WiFi Servers

$SDDPT,18.43,0.00*69
$SDDBT,60.46,f,18.43,M,10.07,F*0A
$GPGLL,5330.25,N,00215.31,W,134531,A*2D

WLN20 AquaWear
NMEA to WiFi Servers

Part Number	Description	£ EX VAT
ZDIGWLN10	WLN10 NMEA TO WiFi ADAPTOR	180.00
ZDIGWLN10HS	WLN10HS NMEA TO WiFi ADAPTOR (38400 baud)	180.00
ZDIGWLN20	WLN20 AQUAWEAR SERVER WITH WRIST CASE	220.00
ZDIGAQWC	AQUAWEAR ADDITIONAL WRIST CASE	20.00
ZDIGWLN2NET	NAVLINK NMEA 2000 TO WiFi SERVER	350.00
ZDIGWLN2NETPL	NAVLINK PLUS NMEA 2000 TO WiFi SERVER WITH USB INTERFACE	400.00
ZIDIGIK	iKOMMUNICATE NMEA 0183/2000 TO SIGNAL K GATEWAY	220.00
ZDIGUSBNMEA	NMEA-USB ADAPTOR	35.00
ZDIGMUX100	MUX100 DUAL CHANNEL NMEA MULTIPLEXER	100.00
ZDIGNTN10	NTN10 NMEA TO ETHERNET ADAPTOR	195.00

"PilotLink portable NMEA to wireless server for Class A AIS systems - plug 'n play navigation for pilots and commercial users"

NavLink
NMEA 2000 to WiFi Server

SonarServer
Navionics Sonar Charts Live

Before... ...You Sail... ...After

NMEA0183 - USB Adaptor

Wireless Internet Afloat

High power, long range WiFi for your boat offers speedy and affordable internet access afloat

More and more boaters want access to the internet afloat. Marinas and ports as well as a large number of cafes, hotels, restaurants and service providers offer wi-fi connectivity but you may just miss that vital connection if you're moored or anchored away from the dock – especially if you're below decks about to enjoy a movie or catch up on email.

The WI60 is a all-in-one system which features a 100mW modem built in to a hi-gain (8dBm) antenna with a 5m (16ft) USB cable. The antenna measures 60cm (2ft) and should boost your Wi-Fi range to over 0.5 mile in perfect conditions. Designed for quick and easy installation with four suction cups, the WL60 is an ideal temporary mount Wi-Fi solution for boats.

The WL70 can offer connections up to about /1km depending upon conditions. It has a very high performance 1.25m 15dBm antenna to suck in the weakest of signals and the internal low noise, high sensitivity modem connects to the PC via simple plug 'n play USB interface. It fits a standard 1" mount (not supplied) so can be permanently mounted or even taken out into the cockpit when moored and temporarily installed.

The more sophisticated WL510 is a two part hi power wifi access system comprising high gain external antenna and below deck modem and amplifier. With the range offered by the WL510 (up to 7NM depending upon conditions), you're not limited to local access points either and many users take advantage of free wifi from cafes, bars and other sites even when a few miles offshore.

Most importantly, it utilises a network connection so can connect direct to the iNavConnect and iNavHub routers so the connection can be shared by PCs, tablets, iPads and other devices like smart Tvs
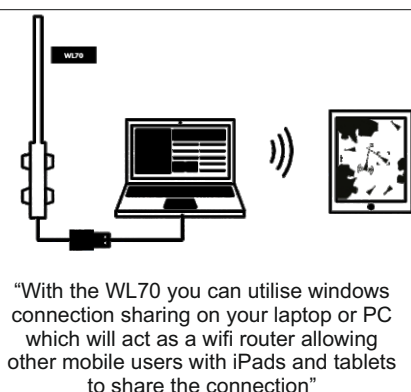

"The combination of the WL510 plus iNavHub allows the wifi connection to be shared by multiple users on PCs, iPads and tablets by creating a local boat wifi network. NMEA data can also be connected so the same network can be used for navigation and internet"
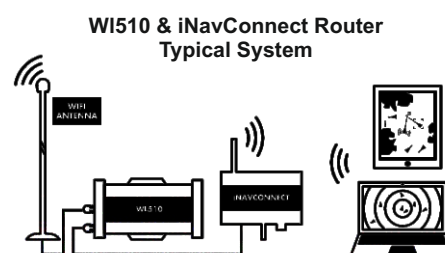

Part Number	Description	£ EX VAT
WiFi Internet Access Products		
ZDIGWL60	WL60 MK3 WiFi ACCESS SYSTEM (USB)	100.00
ZDIGWL70	WL70 WiFi ACCESS SYSTEM (USB)	150.00
ZDIGWL70R	WL70 PLUS WIFI ROUTER BUNDLE (WL70 plus iKConnect Router)	300.00
ZDIGWL510	WL510 HI POWER WiFi ACCESS SYSTEM (NETWORK CONNECTION) WITH 10M CABLE	495.00
ZDIGWL510-20	WL510 HI POWER WiFi ACCESS SYSTEM (NETWORK CONNECTION) WITH 20M CABLE	595.00
ZDIGWL500UP	WL500-510 UPGRADE KIT	295.00
WiFi Routers & Hubs		
ZDIGIKC	iK CONNECT ROUTER	150.00
ZDIGINC	iNAV Connect WIFI ROUTER	150.00
ZDIGINH	iNAV Hub NMEA SERVER AND WIFI ROUTER	300.00

"WI60mk3 boost your Wi-Fi range to over 0.5 mile. With the four suction cups and the USB connexion, this antenna is easy to install and use"

www.digitalyacht.co.uk

"With the WL70 you can utilise windows connection sharing on your laptop or PC which will act as a wifi router allowing other mobile users with iPads and tablets to share the connection"

Optional iKConnect WiFi router for WL70

WI510 & iNavConnect Router Typical System
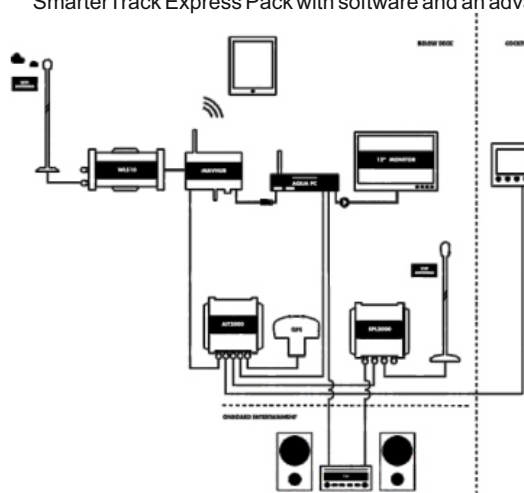
Marine PCs & Applications

Utilise a PC for navigation, communication and entertainment - smart solutions from Digital Yacht

Thinking about adding a PC to your boat? Digital Yacht's new Aqua Compact Pro PC really does fit in the palm of your hand! Space is always at a premium on board and despite its slimline 11.5 x 11 x 5 cm dimensions, the Aqua PC packs in a powerful 7th generation Intel Core i3 processor with exceptional graphics performance for the latest 3D charting and HD navigation programs. It's the perfect partner for applications like Maxsea TimeZero even with radar and 3D overlays.

So why a PC on board? The number one, compelling reason to add a PC to your boat's navigation and communication system is amazing value. There's no doubt that a dedicated chart plotter is ideal for use at the helm where it needs to be waterproof and compact. But below decks, a PC can offer big screen performance at a very attractive price compared to a dedicated large screen multi-function display. Of course, a PC and chart plotting software can also be your only electronic navigation device, just integrated to the GPS and instruments via a simple NMEA interface.

A PC also offers more powerful functionality than a dedicated MFD with the ability to install software for lots of applications from navigation to entertainment, email communications, weather and internet connectivity. PCs are also up-dateable as new applications become available.

And why not a laptop? They are simply not designed for the hostile marine environment and consume large amounts of power. It's a much neater solution to have a dedicated PC and dedicated display both in terms of functionality and reliability. If you're chartering a boat, a laptop may been the answer and our SmarterTrack Express Pack with software and an advanced DualNav plug 'n play positioning sensor makes portable navigation easy.

Typical PC System Integration

"The Aqua Compact Pro utilises the latest 7th generation Intel
i3 processor for super fast charting redraws of 3D

Part Number	Description	£ EX VAT
ZDIGAQCP	AQUA COMPACT PRO PC (INTEL i3/8GB/120GB)	825.00
ZDIGAQCPPL	AQUA COMPACT PRO + PC (INTEL i7/8GB/240GB)	1095.00
ZDIGSTPCN	SMARTERTRACK 2016 PC NAVIGATOR SOFTWARE	150.00
ZDIGSTPCE	SMARTERTRACK 2016 EXPRESS PACK NAV S/W WITH DUALNAV USB SENSOR	275.00

"SmarterTrack navigation software utilises Navionic's charting so you can share charts on PC and chart plotter"

USB-NMEA Cable	NavLink	SmarterTrack Express Pack	MUX100
For easy PC connectivity	Navigation App for MAC & iOS	DualNav USB GPS & Nav Application	NMEA Multiplexer

Safety - SARTs and AIS LifeGuard

AIS SART and AIS LifeGuard - the AIS man over board alarm for use with popular AIS PLBs

Digital Yacht has launched a potentially life-saving product called AIS LifeGuard. Each crew member needs to be carrying a personal AIS device – like the ones made by companies such as Ocean Signal, Easy, Kannad and McMurdo. Just connect the AIS LifeGuard to an on board AIS transponder or AIS receiver and you have a fully operational AIS SART man overboard system. The AIS Life Guard detects both message 1 and message 14 (these are reserved for AIS SART messaging). As soon as an AIS SART transmission is detected the AIS Life Guard will sound an internal 95db alarm and also display a red warning light. So within seconds the helmsman will be aware if a member of the crew or passenger has fallen overboard.
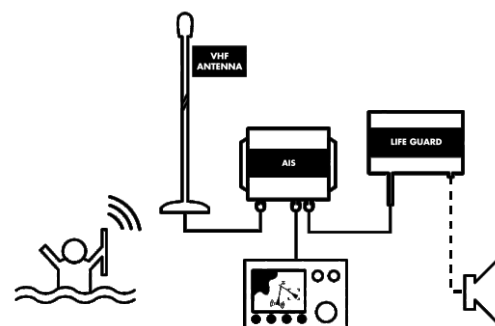
The AIS Life Guard is compatible with all Digital Yacht receivers and transponders and the new generation of AIS SARTS that have recently been approved for global use by the IMO.

The S1000 is an approved IMO AIS SART, suitable for vessel and liferaft deployment. It forms a vital part of mandated on board safety equipment for commercial users and leisure offshore boaters.

"AIS LifeGuard connects to your on board AIS system via a simple NMEA connection and alerts you when an AIS MOB SART signal is detected"

Part Number	Description	£ EX VAT
On Board Entertainment and TV Antenna Solutions		
ZDIGDTV100	DTV100 HD TV MARINE ANTENNA SYSTEM	135.00
ZDIGDTVDA	DTV100 OPTIONAL DUAL OUT TV AMPLIFIER	65.00
Security		
ZDIGS1000	DIGITAL DEP SEA S1000 SMART AIS SART	400.00

On Board Entertainment with the DTV100

TV not included

The DTV100 HD TV antenna from Digital Yacht allows you to access the latest generation of digital "over the air" TV services on board. With a super sensitive design and hi gain amplifier, it sucks in even the weakest of signals. It's omni-directional too so there's no complicated aligning plus it will provide a feed for a FM stereo radio.

TV on board is a new "must have" especially with a big choice of free to air channels for all elements of entertainment, news, weather and sport. This low cost antenna opens a new market for reliable marina and anchorage reception without the expense of stabilised satellite based systems.

- Very high performance omni directional marine TV antenna with global reception capability of latest DVB/HDTV signals
- TV and FM radio outlet on below deck mounted amplifier with -7dB to +29dB gain
- Pole or standard 1" adaptor mounting ability
- Just 280mm diameter - supplied with 10m/33ft coax
- Optional dual TV outlet amplifier

NMEA2000 Starter Kit
SRP £60

NMEA2000 has now become the defacto standard throughout the marine electronics industry for interconnection of devices. It uses a simple backbone (or trunk) structure with requires terminators at each end of the cabling and then each device can be spurred off using a drop cable. The bus also requires power. Waterproof connectors are used throughout for maximun reliability and it makes for an easy plug 'n play installation.

Digital Yacht have introduced a new NMEA 2000 starter kit which allows for up to 3 devices to interconnect - say AIS, plotter and autopilot and comes complete with terminators and a power cable. It uses the high quality, nickel plated metal style connectors rather than the cheaper plastic type which can prove unreliable.

The backbone is formed from a unique 6 way extension block with ports at each end that accomodate the terminators. This allows for a really neat and compact installation - ideal for behind the helm.

It's suitable for DIY installers as well as boat builders who want an easy and value priced solution for integrating and installing modern boat electronics.

The connection system will work with all leading brands and can be expanded using standard components as required. Digital Yacht have also published a quick guide to NMEA 2000 installations which is available to download from their website

iK iKommunicate
NMEA to Signal K Gateway & Server

iKommunicate from Digital Yacht is a gateway designed to get NMEA 0183 and NMEA 2000 based marine electronic systems connected to the next generation of interfacing and the Internet of Things. NMEA interfacing has been utilised for many years and is now the defacto interconnect standard for all major brands of electronics. It's super reliable but old fashioned in todays world plus it's complex for application developers to work with - like a dial up modem in a broadband age. There are also legal issues with regard to certification and documentation which stalls innovative product development.

Signal K is an HTML5 "web ready" JSON based data format, that makes web and mobile app development really simple - even for amateurs. Apps can be written in minutes and data viewed in a browser. For instance, NMEA 2000 engine data such as fuel flow, temperature and pressure could be logged and then analysed for any trends indicating an engine service requirement. Internet integration is also easy with all sorts of social media possibilities using Twitter and Facebook for logging and tracking. iKommunicate can also act as a simple on board webserver so PDF manuals can be stored and viewed as required. Files can be stored on the integrated SD card reader.

SRP £220

iKommunicate features 3 NMEA 0183 interfaces and 1 NMEA 2000 interface so there's plenty of connectivity. It has a built in webserver and ethernet port for easy connection to a wifi router so data can be shared with devices like tablets, Kindles, PCs and smart phones. NMEA data is also made available on the ethernet port. There are already many apps that are compatible including NMEA Remote, iNavX, Active Captain, and Navionics (for sonar charts). Find out more www.ikommunicate.com