Your boat with BOATraNET

Next Generation On Board Electronics
Navigation Communication Safety Monitoring Entertainment

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BOATraNET –
Next Generation Navigation & On Board System Integration

The world’s first, wireless, on board navigation server – bring nav data to all your mobile devices on board
Introduction – At A Glance

- The World’s first on-board wireless navigation server
- Takes NMEA data and makes it “graphically” available to on board mobile devices such as iPad, iPhone, Android, MAC and PC users through its wireless access point
- Uses standard web browser to view data – no apps or software downloads
- Built in charting (with embedded Navionics’s cartography)
- Audio, photo and document server capability
- Acts as on board router for high power Wi-Fi devices or other ethernet connected communication devices (eg satcom or 3G)
System Basics

1: Connect to your boat’s system:
- Dual NMEA 0183 inputs (4800 and 38400 baud).
- Optional NMEA2000
- Two additional inputs via Digital Yacht USB-NMEA adaptors

2: BoatraNet creates dynamic web pages of navigation and boat data

3: Wireless connection to multiple mobile devices – Apple, Android, MAC or PC – anything with a HTML5 compliant browser

4: BOATraNET will connect to our WL500 and WL510 hi power Wi-Fi systems for external web and internet access. This can then be shared with other connected devices.

Your boat with BOATraNET
Only a browser required...

It’s multi platform compatible

• Just requires a browser to display data on the mobile device – no apps or dedicated programs needed

Any HTML 5 compliant browser...

Your boat with BOATraNET
Easy steps....

Find the custom DY BoatraNet hotspot

Logon with a password

Visit http://boatra.net
Standard Displays
Chart Function

Home Page http://boatra.net

Select Charting

Your boat with BOATraNET
Navionic’s Embedded Charting

- Embedded Navionic’s Silver charting (available for four regions)
  - Europe, N America, Canada and Rest of World
  - Large area of coverage with charts at 1/2m scale
- Zoom In/Out Function
- Overlay of waypoint position and current boat position
- Three levels of detail
- Not designed as a chart plotter replacement as limited functionality
Standard Displays
Navigation Function

Home Page
http://boatra.net

Select Navigation

Your boat with BOATraNET
Wind App

Standard Displays Instrument Function

Select Instruments
View NMEA data graphically on screen. Wind, depth, position, compass heading, speed etc.

Home Page
http://boatra.net

Your boat with BOATraNET
**Standard Displays Music Function**

Select Music

Play music on local device or through BOATraNET*. Import your music through a USB drive.

*Connect line out to on board amplifier

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<table>
<thead>
<tr>
<th>Music</th>
<th>Play Music on Your Device</th>
<th>Play Music on Boatranet</th>
<th>Import Music</th>
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</tbody>
</table>

Home Page
http://boatra.net

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**Your boat with BOATraNET**
Standard Displays Documents Function

Home Page
http://boatra.net

Select Documents
View your on-board manuals and docs with import facility through USB device
BoatraNet connects to WLN510 hi power external WiFi through simple ethernet RJ45 patch cable – local devices can then access the internet through the high power WiFi system whilst connected to the internal BoatraNet WiFi network.

Optional Hi Power WiFi For Internet access
Standard Displays
WiFi Function

Home Page
http://boatra.net

Select WiFi
Connect the BOATraNET to an optional WL500/510 high power Wi-Fi system for external web and internet access

Your boat with BOATraNET
Standard Displays
Photo Library Function

Select Photos
Import photos through a USB device for viewing

Home Page
http://boatra.net

Your boat with BOATraNET
AIS Function

Select AIS
For AIS target list. Search by distance, target type or name. Click on a target for static data and map view

Home Page
http://boatra.net

Your boat with BOATraNET
NMEA Data Function

Home Page
http://boatra.net

Select NMEA
View raw NMEA data coming into BoatraNet – with option to save the file. Ideal for fault finding
Your boat with BOATraNET

Log Book

Select LOGBOOK
Record position, course and speed at user defined intervals. Export to GOOGLE earth

Home Page
http://boatra.net
Your boat with BOATraNET

Video Storage & Playback

Select VIDEO View mp4 videos across the WiFi network.

Digital-Yacht-From-London-Boat-Show-Exclusive-look-at-BOATraNET
Digital-Yacht-Technical-Support-Video-How-to-Connect-Boatranet-t
Digital-Yacht-Technical-Support-Video-How-to-Import-Media-to-Boa
Digital-Yacht-WLS10-WiFi-Antenna mp4
Getting-Started-with-Boatranet-No-10-Tech-Video
Your boat with BOATraNET

Standard Displays
Settings Function

Home Page
http://boatra.net

Select Settings
Choose language, units of measure, time format and other user settings.
Power up and down functions
Other Functions

• Multiplexes all NMEA channels to dedicated wireless IP address and port – ideal for use with mobile apps such as iNAVx and MAC ENC
• Audio line out (to optional amplifier/boat stereo system) for music playback with control from mobile device
• Acts as on board router for WL500 and WL510 hi-power Wi-Fi systems (or any ethernet connected internet connection – eg 3G, Fleet Broadband etc.)
BoatraNet Solutions
BoatraNet With External WiFi Internet Access, Aqua PC & AIS

Digital Yacht BoatraNet
On Board Server

On Board WiFi
Enabled phones
and tablets

Existing on board
navigation equipment

CHART
PLOTTER

Digital Yacht
BoatraNet

Audio/Video
From BoatraNet
Above

NMEA-USB

Optional 2 x NMEA
additional inputs via
USB-NMEA adapter

STEREO

Digital Yacht
AIS 1000

NMEA AIS Data

USB AIS and
GPS Data Feed
for navigation
software

35400 NMEA AIS Data

Digital Yacht
Aqua PC

Marine PC System

Digital Yacht
SmarterTrack PC

Navigation Software
(supplied with Navionic’s card reader)

Digital Yacht
Aqua PC Pro

VGA/CVI Video Link

T SERIES
CHART TABLE
DISPLAY

Digital Yacht
T713 Touch Screen
Chart Table Monitor

Digital Yacht
Wireless keyboard
and mouse
Applications

- Boat builders – Provide customers with on-board manuals, instantly retrievable on mobile devices
- Retrofit – Connect older systems via NMEA to the latest range of mobile devices such as iPad/Android/PC etc.
- Making Boating More Fun – Simple solution for photos, music, navigation and on board internet connectivity through high power Wi-Fi
# Tech Specs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Under the bonnet</strong></td>
<td>Fanless solid state design for exceptional reliability. Intel 1.6GHz processor with 1GB RAM and 8GB internal flash storage running embedded Linux server</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>8-30V DC (approx. 20W)</td>
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<tr>
<td><strong>Size</strong></td>
<td>300 x 225 x 60mm</td>
</tr>
<tr>
<td><strong>Charting</strong></td>
<td>Embedded Navionic’s SILVER charting available in 4 regions:</td>
</tr>
<tr>
<td></td>
<td>• EUROPE</td>
</tr>
<tr>
<td></td>
<td>• N AMERICA</td>
</tr>
<tr>
<td></td>
<td>• CANADA</td>
</tr>
<tr>
<td></td>
<td>• REST OF WORLD</td>
</tr>
<tr>
<td><strong>NMEA Inputs</strong></td>
<td>1 x NMEA 0183 4800 BAUD</td>
</tr>
<tr>
<td></td>
<td>1 X NMEA 0183 38400 BAUD</td>
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<tr>
<td></td>
<td>2 X Additional NMEA inputs through optional adaptor</td>
</tr>
<tr>
<td><strong>File Import</strong></td>
<td>Via USB stick</td>
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BOATraNET Platform –
Expandable for the future

• BOATraNET will evolve with bi-annual updates
• Easy user updates
• Release 3 due Nov 2011 will incorporate:
  – Enhanced chart plotter functions with A-B ruler facility, course up/north up presentations
  – [www.boatranet.com](http://www.boatranet.com) - online portal for external data access such as weather, navtex and port information
  – NMEA 2000 certified version (available late 2011)