

TIMEZERO FAQ's

TIMEZERO Product Range

- 1 - What is "TIMEZERO"?
- 2 - What is the TIMEZERO Product Range?

License and Activation

- 1 - Does TIMEZERO require a dongle (hardware key)?
- 2 - Can I install TIMEZERO on multiple computers?
- 3 - If I purchase a new computer, will I need to reactivate TIMEZERO?

Hardware

- 1 - What are the hardware requirements to run TIMEZERO on my PC?
- 2 - Can TIMEZERO run on a Mac?
- 3 - Can I run TIMEZERO on a Tablet PC?
- 4 - What is the difference between "Integrated" and "Dedicated" video cards?

Charts

- 1 - What are the chart options for TIMEZERO?
- 2 - Does TIMEZERO come with Charts?
- 3 - Can I use C-MAP MAX Pro or Passport World Folio charts with TIMEZERO?

TIMEZERO compatibility with Radars, Sounders, and MFDs

- 1 - Is TIMEZERO compatible with legacy Nobeltec InSight Radar Systems?
- 2 - Is TIMEZERO compatible with Furuno NavNet MFD?
- 3 - Which Furuno Radars and Sounders is TIMEZERO compatible with?
- 4 - Is TIMEZERO compatible NavNet 1/Vx2?
- 5 - Can I use the charts purchased for NavNet3D/TZtouch/TZtouch2 in TIMEZERO?
- 6 - Can I connect any Furuno Digital Radar Sensor (DRS) directly to TIMEZERO?
- 7 - Can TIMEZERO be connected directly to a Furuno Ethernet Sounder?
- 8 - Which type of Sounder can I use to create Bottom Hardness map in TIMEZERO?
- 9 - Can I connect the Wireless DRS4W Dome Radar ("1st Watch Radar") to TZ Navigator/Professional?
- 10 - Can TIMEZERO display the Weather Information from a Sirius or XM receiver?

TIMEZERO Product Range

- 1 - What is "TIMEZERO"?

TIMEZERO is an innovative product range of software that offers exciting functions and a new user interface designed to be extremely intuitive and easy to use. The chart engine redraws charts seamlessly,

allowing users to easily zoom, pan, change chart display modes, and perform other chart handling functions in 2D or 3D without limited range presets.

2 - What is the TIMEZERO Product Range?

The TIMEZERO product range consists of one iPad App: TZ iBoat, and three PC products: TZ Navigator, TZ Professional and TZ Coastal Monitoring.

a) TZ iBoat

The TZ iBoat for iPad was designed to be very easy to use and focuses on the main features used during **real-time navigation**. The TZ iBoat can be downloaded for free on the Apple App Store. This allows you to try it and test its features using a demo chart for the Miami Area before buying anything. If you like the App, Raster Charts (selected areas only) and Vector Charts (worldwide) can be purchased directly from the App (In-App Purchase) and will allow you to use the App for real time navigation. Please note that the TIMEZERO iPad App does not offer all the advanced planning features that can be found in TZ Navigator or TZ Professional (on PC).

b) TZ Navigator

TZ Navigator is the perfect fit for **recreational** sailing and motor boat users. The User Interface is very easy to use and fully adapted to be used on touch screens (such as Windows 10 Tablet PC).

c) TZ Professional

TZ Professional is the most dynamic, cutting-edge PC-based navigation software available on the market and the one sole product that suits all the needs of **professionals at sea**. TZ Professional is designed for the following customers:

- Yachters who want advanced hardware integration (multi-monitors, camera integration, fuel management, etc.) and native S57 compatibility
- Commercial Fishermen who want access to oceanographic data (SST, Altimetry, Chlorophyll), advanced Marks & Layers management and the PBG Module (Bathy Recorder, Fishing Workspace, Custom Contour lines...)
- Workboat users who want to optimize AIS & Radar integration and access to the VDR module.

d) TZ Coastal Monitoring

TZ Coastal Monitoring is our turnkey solution for **Maritime Surveillance**.

e) Optional Modules

Additional software Modules that can be purchased for TZ iBoat (iPad):

- AIS Module:

This module allows the TZ App on iPad to connect to real time AIS receiver. The AIS receiver will need to output the AIS data using NMEA0183 over a Wireless Network.

- First Watch DRS4W Radar

This module allows the TZ App on iPad to connect and overlay the Furuno DRS4W Radar directly on your charts.

Additional software Modules that can be purchased for TZ Navigator & TZ Professional:

- Routing Module:

This module allows to make calculations based on the boat's performance characteristics (which are

stored in the polar files) and GRIB weather data. The software then creates a recommendation for the best possible route. This module also unlocks Laylines that help in real time navigation.

- Furuno Radar Module (included with TZ Professional)

This module allows TIMEZERO to be connected directly to a compatible Furuno Ethernet Radar (DRS Series Radar and FAR2xx7, FAR15xx, FAR3xx0 Series Radar) and allows direct control and radar overlay in TIMEZERO. This module also allows TIMEZERO to be connected to a NavNet Network (NavNet3D, TZtouch and TZtouch2) to link charts and exchange Route and Waypoint with the MFD(s).

- Furuno Sounder Module

This module allows TIMEZERO to be connected to a compatible Furuno Ethernet Sounder (DFF1, BBDS1, DFF3, DFF1-UHD, Internal TZT2 Sounder or FCV1150) to display and control the Sounder directly or with a NavNet3D / TZtouch / TZtouch2 MFD.

This module cannot be used when a NavNet 1 or NavNet Vx2 MFD is present on the network

Additional software Modules that can be purchased exclusively for TZ Professional:

- PBG Module

This module allows you to create clear and realistic charts of the seafloor (bathy recorder). This module also unlocks the Fishing WorkSpace (customizable color coding and contour lines which will allow for instantaneous precision research), the 3D Cube WorkSpace (automatic and easy to use 3D view), and the profile window.

- VDR ("Voyage Data Recorder") Module

This module allows to save all the information received from the connected sensors (GPS, radar, AIS, etc.). It is particularly useful in the case of an incident as it allows one to look back at all the available information relative to the surrounding environment of the boat at that given date and time

- WASSP Multi-Beam Module

This module allows TIMEZERO to be connected to a WASSP multi-beam sounder to record up to 112 depth points simultaneously using PBG. Backscatter (Hardness) is also recorded.

- Trawl Positioning Module

This module makes it possible to connect MARPORT trawl positioning sensors and see exactly where your trawl doors are. Maneuver your gear with more security in a tight space while keeping the doors a safe distance from obstructions or canyon walls when chasing marks over difficult terrain

- Bottom Hardness Module

The Bottom Hardness module allows you to record bottom hardness from third party sounders using proprietary NMEA0183 sentences. The following sounders are compatible: Simrad ES70 and ES80 (\$PSIMDHB sentence) / Koden CVS-FX series (\$PKODS sentence) / Hondex HDX-121, HE-1500Di, and HE-7300Di (\$PHDX sentence) / JRC JFC-130 series (\$PJRCs sentence) / Seascan (\$PSAP sentence).

When upgrading to TZ Navigator or TZ Professional from an older software, the modules (already purchased in the old license) will be **transferred for free!**

License and Activation

1 - Does TIMEZERO require a dongle (hardware key)?

TIMEZERO **does NOT require a hardware dongle**. Instead, a Serial Number is provided. The software must be activated when launched for the first time. The activation process is fully automated if an Internet connection is available. If an Internet connection is not

available, the software can be activated using an Activation Code that can be retrieved from any Smartphone (Internet Connection), by email or by phone.

2 - Can I install TIMEZERO on multiple computers?

TZ Navigator can be installed on two computers, at home and on the boat for example. TZ Professional can be installed on one computer only. Additional Workstations for the same vessel can be purchased if needed.

3 - If I purchase a new computer, will I need to reactivate TIMEZERO?

Yes, you will need to reactivate the software if you change your computer. Before installing TIMEZERO on your new computer, perform a "full un-installation" on your old computer (from the Windows "Add/Remove" Control Panel). This will redeem your activation onto our server and you will be able to reactivate TIMEZERO on your new computer.

Hardware

1 - What are the hardware requirements to run TIMEZERO on my PC?

The hardware requirements for **TZ Navigator** are:

- Microsoft® Windows® 7 SP1, Windows® 8.1 or Windows® 10 (32-bit or 64-bit operating system)
- CPU 1.5 GHz
- 4GB of RAM
- Video Board:
 - Minimum - Intel HD Graphic Chipset
 - Recommended - Dedicated Video Board with 1 GB VRAM or Intel HD 4th generation or above
- Screen Resolution: 1024 X 600 or higher (1280 x 800 or above recommended)
- Hard Disk: 30 GB of free space
- USB or Serial Port for connecting instruments via NMEA0183, Actisense USB NGT-1 for connecting instruments via NMEA2000 or 100 Base-T Network Adapter for Furuno Ethernet Sensors

The hardware requirements for **TZ Professional** are:

- Microsoft® Windows® 7 SP1, Windows® 8.1 or Windows® 10 (64-bit operating system)
- CPU 2 GHz Intel® Core™ i5 4th generation or equivalent
- 4GB of RAM (8GB recommended)
- Video Board:
 - Minimum - Intel HD4400 Graphic Chipset (i5 4th generation with HD4400 or above)
 - Recommended (for PBG and Multi monitor) - Dedicated Video Board with 1GB VRAM
- Screen Resolution: 1024 X 768 or higher (1280 x 800 or above highly recommended)
- Hard Disk: 40 GB of free space
- USB or Serial Port for connecting instruments via NMEA0183, Actisense USB NGT-1 for connecting instruments via NMEA2000 or 100 Base-T Network Adapter for Furuno Ethernet Sensors

2 - Can TIMEZERO run on a Mac?

TIMEZERO only runs on Windows operating system. Note that it is possible to install Windows on a Mac, but only "Boot Camp" is supported. Other virtualization software such as VMware, Parallel or Fusion are NOT supported.

3 - Can I run TIMEZERO on a Tablet PC?

Most of the latest Windows 10 Tablet PC with 4GB of RAM will be able to run TZ Navigator. TZ Professional can only run on Windows 10 Tablet PC that have an Intel i5/i7 4xxx series CPU or above (such as a Surface PRO).

4 - What is the difference between "Integrated" and "Dedicated" video cards?

Integrated video cards such as the Intel Graphic Chipsets are built into the system motherboard and use the system's processor (CPU) and memory to create graphics. These video chipsets are fine for applications such as word processing, email and for the Internet, but provide inferior performance for graphic-intensive applications such as TZ Professional. While newer integrated video cards can process 3D, they share the CPU resources and memory with other programs. If the CPU and memory are overloaded or busy processing other information, the result is usually slow graphic performance.

If the computer has an integrated video chipset, TZ Professional need at least the Intel "HD" integrated video chipset of generation 4 with Intel i5/i7 4xxx series CPU.

Discrete video cards such as those manufactured by AMD (ATI) or NVIDIA enhance the video performance of the computer considerably compared to integrated video cards. These video boards are separate from the motherboard and consist of a specialized graphics processing unit commonly called a GPU and dedicated video memory called VRAM. Graphics memory is used by the GPU to accelerate the graphics on the computer monitor, thus enabling TIMEZERO to run optimally. A discrete video card is recommended to run TZ Professional with PBG & Multiple Monitors.

If you want to purchase a computer to run TIMEZERO at its best, purchase a "gaming" computer.

Charts

1 - What are the chart options for TIMEZERO?

TIMEZERO uses Mapmedia (.mm3d) charts that come in various formats (Vector or Raster) from various sources (NOAA, Jeppesen, Navionics, etc...) offering the most extensive chart portfolio on the market. Mapmedia Raster Charts are based on official hydrographic office and select private sourced paper charts. Mapmedia Vector Charts are based on official S-57, C-MAP by Jeppesen or Datacore by Navionics chart data. Navionics and Jeppesen (C-MAP) are the world's leading specialists in nautical vector charts.

In addition to Mapmedia .mm3d charts, TZ Professional is compatible with S57 and S63 charts (*)
(*) The S63 modules is required to import encrypted S63 charts (this module is not required for unencrypted S57 charts)

2 - Does TIMEZERO come with Charts?

When purchased in North America (in Dollars), TIMEZERO comes with Raster, Vector and 3D charts for US coastal waters. Additional free high resolution satellite photos for the USA are available online after registering TIMEZERO.

When purchased outside North America (in Euros), TIMEZERO comes with one Mapmedia charts that the user can select.

3 - Can I use C-MAP MAX Pro or Passport World Folio charts with TIMEZERO?

No, **TIMEZERO is not compatible with C-MAP MAX Pro or Passport World Folio charts.**

TIMEZERO compatibility with Radars, Sounders, and MFDs

1 - Is TIMEZERO compatible with legacy Nobeltec InSight Radar Systems?

TIMEZERO is compatible with Ethernet InSight radar systems that use the MDS-5 or MDS-6 box and the direct Ethernet Radar MDS1R/8R. TIMEZERO is not compatible with the older InSight Radar Systems that use a serial connection nor the IR2-BB.

2 - Is TIMEZERO compatible with Furuno NavNet MFD?

TZ Navigator can be connected to a Furuno NavNet 3D / TZtouch /TZtouch2 MFD network with the optional Furuno Radar module. TZ Professional includes native compatibility (no extra module required for the MFD/Radar integration). When TIMEZERO is connected to the Furuno MFD network, the following capabilities are enabled:

- Receive all navigation information such as Position, COG/SOG, Heading, Wind, Depth, AIS (*) from the MFD.
- Radar WorkSpace and Radar Overlay (with full control of the DRS Radar)
- Acquire and display ARPA targets
- Sounder compatibility with optional Sounder module
- Chart License sharing (link one MFD SystemID with one TIMEZERO Serial Number)
- Real-Time synchronization of the Active Route and exchange of Routes and Waypoints over the network:
- TZ V3: NavNet 3D / TZtouch
- TZ V4: TZtouch2
- Route and Waypoint exchange through SD-Card

3 - Which Furuno Radars and Sounders is TIMEZERO compatible with?

TIMEZERO is compatible with the following DRS radar: DRSxD, DRSxA, DRS4DL, DRSx-NXT, DRSxA-XCLASS

TIMEZERO is also compatible with the commercial grade radar FAR2xx7, FAR15xx, FAR2xx8 and FAR3xx0.

Note: TZ Professional comes with Radar capability included (Radar Module included). The Furuno Radar Module needs to be purchased separately for TZ Navigator.

TIMEZERO is compatible with the following Ethernet Sounders: DFF1, BBDS1, DFF3, DFF3D, DFF1-UHD, FCV1150 and TZT2 Internal Sounder.

Note: The Furuno Sounder Module needs to be purchased separately for both TZ Professional and TZ Navigator.

4 - Is TIMEZERO compatible NavNet 1/Vx2?

TIMEZERO software offers limited compatibility with older generation Furuno NavNet MFDs (NavNet1 and NavNetVx2). TIMEZERO can be connected to an original NavNet or NavNet Vx2 Ethernet network to get navigation sensor information (Position, Heading, Wind, Speed...) through the network. The Radar is not viewable or controllable on the computer with NavNet 1/Vx2 and the Route and Waypoint cannot be shared.

Note: the DFF1 and DFF3 cannot be connected simultaneously to TIMEZERO and NavNet 1/Vx2. In other words, it is NOT possible to use the Sounder module when connected to a NavNet 1/Vx2.

5 - [Can I use the charts purchased for NavNet3D/TZtouch/TZtouch2 in TIMEZERO?](#)

One license of TIMEZERO that has the Radar capability can be link to one MFD SystemID in our internal database. When a TIMEZERO Serial Number is linked with a MFD, two Unlock Codes are automatically generated when any chart is purchased. This allows you to install and unlock the charts on both systems (MFD and TIMEZERO) using the two independent Unlock Codes provided for the same chart area.

6 - Can I connect any Furuno Digital Radar Sensor (DRS) directly to TIMEZERO?

Yes, any DRS can be viewed and controlled directly from TIMEZERO without MFD on the network. Please note that GPS and Heading will need to be connected to TIMEZERO (either using NMEA0183 or NMEA2000) for Radar Overlay and ARPA Targets.

Note: TZ Professional comes with Radar capability included (Radar Module included). The Furuno Radar Module needs to be purchased separately for TZ Navigator.

7 - [Can TIMEZERO be connected directly to a Furuno Ethernet Sounder?](#)

Yes, with the optional Furuno Sounder module, you can connect a Furuno Ethernet Sounder (DFF1, BBDS1, DFF3, DFF1-UHD or FCV1150) directly to TIMEZERO without MFD on the network.

Note: The Furuno Sounder Module is incompatible with NavNet1& NavNetVx2 MFDs.

8 - [Which type of Sounder can I use to create Bottom Hardness map in TIMEZERO?](#)

TIMEZERO Professional with PBG module can be connected to the Furuno Ethernet Sounder BBDS1 or DFF1-UHD to create Bottom Hardness map overlay. The internal TZT2 Sounder can also be used to create Bottom Hardness map.

Make sure that your Sounder is installed with a compatible Transducer. Please refer to your Furuno Dealer for more information.

TIMEZERO Professional with PBG module and Bottom Hardness module can be connected to: Simrad ES70 and ES80 (\$PSIMDHB sentence) / Koden CVS-FX series (\$PKODS sentence) / Hondex HDX-121, HE-1500Di, and HE-7300Di (\$PHDX sentence) / JRC JFC-130 series (\$PJRCS sentence) / Seascan (\$PSAP sentence)

9 - [Can I connect the Wireless DRS4W Dome Radar \("1st Watch Radar"\) to TZ Navigator/Professional?](#)

No, at this time the 1st Watch DRS4W wireless Radar only works on the iPad. Only the TIMEZERO App on iPad can be connected to the DRS4W and display Radar Overlay on the chart.

10 - Can TIMEZERO display the Weather Information from a Sirius or XM receiver?

At this time, TIMEZERO software can only display weather from GRIB files. TIMEZERO includes a Weather Service, an innovative and intuitive interface that allows you to download customized GRIB files automatically from our server using an Internet connection or email. We will be evaluating the integration with the XM/Sirius receiver later.

We give you the answer to the 5 most Frequently Asked Questions

The TIMEZERO Frequently Asked Questions gather all the questions that you wonder about the marine navigation solutions with their answers. Divided in two categories (TIMEZERO for PC and TIMEZERO for iPad), the FAQ answer to a wealth of requests: software function, type of connection, differences between marine charts, compatibility with navigation hardware, ...



Some of the request are more reluctant than other, so we have decided to concentrate the 5 most Frequently Asked Questions in this article. Find out all the answers about main subjects consulted in TIMEZERO FAQ.

What are the operating systems compatible with TIMEZERO?

TIMEZERO is compatible with Microsoft® Windows® 7 SP1, Windows® 8 Windows® 10.



Caution: Windows Server and Media Center editions are not supported.

What are the minimum requirements to install TIMEZERO?

Your PC must comply with some material and system requirements in order to use TIMEZERO.

System Requirements

- Microsoft® Windows® 7 SP1, or Windows® 8.1 or Windows® 10
- CPU 1.5 GHz
- 4GB of RAM
- Video Board:
- Minimum – integrated Intel Graphic Chipset
- Recommended – Dedicated Video Board with 1 GB VRAM or Intel HD 4th generation or above
- Screen Resolution: 1024 X 600 (1280 x 800 or above recommended)
- Hard Disk: 30 GB of free memory
- USB or Serial Port for connecting instruments or 100 Base-T Network Adapter for Furuno Ethernet Sensors

Note: These system requirements refer exclusively to TIMEZERO version 3

What charts are compatible with TIMEZERO?

TIMEZERO uses MapMedia “.mm3d” charts.

These are the same charts used in the Furuno NavNet3D MFD, TZT and TZT2 series Multi-Function Chart Plotter



Displays.

MapMedia Raster Charts are based on official hydrographic office and select private sourced paper charts.

MapMedia Vector Charts are based on official hydrographic office, C-MAP or are “Datacore by Navionics”.

Navionics and C-MAP are the world’s leading specialists in nautical vector charts.

Is TIMEZERO compatible with my GPS and instruments?

TIMEZERO is compatible with any GPS or instruments that output the [NMEA 0183 format](#).



Warning: Bluetooth devices are not supported.

What chart regions are available on the TIMEZERO App?

Mega Wide Raster Chart: NOAA U.S.A.



The MapMedia US Mega Wide Raster nautical chart covers the following areas:

US Coast including:

- Alaska
- Hawaii
- Puerto Rico
- US Virgin Islands
- Mariana Islands
- Great Lakes

Mega Wide Raster Chart: Canada



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 - The MapMedia Canada Mega Wide Raster nautical chart covers the following areas:
 - West Coast of Canada
 - East Coast of Canada including St Laurence River
 - Great Lakes (US & Canada)
- There are no satellite photos available within this chart region.

Mega Wide Raster Chart: Caribbean



The MapMedia Caribbean Mega Wide Raster nautical chart covers the following areas:

- Baja California
- Mexico
- Guatemala
- Honduras
- Belize
- Costa Rica
- Nicaragua
- Panama
- Cuba
- Haiti
- Jamaica
- Dominican Republic
- Grenada
- North Colombia
- Cayman Islands
- Puerto Rico
- Lesser Antilles
- Windward Islands
- Venezuela

Wide Raster Chart: English Channel – Hamburg



The MapMedia English Channel – Hamburg Wide Raster nautical chart covers the following areas:

- Southern United Kingdom
- Belgium
- Netherlands
- Southern France
- North Western Germany
- From River Camel to The Wash and Portsall to Foehr
- Ijsselmeer
- Amsterdam
- Waddeneilanden
- Ostfriesische Inseln Bucht
- Elbe

Wide Raster Chart: United Kingdom



The MapMedia United Kingdom Wide Raster nautical chart covers the following areas:

- United Kingdom
- Ireland
- Belgium
- Upper Northeastern France
- Hebrides
- Shetland Islands
- Orkney Islands
- Island of Man
- Cardigan Bay
- Bristol Channel
- English Channel
- Strait of Dover
- Amsterdam

Wide Raster Chart: Europe West



The MapMedia Europe West Wide Raster nautical chart covers the following areas:

- English Channel
- French Atlantic Coast
- Northern Spain
- Portugal

Wide Raster Chart: Mediterranean Sea – West



The MapMedia Mediterranean Sea-West Wide Raster nautical chart covers the following areas:

- Western Italy
- Southern France
- Eastern Spain
- Straits of Gibraltar
- Northern Morocco
- Algeria
- Balearic Islands
- Corsica
- Sardinia

Wide Raster Chart: Mediterranean Sea – Central



The MapMedia Mediterranean Sea-Central Wide Raster nautical chart covers the following areas:

- Italy
- Adriatic Sea
- Corsica
- Sardinia
- Tunisia
- Western Libya

Wide Raster Chart: Mediterranean Sea – East



The MapMedia Mediterranean Sea-East Wide Raster nautical chart covers the following areas:

- Eastern Libya
- Egypt
- Israel
- Syria
- Cyprus
- Crete
- Western and Southern Turkey
- Greece (including the Bosphorus)

There are no satellite photos available within this chart region.

Wide Raster Chart: Polynesia and New Caledonia



The MapMedia Polynesia and New Caledonia Raster nautical chart covers the following areas:

- Polynesia
- New Caledonia
- Society Island
- Tubai
- Wallis and Futuna
- Archipelago Des Tuamotu
- Gambier Island
- Marquises Island
- Loyauté Island

There are no satellite photos available within this chart region.

Wide Raster Chart: Islands of Atlantic



The MapMedia Islands of Atlantic Raster nautical chart covers the following areas:

- Azores Islands
- Canary Islands
- Madeira Islands
- Cape Verde Islands

There are no satellite photos available within this chart region.