

# Nobeltec TimeZero V2.0.2

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## New Features:

### Windows 8 Compatibility

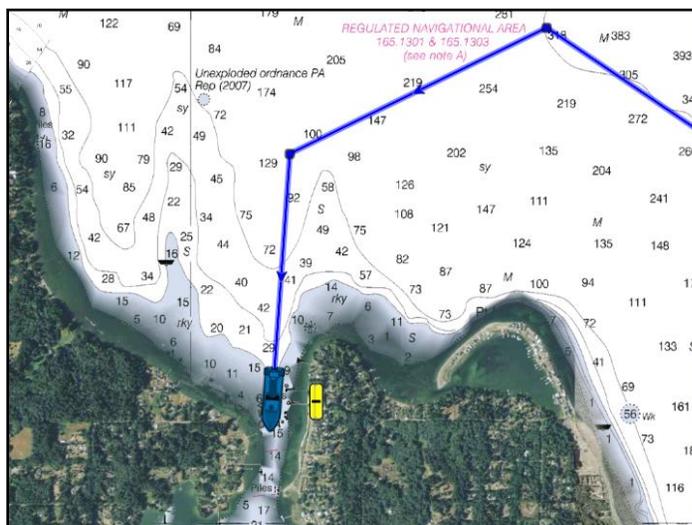
Nobeltec TimeZero v2 is now compatible with Windows 8 for Intel Compatible PC and will work as a Windows “desktop” app.



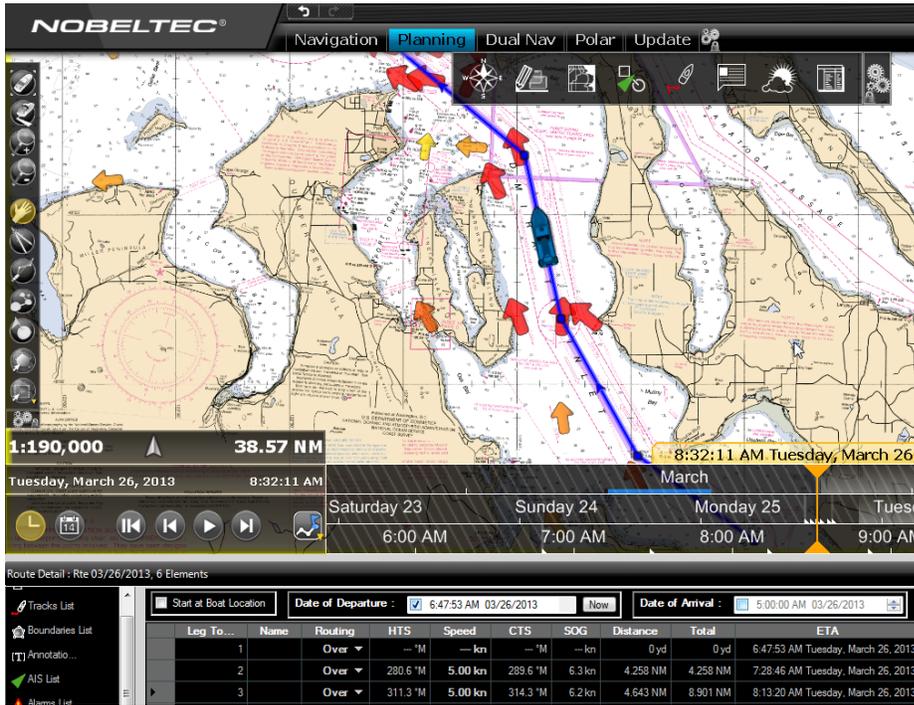
***IMPORTANT NOTICE:*** Nobeltec TimeZero does not run on Windows 8 “RT”. Windows RT is a special version of Windows 8 that is specifically designed for tablets running ARM processors. Nobeltec TimeZero will only run on Windows 8 designed for x86 (32 or 64 bits) Intel processor.

### Tides and Currents Route Optimization

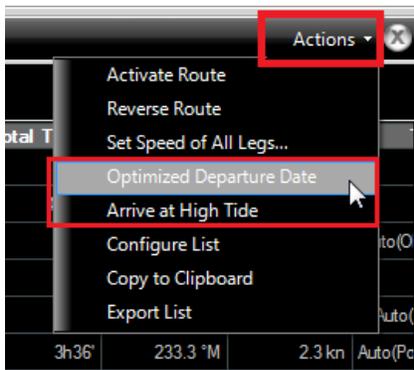
Nobeltec TimeZero V2 can automatically tell you what the best departure time would be to arrive at your destination during high tide. This feature is very useful when planning a trip to a marina with low draft:



If tidal currents are available in your area, Nobeltec can also compute the best time of departure to minimize your travel time based on current forecasts along the route:



Thanks to these two new features available in the “Action” menu of the Route Detail, Nobeltec TimeZero becomes the ultimate planning tool when preparing your routes:

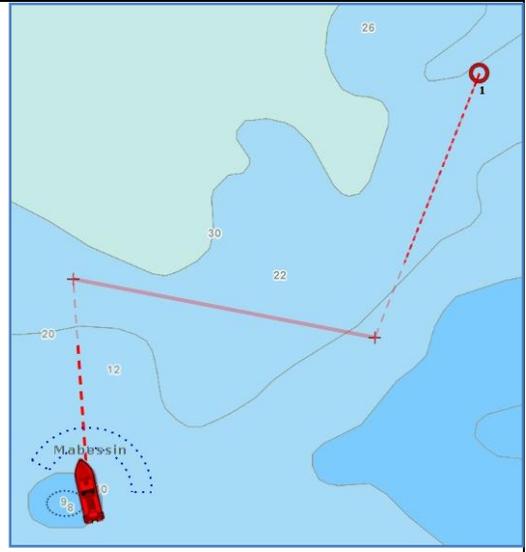


## AIS Graphic Closest Point of Approach

Nobeltec TimeZero V2 brings major improvements to the presentation of AIS information. Graphic representation of the target Closest Point of Approach (Graphic TCPA) is available on the selected targets or any target that breaks an alarm condition. This information is continuously displayed on screen and warns you about potential collisions by locating on the chart the location where you will meet a target:



Graphic CPA on Selected Target



Graphic CPA on dangerous Target(s)

## AIS Color & Size

The default color of ARPA and AIS targets can be changed in the options:

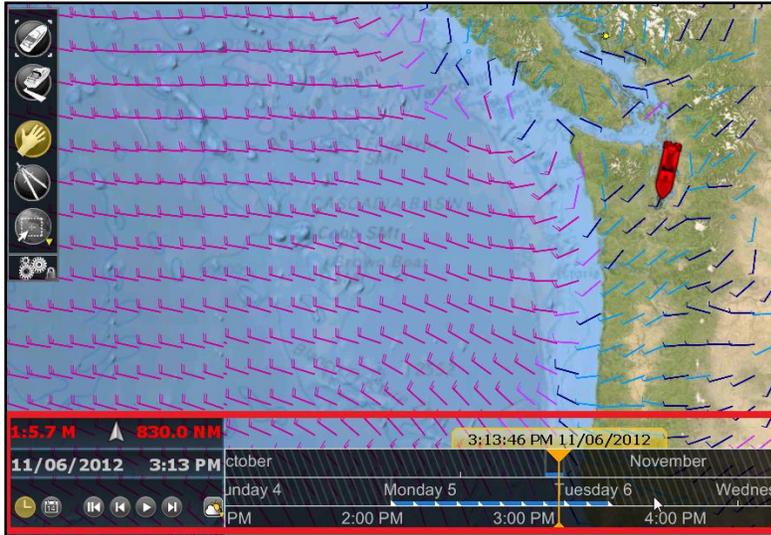
Default ARPA Color	
Default AIS Class A Color	
Default AIS Class B Color	

The default AIS color can also be set to "Variable". This allows you to view at a glance if you are close to a Cargo, Ferry or fishing boat:

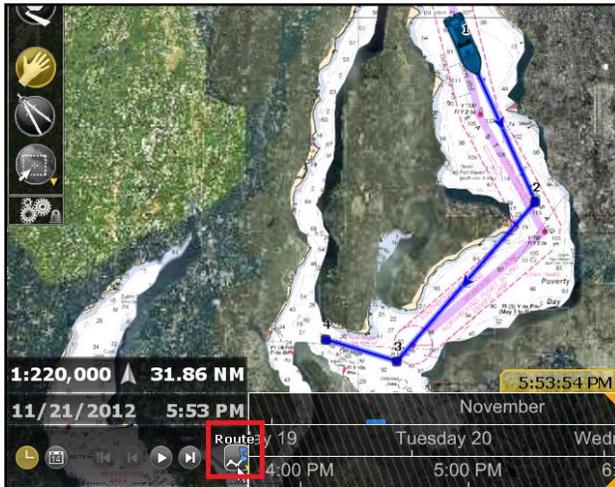


## Time Bar

TimeZero V2 introduces a brand new Time Bar available in the Planning WorkSpace at the bottom of the screen:



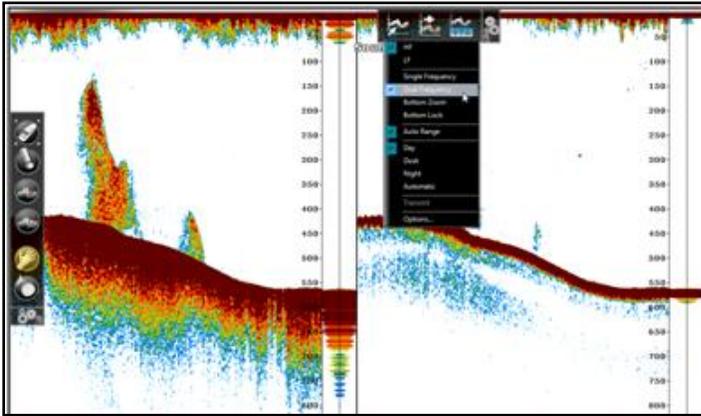
The Time Bar can be set in various modes (Tide, Weather or Route), adjusting the date, steps and playback speed automatically:



By manipulating the cursor to any time or date, it is also very easy to check the weather conditions and the tides and currents.

## Sounder Improvements (Trident or Catch with Sounder Plus Pack Required)

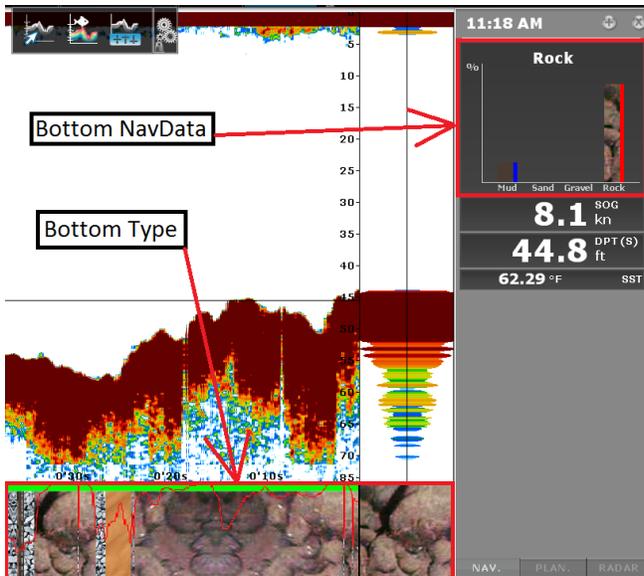
TimeZero can display two sounder pictures at the same time for Dual Frequency and Zoom Modes (Bottom Lock & Bottom Zoom):



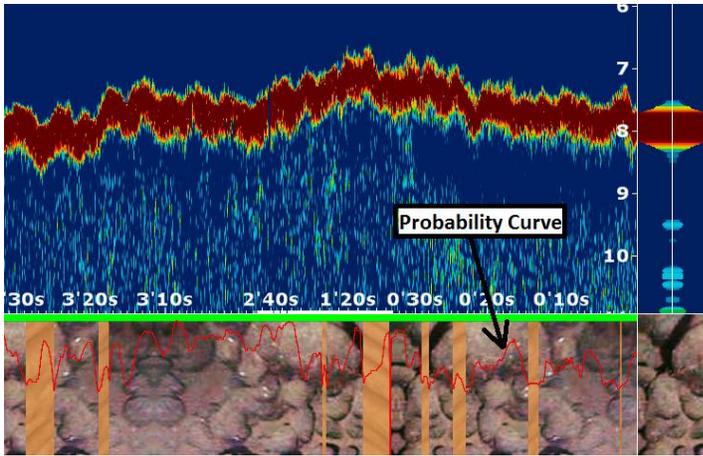
Paired with a Furuno Ethernet Sounder, TimeZero is the most powerful PC Sounder solution available on the market.

## Bottom Discrimination with BBDS1 (Catch with Sounder Plus Pack Required)

The Furuno BBDS1 Black Box Ethernet sounder can be directly connected to TimeZero to collect depth and seabed information. TimeZero can display Bottom Classification (under the sounder echogram or in the NavData) as well as Bottom Hardness using a color scale on the chart (similar to the depth shading).

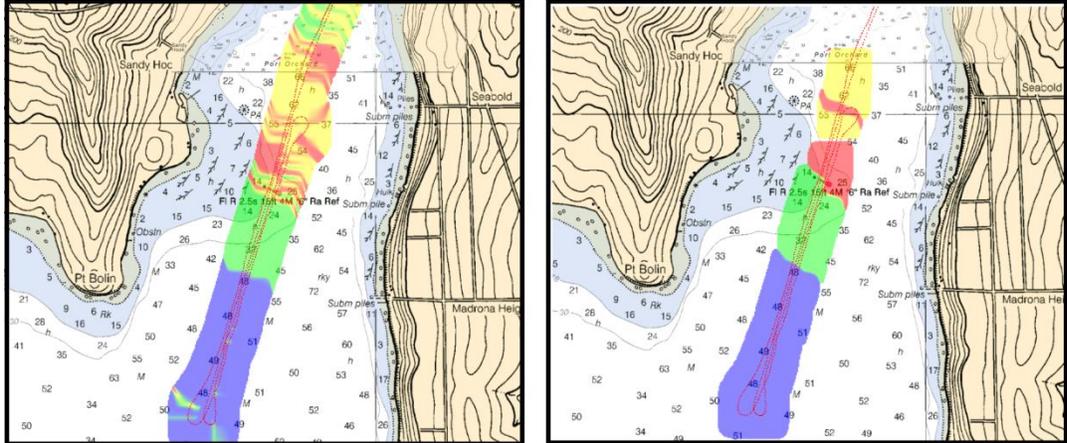


A unique feature of the BBDS1 is that it also sends the probability of discrimination, allowing you to know how reliable the data is in particular areas.



"Aquarium" mode with probability curve

This probability can be used in conjunction with the Bottom Hardness color scale to show data only in areas where the probability is high (filtering out uncertain data):



"Unfiltered" Bottom Hardness

Bottom Hardness with points over 70% probability

These unique features of TimeZero make the BBDS1 a very powerful solution to increase your productivity by analyzing the bottom type before you drop your fishing gear.

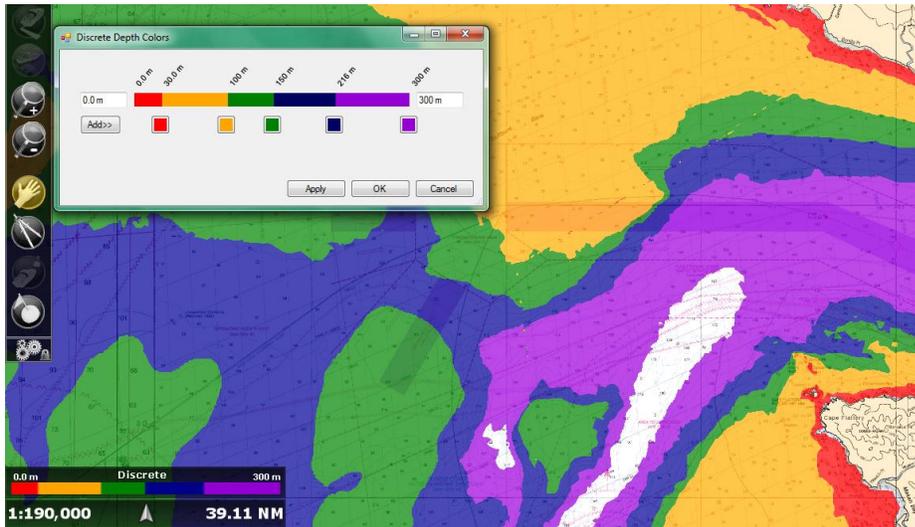
**IMPORTANT:** The BBDS1 only works with select Transducers (see below), and the Bottom classification performs only from 5-100 meters (slightly deeper performance may be possible, but has not been tested or verified)

Transducer	Description	BBDS1
520-5PSD	600W Plastic Thru-Hull	✓
520-5MSD	600W Bronze Thru-Hull	✓
525-5PWD	600W Plastic Transom Mount	✓
525STID-MSD	600W Bronze TH Multi-Sensor	✓
525STID-PWD	600W Plastic TM Multi-Sensor	✓
CA50/200-12M*	1kW Bronze Thru-Hull	✓
CA50/200-1T*	1kW Rubber Coated	✓

\*MB1100 is a Required Option

## Discrete Depth Shading (Catch Required)

The Depth Shading can be set to a user selectable discrete color palette. This allows specific depths to be highlighted with specific colors:



## New InSight 2KW Radar (Trident or Catch with InSight Radar Plus Pack <sup>(\*)</sup>)

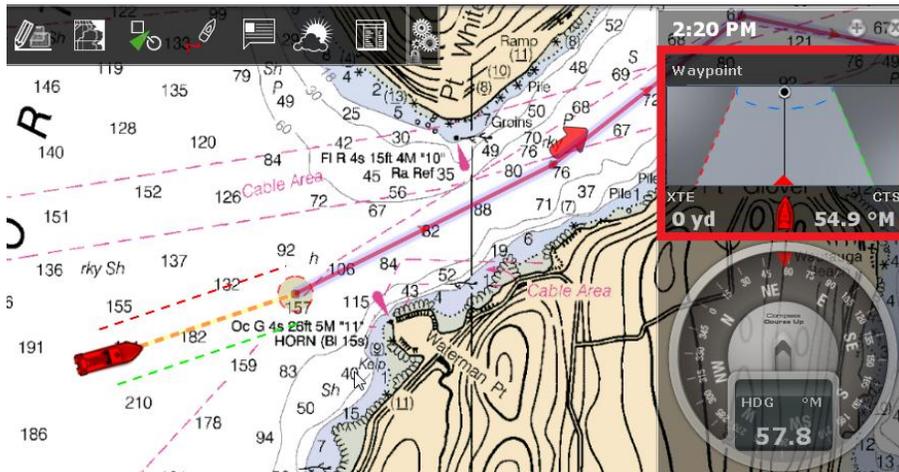
Nobeltec TimeZero V2 is compatible with two new 2KW Ethernet Radars that joins the extensive InSight Radar offering. The MDS1-R and MDS8-R Radar are Ethernet sensors that don't require a control box (MDS box). Just plug them directly to your computer or via a Hub/Switch:

*(\*) InSight Radar Plus Pack included when purchasing the Radar*

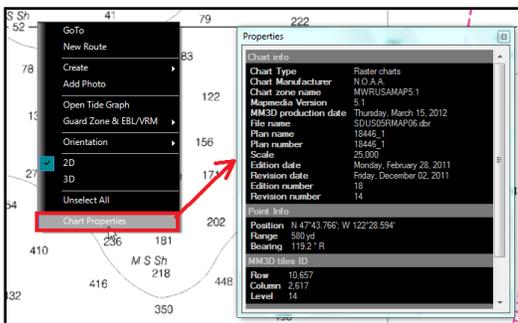
<p><b>Nobeltec InSight Ethernet Radar (2Kw only)</b>          Fix IP Address: 192.168.0.1          Subnet Mask: 255.255.255.0</p> <p>12/24V</p> <p>Ethernet Switch</p> <p>Ship Network</p> <p>Nobeltec Time Zero with Radar Plus Pack          Fix IP Address: 192.168.0.10          Subnet Mask: 255.255.255.0</p>	<p><b><u>MDS-1R:</u></b></p> <p>Diameter: 12 2/5 in.          Peak Power: 2KW          Range: Up to 24NM          Height: 8 1/10 in.          Weight : 9.9 lb. (4.5 kg)          Horizontal Beam: 7 Deg          Vertical Beam: 25 Deg          Rotation: 30RPM          Cable Length: 33 ft. (10 m)          Voltage: 10.8 to 41.6 Vdc          Power : 30 watts or less</p>	<p><b><u>MDS-8R:</u></b></p> <p>Diameter: 19 15/16 in.          Peak Power: 2KW          Range: Up to 24NM          Height: 8 3/4 in.          Weight: 15.4 lb. (7 kg)          Horizontal Beam: 4.7 Deg          Vertical Beam: 25 Deg          Rotation: 30RPM          Cable Length: 33 ft. (10 m)          Voltage: 10.8 to 41.6 Vdc          Power: 30 watts or less</p>
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## Misc New Features

- A new Waypoint display (“Highway”) can be added to the NavData:



- TimeZero V2 uses inertial scrolling when panning the chart with the mouse (drag). The scrolling motion of the chart continues in a decaying fashion after releasing the mouse.
- TimeZero V2 introduces a new “Auto Chart” mode that will automatically select the best chart source available for the zoom level and area.
- New Speed and Temperature alarms can be set to trigger alarms when specific Speed or Temperature values are reached (over, under, within, out of)
- The chart properties (source, issue date, etc...) can be displayed by right clicking on the chart and selecting “Chart Properties”:

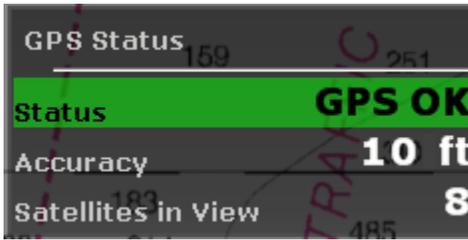


- The Course Over Ground (COG) Predictor can be set to either a vector (according to SOG) or a fix distance:



- Damping for COG and SOG can be adjusted from the “Initial Setup” Options. This setting can be useful when the GPS sends unreliable COG value (a COG that “jumps all over the place”) to smooth the value in TimeZero.
- A new “GPS Status” NavData can be added to the NavData panel. This NavData displays a clear “Good/No Good” GPS status (in green or red) as well as the predicted accuracy (based on HDOP)

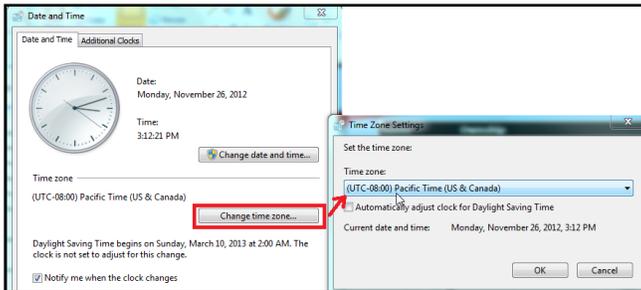
and the number of satellites in view:



- The Time Zone used by the software has been added to the Current and Tide window:



Note that TimeZero always uses the time zone selected on the computer's "Date & Time" control panel :



- Chart Unlock Codes are now backward compatible. This allows you to install a previous version of the .mm3d chart file if you don't have the current version available.
- You can set TimeZero to record additional time data within the track and display them by putting the cursor over the track. TimeZero will display generic track information (such as the name, length, etc...) as well as the recorded information contained in the track point nearest to cursor position



- The size of Targets (AIS, ARPA & DSC) can be adjusted from the Target Options
- Forking a route (using the Right Click contextual menu) now creates a duplicate of the Route
- Hiding Route in the Radar Workspace also hides the Active Route  
*Note: The Active Route is always displayed on the Plotter and cannot be hidden*
- Updated Tides and Currents for North America
- New "Performance" setting allowing TimeZero to take full advantage of dedicated video board

## Main Bug Correction (non-exhausting)

- The "Disk Full" alarm has been removed
- Improved performance when a route is activated
- Tidal Current Direction (in NavData and Tooltip) is now always displayed in True North
- Fixed a problem causing route over 20 waypoints to not be sent correctly to a GPS (using the NMEA RTE/WPL sentences)
- A bug displaying the wrong unit on some Active Captain marinas has been solved
- An inversion in the CCRP settings (minus for port) has been corrected
- Improved AIS Online connection
- Fixed a problem that prevented the Anchor Alarm circle from being displayed (if the computer was not connected to a Heading Sensor)
- Locking/Unlocking Areas, Circles and lines also locks/unlocks there points
- Fixed sorting in the AIS Target NavData (does not display "lost" target in the list anymore)
- Fixed a problem that causes the internal buzzer of the PC to sound when a Radar Guard Zone is setup
- Fixed a problem that could cause TimeZero Trident to freeze with the InSight Radar under specific conditions
- Improved FLIR M-Series connection