Troubleshooting

Security key is not recognized

Confirm that the:

- ❑ security key is securely connected
- ❑ security key does not show signs of corrosion
- ❑ BIOS settings of the parallel port are set to SPP mode
- ❑ parallel port is not in Hibernation mode (laptops only)
- ❑ security key drivers are updated. To update the drivers, use ddinst32.exe in the Util\Ssi folder on the HYDRO*pro* CD. (Depending on the operating system, look in the NT\i386 or Win folder.)

No data appears in the *Raw Data Test* dialog (available through the *Configure Equipment* dialog)

Confirm that the:

- ❑ external device is powered up and outputting data
- ❑ external device is connected to the correct COM port
- ❑ cable is not damaged
- ❑ COM port is operating correctly
- ❑ communication parameters are correct
- ❑ COM port is not being used by another application

No data appears in the Navigation displays when online (confirm first that data appears in the *Test Data* dialog)

Confirm that the:

- ❑ baud rate parameters are correct
- ❑ format of the data string is correct
- ❑ data string contains no error flags
- ❑ custom settings of the equipment configuration are correct
- ❑ status of the position/device is suitable
- ❑ security key is connected to the computer and recognized
- ❑ displays are configured to display data from the desired device

Data periodically times out

Confirm that:

- ❑ there are no loose connections and that the cables are in good repair
- ❑ the set timeout period reflects the update rate of the device
- ❑ the device has a stable status
- ❑ there are no electro magnetic field (EMF) sources affecting devices or data links (may have dependent characteristics, e.g., engine rpm, vessel location)—causing data corruption
- ❑ the external devices are correctly set up, e.g., the antenna is securely fixed, the transducer is deep enough to avoid aeration

Checklist

External Equipment Checks

- ❑ External devices are connected to the computer
- ❑ External devices are turned on and operating correctly
- ❑ Communication parameters are correct
- ❑ Data appears in the *Test Data* dialog in each equipment configuration

Navigation – Equipment Checks

- ❑ Equipment devices are correctly configured
- ❑ Data appears in the real-time displays when on line

General Navigation Checks

- ❑ Security key is connected and recognized
- ❑ Correct project selected
- ❑ Geodetics are correct
- ❑ Event logging tabs are correctly set
- ❑ Correct guidance object is selected in the steer-by association
- ❑ Real-time displays are configured as required
- ❑ Position and depth data is correct

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Trimble

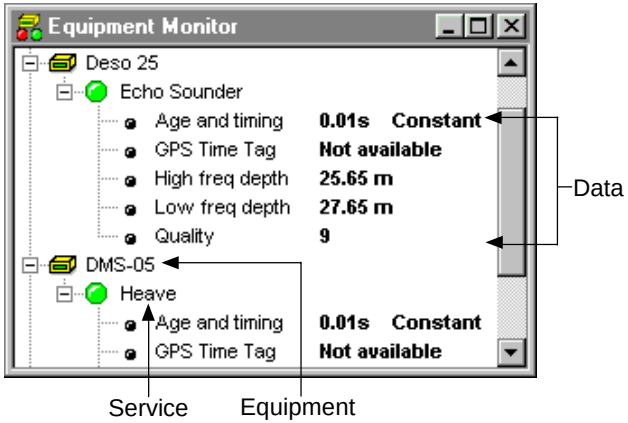
HYDRO*pro* Navigation
Quick Field Guide

Shortcut Keys

Press	To …
General shortcut keys	
F1	open the Help
F5	go online
F6	log on
F7	trigger user event 1
F8	trigger user event 2
F9	edit the current steer-by
F10	reverse the direction of the selected guidance object
F11	select the next guidance object
F12	select the previous guidance object
Ctrl+N	create a new Navigation project
Ctrl+O	open a Navigation project
Alt+Enter	open the properties of the selected display
Plan View Map shortcut keys	
←	pan the *Plan View Map* to the left
→	pan the *Plan View Map* to the right
↑	pan the *Plan View Map* upwards
↓	pan the *Plan View Map* downwards
Page Up	zoom in on the *Plan View Map*
Page Down	zoom out from the *Plan View Map*
Alt+Page Down	zoom to view all objects on the *Plan View Map*
Home	rotate the *Plan View Map* left by 10°
End	rotate the *Plan View Map* right by 10°

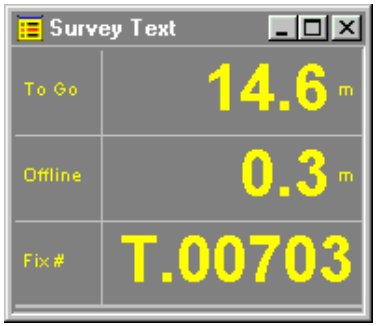
Real-Time Displays

Equipment Monitor



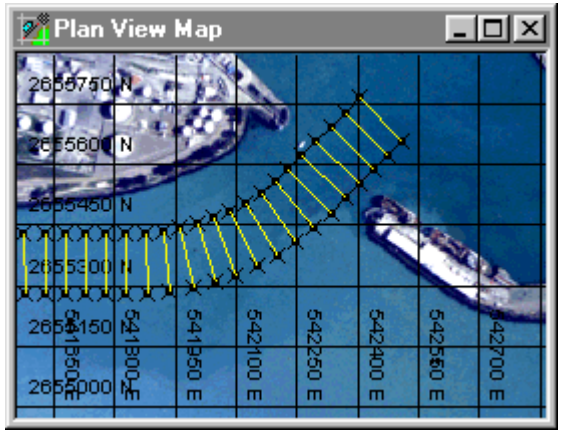
Generally, use the *Equipment Monitor* real-time display for equipment troubleshooting. A tree structure shows each equipment configuration listed. Below each equipment configuration, appears the services that have been configured. When on line, a green status light shows that data has been received and decoded, and that it has passed any quality checks. A red status light shows that there is no data, or that there is a problem with the incoming data.

Survey Text



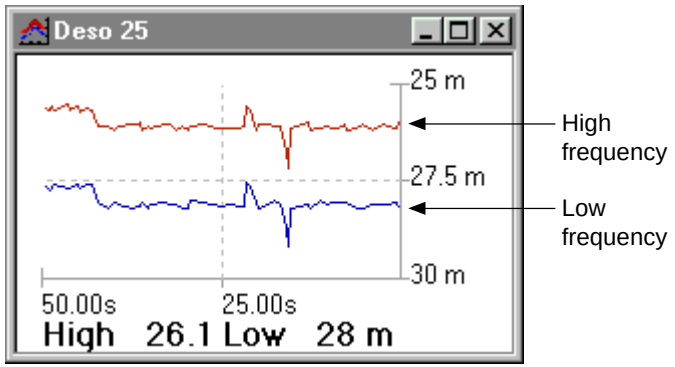
You can configure the *Survey Text* real-time display to show a combination of equipment, vessel, guidance, and system information. You can open any number of displays and configure each one to show different information.

Plan View Map



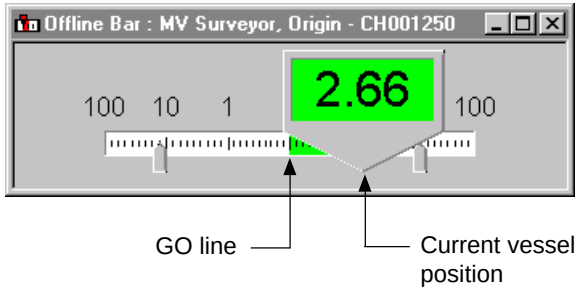
Use the *Plan View Map* real-time display to see a "bird's-eye view" of the survey area. You can display background files and plot guidance object groups, vessels, and surveyed events.

Echo Sounder Trace



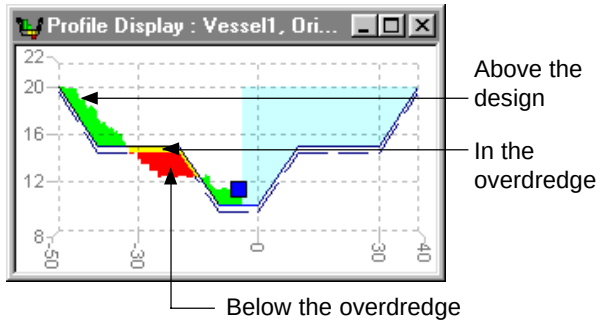
Use the *Echo Sounder Trace* real-time display to graphically display the echo sounder depths (in some cases you can display environmental sensor data). You can also apply heave, tide, and transducer depth corrections to the depths.

Offline Bar



Use the *Offline Bar* real-time display to show how far the vessel is port (left) or starboard (right) of the selected guidance object (GO). The 0 value on the bar indicates the GO line. The bottom of the indicator is the current vessel position. When the indicator is green, steer the vessel to the left to bring the vessel back on track. When the indicator is red, steer to the right to bring the vessel back on track.

Profile Display



Use this display to show the reduced level (RL) of the dredge head or echo sounder with the channel design information. This information is generated from 3D guidance object information. Green shows that the reduced level is above the design. Red shows that the reduced level is below the overdredge. Yellow shows that the reduced level is in the overdredge region.