



Sea Scan ARC Explorer Quick-Start Guide

February 2013

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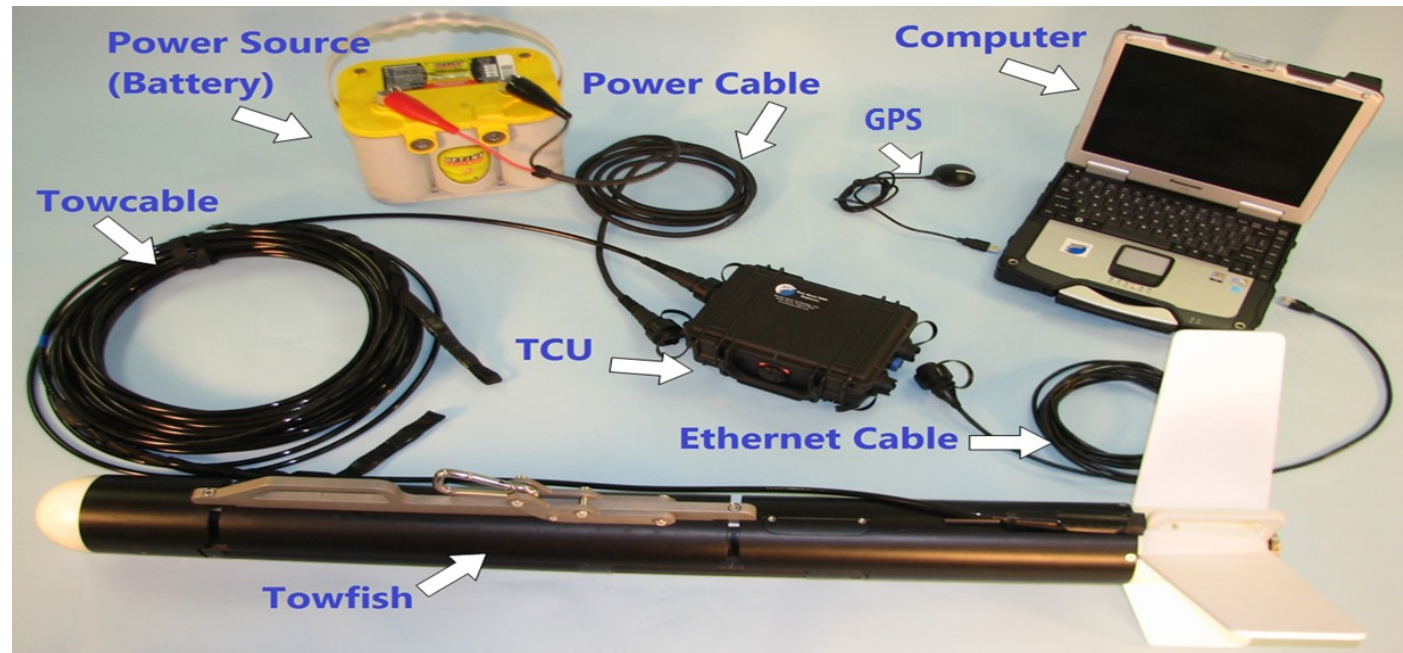
(804) 693-9602

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System Components

Verify that you have all of the following system components:

- Windows XP, Vista, 7, or 8 based PC
- Topside Communications Unit (TCU)
- All 4 Back Fins and Tailfin Retainer Screw
- Power Cable
- Power Source
- Tow Cable
- Towfish
- Transducers
- USB Cable
- Ethernet Cable (connects PC to TCU)
- Global Positioning System (GPS)



(1) Software and Drivers (First-Time Configuration)

- Insert the included USB Flash Drive.
- If Windows does not give you a choice to open a folder, use Windows Explorer to browse to the Flash Drive.
- Inside the Sea Scan ARC Explorer folder, double click the "Install Sea Scan Survey Basic.exe file".
- You will be asked where to install the software; the default folders should be fine for most users.
- You will be asked to install Drivers and Charts. Select "Yes" and install them accordingly.

! **Important: Do not connect any devices before installing the software, as they will considerably slow the installation process.**

(2) Towfish Setup

! **WARNING: DO NOT PLUG OR UNPLUG THE TOW CABLE IF THE TCU's POWER IS ON!**

- Verify that the Topside Communications Unit (TCU) power is off!
- Verify that the wet-mate connector is clean and that the connector into the towfish is seated properly.

! **An occasional cleaning out of the connector can be done with a silicone-based spray (a bottle comes with the system's kit).**

- Verify the back fins are correctly installed and that the locking screw is tight.
- Plug the tow cable into the TCU.
- Plug the tow cable into the connector of the towfish.

(3) Topside Communications Unit (TCU)

- Plug the TCU into the computer using the provided Ethernet cable.
- Connect the power cable to the power source.

! WARNING: DO NOT PLUG OR UNPLUG THE TOW CABLE IF THE TCU's POWER IS ON!

- Plug the power cable into the TCU.
- Open "Sea Scan Survey," turn on the TCU, and follow steps *a-d* to verify that it shows in the software's SONAR Interface Manager:
 - a.) Right click on the waterfall (the black area in the middle of the computer screen).
 - b.) Click "Sonar Interface" on the pop-up menu.
 - c.) Select "ARC Explorer." If the button on the right says "Stop", the Topside Module is already selected. If it says "Start," click it.
 - d.) At the bottom right, the SONAR Status should change from red to yellow, then green, and read "SONAR Connected."

If the SONAR status remains red, please refer to the "Sea Scan Survey" software manual on the installation disc before you proceed!

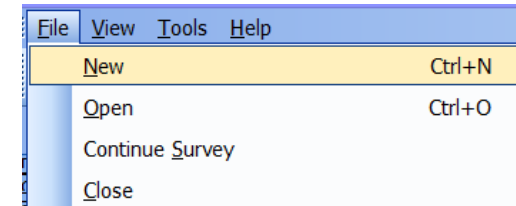


(4) The Global Position System (GPS)

- Plug the GPS into the computer.
- In "Sea Scan Survey," right click on the waterfall and select "NMEA Data Input" from the list that appears in the pop-up menu.
- Under Available Ports, click the port to which your GPS is connected.
- Click the "Add" button; then click OK.

(5) Your First Survey

- Click on File at the top-left of "Sea Scan Survey."
- Select New from the dropdown menu.



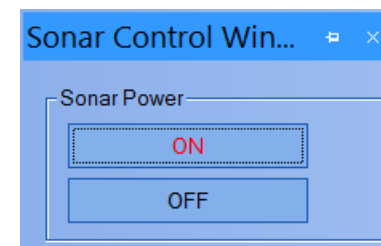
- In the box "Enter Name for," type the name of the survey.

! Tip: Make the name meaningful so that it can be easily found later.

- Add a description of the survey.
- Click the "OK" button at the top-left of the Begin a New Survey window.

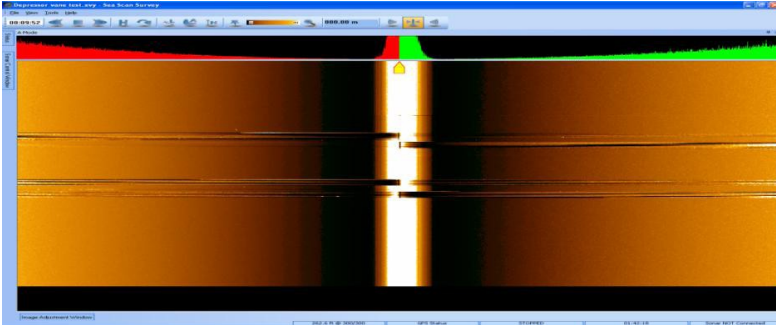
! Note: The survey is created now, but you must turn the SONAR on by performing the following steps.

- Move the mouse cursor over the "Sonar Control Window" tab on the left side of the "Sea Scan Survey" software.
- If using a dual-frequency SONAR, verify that the correct frequency is selected. Keep in mind, however, that higher frequencies are used for more detailed images at shorter ranges.
- Under SONAR, click the "On" button to begin collecting data.



(6) Performing a Rub Check

Perform a Rub Check rubbing your hand along the transducers to verify that the Sea Scan Survey shows a narrow strike across the left and right sides of the waterfall display, respectfully, as show in the following picture.



! Tip: Use dry fingers, a crumpled piece of paper, or (preferred method) a burst of compressed air for more effective rub checks.

! Note: If you have a dual-frequency towfish, the rub check must be done separately for each frequency.

(7) Preparing for Deployment

Assemble the cable as shown in the following pictures.



(8) Packing Up

Software

- In Sea Scan Survey, open the SONAR Control Window and turn the power "Off."
- Click File on the menu bar at the top of the software and select Close. This will close the survey, which will be stored on your computer's hard drive in the My Sonar Data folder.

Hardware

! **WARNING: TURN OFF THE TCU BEFORE UNPLUGGING THE TOWFISH! FAILURE TO DO SO CAN RESULT IN A DAMAGED TOWFISH OR TCU!**

- Disconnect the power cable from the power source and then from the TCU.
- Disconnect the tow cable from the towfish.

! **Verify the connectors are free of water. If water is inside the connector a quick blow of air from either a can of compressed air or a spray of silicone-based lubricant should be sufficient to avoid corrosion.**

- Put on any connector covers on the cable.
- Disconnect the towfish cable from the TCU.
- Disconnect the Ethernet cable from the TCU and then the computer.
- Replace the covers for the TCU's connectors.

(9) Support & Contact Info

Marine Sonic Technology, Ltd.

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White March, VA 23183-0730

For further technical support, call (800) 447-4804 or visit our website at <http://www.marinesonic.us>

International callers please use (804) 693-9602