

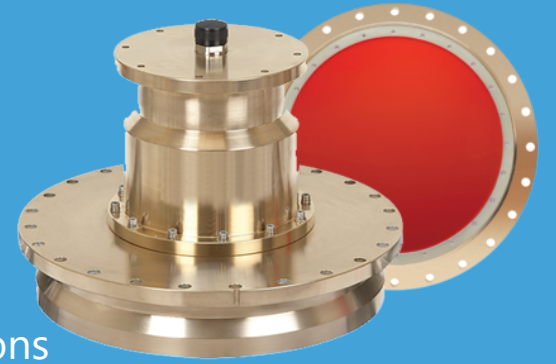
Getting Started with the Ocean Surveyor/Observer

Step 1

Verify all parts are present

The standard Ocean Surveyor/Observer includes:

- Transducer and Electronics Chassis
- I/O cable and RS-232 cables
- Shipping case
- Spare Parts Kit
- Software and Documentation download instructions
- Printed copy of Getting Started Guide
- Check packing slip for additional options



Step 2

Download the Software and Documentation

See the Download Instruction sheet for details:

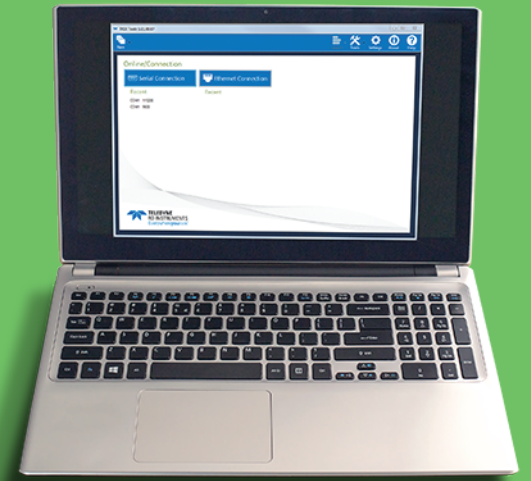
- Install TRDI Toolz
- Install VmDas
- Install WinADCP
- Download Ocean Surveyor/Observer manuals



Step 3

Communication and Power Setup

See the reverse side of this guide for detailed instructions.



Step 4

Read the Deployment Guide

Included with the system is a printed copy of the Deployment Guide.



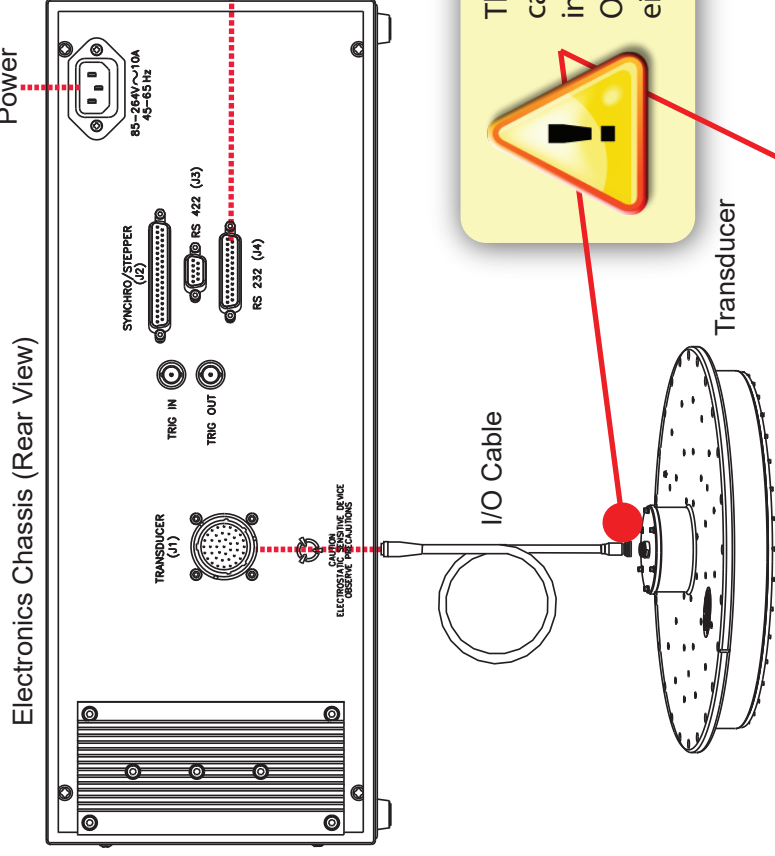
The Ocean Surveyor/Observer offers the following benefits:

- **Versatile:** Broadband signal processing combines with Narrowband processing to provide the ultimate in data versatility.
- **Compact:** Patented phased array transducers significantly reduce the transducer size and weight for ease of installation.
- **Comprehensive:** The Ocean Surveyor combines current profiling, backscatter profiling, and Doppler Velocity Log capability all within a single instrument.
- **Four-beam solution:** Patented phased array 4-beam design provides increased data reliability and quality

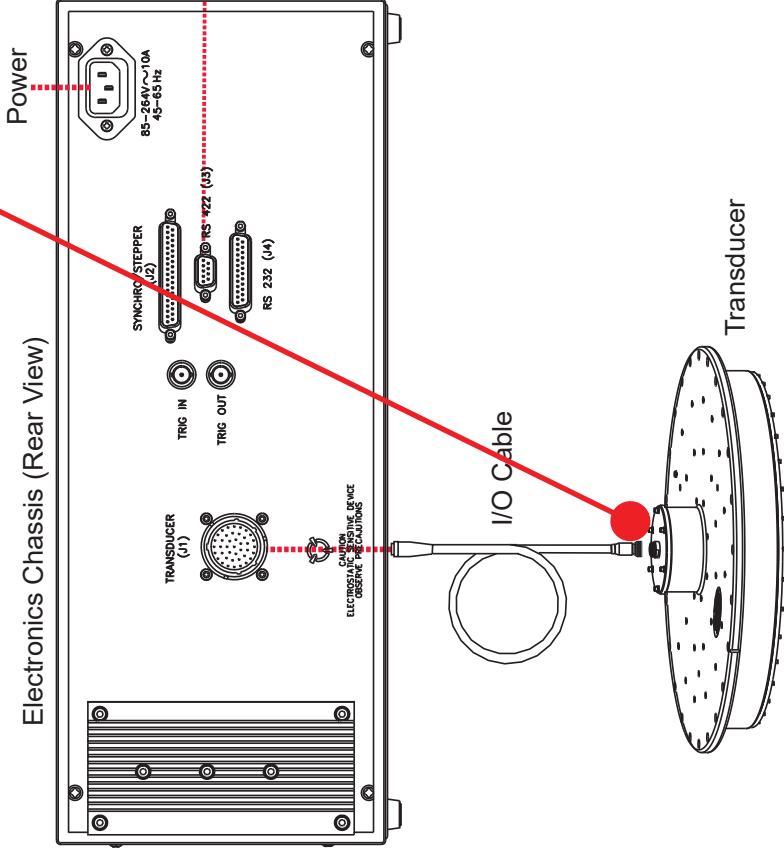
Ocean Surveyor/Observer Applications:

- Climate studies
- Mid-ocean frontal mapping
- Fisheries research
- Seismic, Cable and Pipe Laying Vessel Operations
- Renewable Energy
- Research Vessels
- Academic Coastal Oceanography
- Oil and Gas

Step 3 Communication and Power Setup - Detailed Instructions



The I/O connector on the transducer uses a 2-020 O-ring and the I/O cable (wet end) uses a 2-022 O-ring. Always check that both O-rings are in place when connecting the I/O cable to the transducer. The 2-022 O-ring has a tendency to fall out if the cable connector is dropped. If either of these O-rings are missing or damaged, the transducer will flood.



For serial cables over 15 meters long, use RS-422 (not included).

Chassis GND	1	_____	1
Rx_422A	2	_____	2
GND2	3	_____	3
Tx_422A	4	_____	4
Rx_422B	7	_____	7
Tx_422B	8	_____	8

9-pin to 9-pin with 422 to 232 converter

Step 3 A Connecting the I/O Cable

To connect the I/O cable:

1. Verify the O-ring on the end-cap connector (2-020) and the wet end of the cable (2-022) are installed.
2. Rotate the cable connector to align the key and pins and then insert it into the receptacle.
3. Push straight in to fully seat the connector.
4. Thread the coupling ring onto the receptacle to complete the connection.

Step 3 B Setting Up the Communications

To establish communications:

1. Connect and power the system as shown in Steps 3A and 3B.
2. Start the *TRDI Toolz* software (installed in Step 2).
3. Select **New Serial Connection**.
4. Select the COM Port the serial cable is connected to and set the Baud Rate from the drop down lists.



5. Click the **Connect** button. Once connected, the button will change to Disconnect.
6. Use **Alt+H** to switch to a Hard Break and then click the **Break** button located at the bottom left of the terminal window. The wakeup banner below will be displayed.

Ocean Surveyor Broadband/Narrowband ADCP
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Firmware Version 23.xx



Refer to the Deployment Guide for further information.