### Getting Started with the Pathfinder ROV DVL

Step

1

### Verify all parts are present

The standard DVL includes:

- Pathfinder ROV DVL
- Pigtail Power/Comm Cable
- Shipping case
- Spare Parts Kit
- Software and Documentation download instructions



Step

2

### Download the Software and Documentation

See Deployment Guide for details:

- Install TRDI Toolz software
- Install NavUI software
- Install other software as needed
- Download Pathfinder manuals



Step

3

Communication and Power Setup

See the reverse side of this guide for detailed

See the reverse side of this guide for detailed instructions.



Step

4

Read the Integration Guide



The Pathfinder DVL is based on a TRDI patented Phased Array design which offers the following benefits:

- Smaller Package while keeping the same specs
- Extended Range from a smaller size array
- Improved Low Altitude: New advanced Bottom
   Detection method has been developed to allow for
   the Pathfinder DVL to track closer to the seabed
- Improved Long Term Accuracy: Our BroadBand algorithm has been fine tuned to allow for twice the accuracy
- Improved position accuracy

The Pathfinder DVL comes with our most advanced Bottom Tracking algorithm, Bottom Mode 8, which offers the following benefits over earlier bottom tracking instruments:

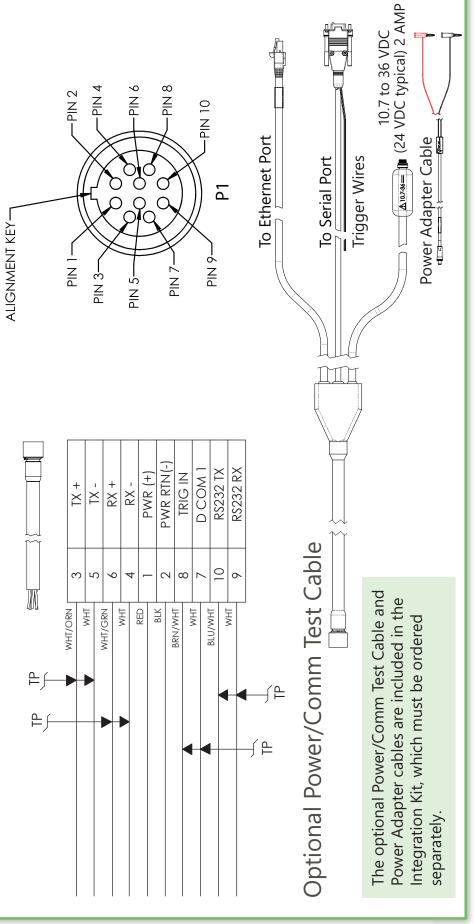
- Better Handling of Tilted or Over Slope Operation
- High resolution altitude
- Lowered Energy Demand
- More Robust Bottom Detection
- Superior Station-Keeping Performance



# ation and Power Setup - Detailed Instructions tep 3 Communic

## Step 3 A Wiring the Standard Power/Comm Pigtail Cable

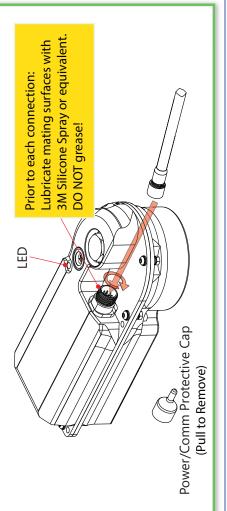
Wire the pigtail cable or use the optional Power/Comm Test Cable.



### Step 3 B Connecting the Power/Comm Cable

- Place the Pathfinder on its transducer face on a soft surface.
- Remove the Power/Comm protective cap and lubricate the connector.
- aligned. While keeping a slight inward pressure on connector ensuring the key and pins are properly onto the receptacle to complete the connection. Push the cable straight onto the Power/COMM connector is straight, thread the locking sleeve the cable connector and ensuring that the ω.
- Attach the Power/Comm cable to the computer's serial or Ethernet communication port. 4

The power supply should be able to source at least Connect +10.7 to 36 VDC (24 VDC typical) power. 1.5 to 2 Amps. 5



### Step 3 C Setting Up the Communications

To establish communications with the Pathfinder:

- Connect and power the system as shown in Steps 3A and 3B.
- Start the TRDI Toolz software (installed in Step 2)
- Select New Serial Connection or New Ethernet Connection. The command and control port can be Serial or Ethernet, but not both.

PIN 4

PIN 2

PIN 6

-PIN 8

-PIN 10

Enter the Pathfinder's communication settings. 4

For Serial comms select the COM Port the cable connected to and set the Baud Rate to 115200



192.168.1.100 - for Dynamic DHCP networks, see the Integration Guide For Ethernet comms enter the Static DHCP server IP or host name for information on how to determine the IP Address.

Enter the Port Number 1033

Select TCP

10.7 to 36 VDC



- Click the Connect button. Once connected, the button will change to Disconnect. 5.
- Click inside the terminal window and then click the Break (5.) button located at the bottom left of the terminal window. The wakeup banner below will be displayed. 6

All rights reserved.
Firmware Version: 83.xx
Current time is: 21/12/22,09:01:38.47
Break received, serial Teledyne RD Instruments (c) 2021

- Verify the LED on the Pathfinder is:
- Solid ON when no data is moving over the ports.
- Blinks 250ms/500ms when there is data on the serial port.
- Blink 250ms/1000ms when there is traffic on the Ethernet port.



Refer to the Integration Guide for further information.