

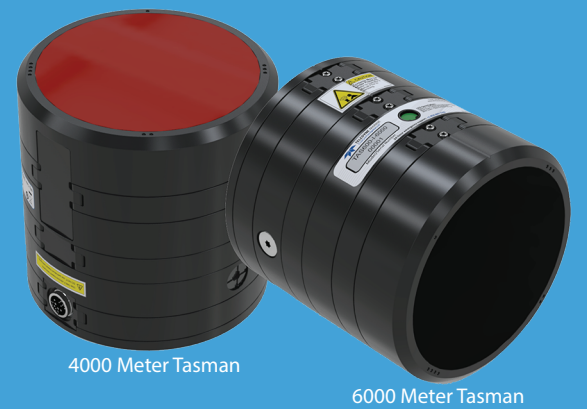
Getting Started with the Tasman DVL

Step 1

Verify all parts are present

The Tasman DVL includes:

- Tasman DVL
- Optional Spare Transducer*
- Pigtail Power/Comm Cable
- Shipping case
- Spare Parts Kit
- Navigation Software and Documentation CD
- Printed copy of Getting Started and Integration Guide



4000 Meter Tasman

6000 Meter Tasman

* Check packing slip for additional options

Step 2

Install the Software and Documentation

The Navigation Documentation and Software CD includes:

- TRDI Toolz software
- Tasman DVL Guide PDF
- Tasman Getting Started PDF
- Tasman Integration Guide PDF



Step 3

Communication and Power Setup

See the reverse side of this guide for detailed instructions.



Step 4

Read the Integration Guide

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



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

- Innovative phased array transducer design delivers enhanced position accuracy at a reduced size, eliminates the need for speed of sound correction, and reduces drag on your vehicle
- Optional XRT (Extended Range Tracking) delivers up to a 60% increase in bottom tracking range
- Field replaceable transducer
- Ethernet compatibility allows for plug-n-play with vehicle network interfaces
- Time of validity output for highly accurate coupling with an Inertial Navigation System (INS) further improves your resulting DVL aided INS position accuracy

The Tasman DVL is designed as a replacement for the Workhorse Navigator for ease of installation.

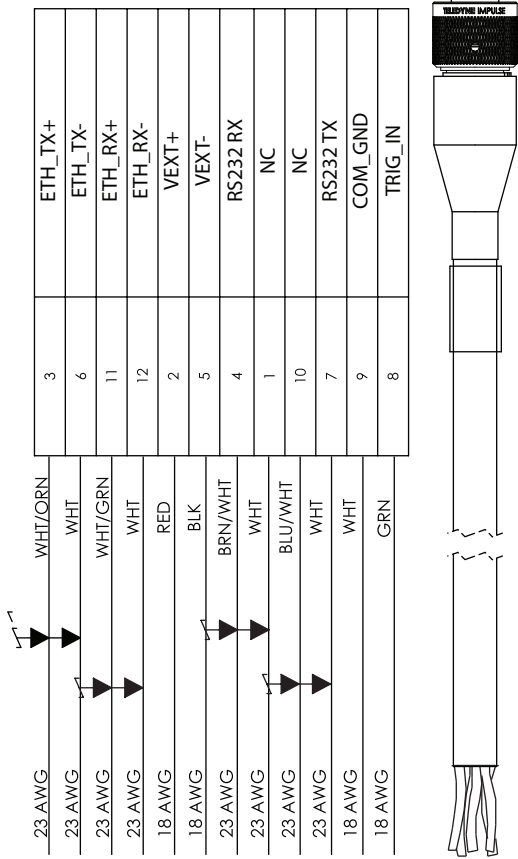
Measurements include:

- Bottom track velocity
- Altitude: 4 individual measurements
- Error velocity (data quality indicator)
- Acoustic echo intensity
- Water track velocity
- Current profiling (optional)
- Temperature

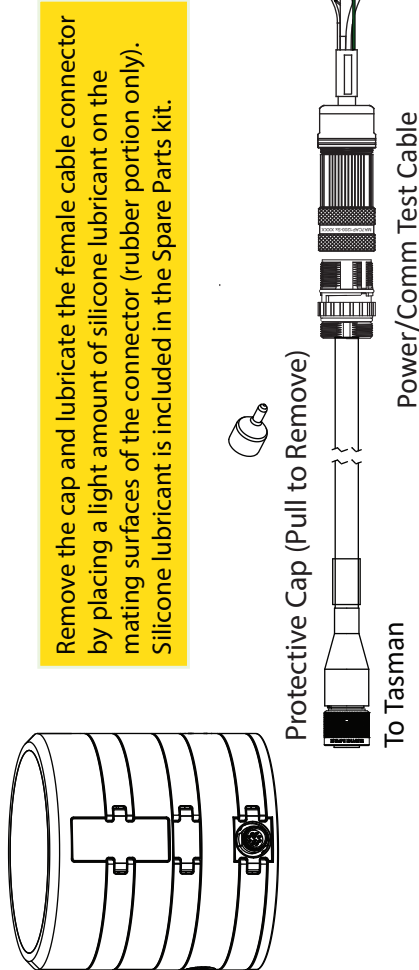
Step 3 Communication and Power Setup - Detailed Instructions

Step 3 A Wiring the Standard Power/Comm Pigtail Cable

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



Optional Power/Comm Test Cable



Remove the cap and lubricate the female cable connector by placing a light amount of silicone lubricant on the mating surfaces of the connector (rubber portion only). Silicone lubricant is included in the Spare Parts kit.

Step 3 B Connecting the Power/Comm Cable

1. Place the Tasman transducer face up on a soft surface.
2. Remove the Power/Comm protective cap and lubricate the female cable connector by placing a light amount of silicone lubricant on the mating surfaces of the connector (rubber portion only).
3. Push the cable straight onto the Power/COMM connector ensuring the key and pins are properly aligned. While keeping a slight inward pressure on the cable connector and ensuring that the connector is straight, thread the locking sleeve onto the receptacle to complete the connection.
4. Attach the Power/Comm cable to the computer's serial or Ethernet communication port.
5. Connect +12 to 36 VDC (24 VDC typical) power. The power supply should be able to source at least 2 Amps.

The optional Power/Comm Test Cable must be ordered separately.

Step 3 C Setting Up the Communications

To establish communications with the Pathfinder:

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** or **New Ethernet Connection**. The **command and control port can be Serial or Ethernet, but not both**.
4. Enter the Pathfinder's communication settings.

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



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

Enter the Port Number 1033

Select TCP



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

Tasman
Teledyne RD Instruments (c) 2019
All rights reserved.
Firmware Version: 74.xx
Current time is: 19/08/01,21:01:38.47
Break received, serial
>

7. Verify the LED on the Tasman is:

- Solid ON when no data is moving over the ports.
- Blinks twice per second when there is data on the serial port.
- Blink once per second when there is traffic on the Ethernet port.



Refer to the Integration Guide for further information.