Getting Started with the Self-Contained ExplorerDVL

Step 1

Verify all parts are present

The standard DVL includes:

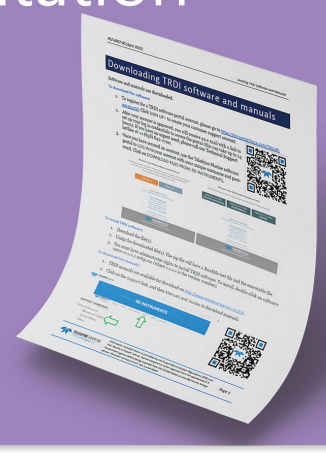
- Self-Contained ExplorerDVL
- Pigtail Power/Comm and Sensor Cables
- Shipping case
- Spare Parts Kit
- Software and Documentation download instructions
- Check packing slip for additional options

Step 2

Download the Software and Documentation

See Deployment Guide for details:

- Install TRDI Toolz software
- Install other included software as needed
- Download ExplorerDVL manuals



Step 3

Communication and Power Setup

See the reverse side of this guide for detailed instructions.

Step 4

Read the Integration Guide

Key Features:

- Phased array transducers deliver increased performance
- Piston array transducers deliver increased depth rating
- Compact design ideally suited for nextgeneration littoral platforms
- Self-contained or remote configuration options
- Flexible design facilitates easy sensor communication
- Proven bottom-tracking algorithms and performance
- Upgradable to include ADCP (Acoustic Doppler Current Profiling) capability

Applications:

- Autonomous Underwater Vehicles (AUV)
- Remotely Operated Vehicles (ROV)
- Unmanned Surface Vehicles (USV)
- Coastal Gliders
- Towed Vehicles
- Diver Consoles
- Submersibles

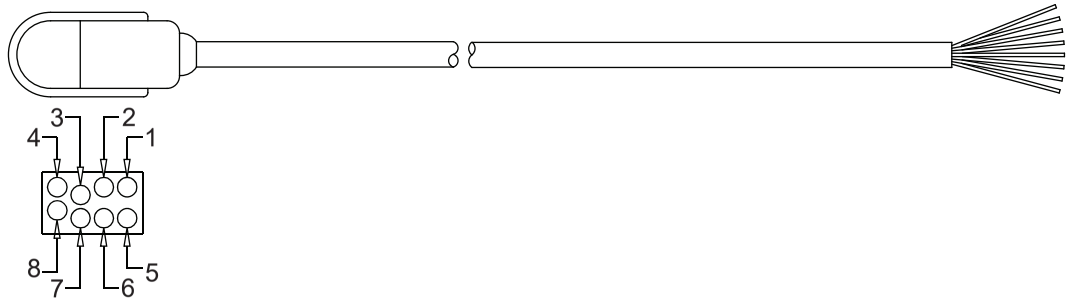
For export purposes, sensors are available in both licensefree and export-licensed long-term accuracy.

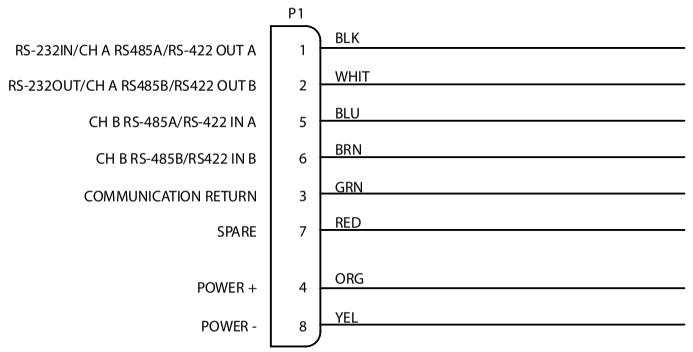
P/N 95B-6147-00
(February 2023)

Step 3 Communication and Power Setup - Detailed Instructions

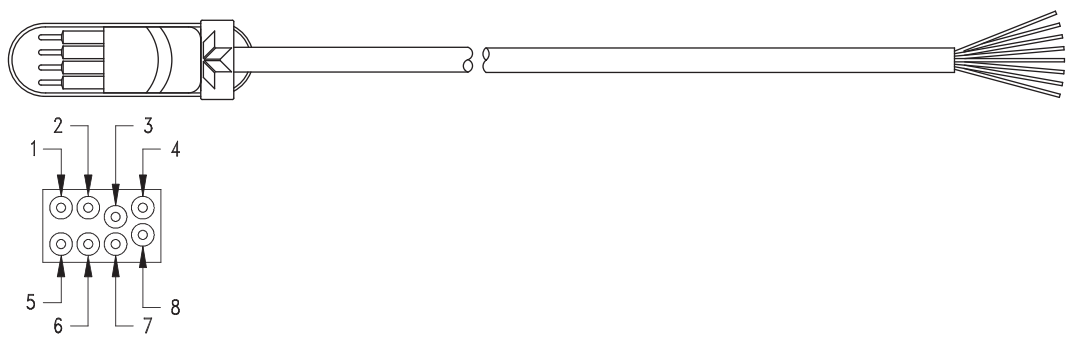
Step 3 A Wiring the Power/Comm and Sensor Pigtail Cables

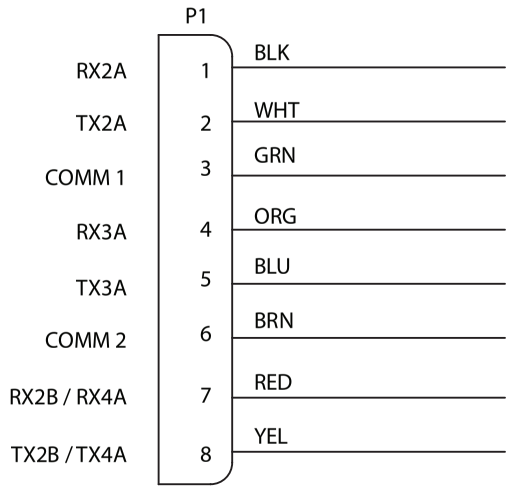
Wire the pigtail cable or use the optional Power/Comm Test Cable.





Self-Contained ExplorerDVL Power/Comm Cable P/N 737-3055





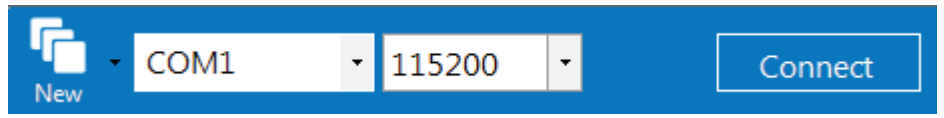
Self-Contained ExplorerDVL Sensor/COMMS P/N 73B-6037

Step 3 C Setting Up the Communications

To establish communications with the ExplorerDVL:

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. Enter the ExplorerDVL's communication settings.

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



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.

```
ExplorerDVL
Teledyne RD Instruments (c) 2015
All rights reserved.
Firmware Version: 57.01
>
```

Refer to the Integration Guide for further information.

Step 3 B Connecting the Power/Comm Cable

1. Place the ExplorerDVL on its transducer face on a soft surface.
2. Remove the Power/Comm protective cap and lubricate the connector. Use light amounts of silicone lubricant (such as 3MTM Silicone Lubricant (Dry Type) ID No: 62-4678-4930-3) on both the male pins and female socket to help seat the cable connectors. Wipe off excessive silicone spray from the metal portions of the pins. **Regular lubrication is required**: Apply dry type silicone lubricant prior to each connection.
3. Gently push the cable straight in toward the connector. Do not apply any upward force on the connector as it is being connected.
4. Roll the retaining strap/Cable Clip with O-Ring over the connector.
5. Connect +12 to 28 VDC power.