

VideoRay's Fiber Optic Tether for use with Mission Specialist Subsea Batteries provides superior mission range and data transmission while significantly decreasing hydrodynamic influence on the tether, resulting in easier piloting and tether management.

This Quick Guide covers basic connections and use; refer to the printed guide included with the tether for detailed instructions pertaining to installation, connections, and cleaning/maintenance.



Fiber Optic Tether System

1.5 km Fiber Optic Tether and Terminations

Topside FO Modem

Submersible FO Modem

Fiber Optic Patch Cables, 0.5m ST Type

Tool Kit

Fiber Optic Cleaning Kit



Optional Fiber Optic Tether Reel in watertight case



Fiber Optic Tether Guide

Ensure ST connectors/ports are clean and all subsea connections are lubricated

1. Feed the tether's subside termination block upward through the port aft frame opening of the Defender
2. Push the tether termination block into the mounting plate rearward and secure with the thumb screw
3. Remove caps from one patch cable and generously lubricate both ends with supplied fiber optic lubricant; take note of twist lock coupling and the locating sleeve of the ST Type connectors
4. Carefully align and connect one end of the patch cable to the Channel 1 port of the tether termination block
5. Carefully align and connect the opposite end of the patch cable to the submersible fiber optic modem's ST port on the starboard side
6. Route and secure any excess patch cable slack
7. Connect the submersible strain relief and test all angles to prove NO tension is on the tether
8. When using bagged or loose fiber optic tether:
 - A. Carefully align and connect the end of another patch cable to the Channel 1 port of the tether's topside termination block
 - B. Carefully align and connect the opposite end of the patch cable to the topside modem's ST port
 - C. Connect and secure the topside modem's Power and Ethernet cables to the console's AUX USB and AUX ETHERNET ports
 - D. Secure the topside termination block at the console and ensure there will be NO strain on the fiber optic patch cable connections
9. When using the Fiber Optic Tether Reel:
 - A. Connect the standard tether from the reel to the console's 8-pin whip
 - B. Rotate the red Power Mains clockwise to the on position to send power to the FO modem
10. Continue with standard connection, power, and function tasks

