



On-Line / Remote Training:

ESSENTIAL TECHNICAL & OPERATIONAL MULTIBEAM

TRAINING History of Echosounding and Multibeam

Basic Acoustic Theory

1. Sonar Theory and Terminology
2. Sound in water
 - a. Sound Velocity in water
 - b. Transmission Losses
 - i. Absorption
 - ii. Spreading Loss
 - iii. Other influences
 - c. Receive Beam Steering

R2Sonic Technical Training Plan

1. Major component overview
 - a. Sonar Interface Module
 - b. Receive Module
 - c. Projector
2. Installation
3. Theory of operation
4. In-depth operational overview of each component
 - a. Sonar Interface Module (SIM or VOX-IM)
 - i. SIM / VOX-IM connections
 - ii. SIM / VOX-IM features
 - b. Receive Module
 - i. Installation
 - ii. Deck test procedure
 - c. Projector
 - i. Installation
 - ii. Deck test procedure

R2Sonic Operation Training Plan

1. Installation of the Sonic 2023 GUI
2. Setting up network and sensor interfacing
3. Sonar operation through the Sonic 2023 GUI
 - a. Detail all menu items
 - b. In-Depth discussion of operational controls
 - i. Range
 - ii. Power
 - iii. Pulse Length

- iv. Gain
- 4. Using the GUI Display to set proper operating parameters
- 5. Discussion of TVG
 - a. How TVG works
 - b. Absorption characteristics
- 6. Use of the Saturation Monitor
- 7. Importance of sound velocity
 - i. At head
 - ii. Full profile
- 8. Firmware Update Procedure