

## Diving equipment Dive-Trak Pro, Diver navigation system



**DTI-300 Diver Transponder interrogator**



**ATT-400 Acoustic Target Transponder**

### Benefits

- Accurate to within One Meter
- Range of 750 to 1000 meters
- Built-in Electronic Compass
- Mark Targets Covertly
- Easy to operate

The Dive-Trak Pro is the next generation in diver marking and relocation equipment. Using the latest in underwater acoustic technology, the Dive-Trak Pro allows divers to mark targets under-water and relocate them up to 750 meters (2250ft) away.

While most underwater marking and relocation system use active acoustic technology to locate targets underwater, the Dive-Trak Pro uses a coded based system that provides range and bearing to the marked target. Using this approach, a diver can accurately relocate an underwater target within 1 meter (3ft) with a minimum amount of bottom time.

The Dive-Trak Pro consists of two components. The ATT-400 Acoustic Target Transponder, which is used to mark underwater targets, and the DTI-300 Diver Transponder Interrogator, which navigates the diver to marked location.

Marking a location is easy using the ATT-400 Acoustic Target Transponder. The ATT-400 is a small, self contained, acoustic

transponder that activates once it is placed in the water. Once the ATT-400 is deployed, it will remain covertly activated for up to 6 months while it waits to receive a coded interrogation signal from the DTI-300. The ATT-400 can be program to operate on eight (8) different channels, allowing the diver to mark and relocate eight different locations simultaneously.

The DTI-300 is a small battery operated transponder interrogator that is ergonomically designed to be operated by a diver. A color LCD display provides navigation data to the diver while sealed switches allow the diver access to control functions of the unit. Once an ATT-400 has been interrogated, the DTI-300 provides accurate range and bearing to the transponder. In addition, an internal electronic compass assists the diver in navigating the marked location.

The Dive-Trak Pro comes with a 12-month warranty and is supported by RJE International, Inc, whose reputation for product support, training and service is second to none.

## Diving equipment – Dive-Trak Pro, Diver navigation system

### DTI-300 Diver Transponder Interrogator

Designed for use by divers, the DTI-300 Diver Transponder Interrogator accurately navigates a diver to a target or location that has been marked with an ATT-400 Underwater Transponder to within 1 meter (3ft). Once activated, the DTI-267 sends a coded acoustic beam through the water up to 1000(3300ft) meters away. Once an ATT-400 receives this signal, it responds to the DTI-300 and, through this communication protocol, the DTI-300 provides range and bearing to the diver.

The DTI-300 is a multi-channel system that allows the diver to track up to eight different ATT-400's for up to 6 hours. Using sealed switches on the panel of the DTI-400, a diver can select the corresponding channel on the LCD display for the ATT-400 to be located.

The LCD displays range and bearing to the selected ATT-400, compass heading, verification of sending a transmit signal and receiving one for an ATT-400, and a low battery condition.

#### SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| • Transmit Frequency          | 26Khz   |
| • Receive Frequency           | 27,28,29,30,31,32,33, 34Khz                             |
| • Acoustic Output             | 180db   |
| • Acoustic Signal             | Coded   |
| • System Range                | 750 to 1000 meters                                      |
| • Control Switches            | Sealed Piezo-ceramic                                    |
| • Display                     | Color LCD   |
| • Battery                     | Rechargeable  |
| • Operational Life            | 8 hours   |
| • Depth Rating                | 100m (330 ft)   |
| • Housing                     | Delrin  |
| • Size                        | 30cm(L) x 18cm(W) x 9cm(H) 12in(L) x 7in(W) x 3.5in(H)  |
| • Weight                      | In Air: 2.9Kg (8 lbs.)<br>In Water: -0.185Kg (-0.5 Lbs) |
| • Electronic Compass Accuracy | <0.5° to 1.5° RMS                                       |
| • Repeatability               | ± 0.3°  |
| • Pitch and Roll Range        | ± 40°   |
| • Accuracy                    | ± 0.4° @Tilt< 20°<br>± 0.6° @Tilt≥ 20°                  |
| • Repeatability               | ± 0.2°  |
| • Resolution                  | ± 0.1°  |

*Specifications are subject to change without notice*

### DTI-300 Diver Transponder Interrogator

The ATT-400 is a small battery operated underwater acoustic that works with the DTI-300 to mark and relocate targets underwater in ranges of 750 meters(2250ft). Once deployed, a water switch activates the transponder where it can remain in the receive mode for up to 6 months waiting quietly for an interrogation signal from the DTI-300 Diver Transponder Interrogator. Once interrogated, the ATT-400 responds to the DTI-300 using eight different user programmable channels.

In addition, the ATT-400 can be program to operate as a acoustic pinger. Also, is positively buoyant and requires no additional flotation so deployment is easy. Constructed of non corrosive material, the ATT-400 can be deployed to depth of 100 meters.

#### SPECIFICATIONS

|                      |   |
|----------------------|---|
| • Receive Frequency  | 26Khz                                       |
| • Transmit Frequency | 27,28,29,30,31,32,33, 34Khz                 |
| • Acoustic Output    | 180db                                       |
| • Acoustic Signal    | Coded                                       |
| • System Range       | 750 meters                                  |
| • Activation         | Water Switch                                |
| • Battery            | 9 Volt Battery                              |
| • Operational Life   | 6 Months                                    |
| • Depth Rating       | 100m (330 ft)                               |
| • Housing            | Delrin                                      |
| • Size               | 21cm(L) X 6.4cm(D)<br>8.50in(L) X 2.50in(D) |
| • Weight In Air:     | 0.37Kg (1 lbs.)                             |
| • In Water:          | Positively Buoyant                          |

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