



RJE International, Inc.

YOUR SOURCE FOR DIVER NAVIGATION AND UNDERWATER RELOCATION EQUIPMENT

Operating Instructions for The Dive-Scan™ Personal Sonar

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600-10006

Thank you for having purchased the Dive-Scan Personal Sonar which represents the state-of-the-art technology in its field today. We are certain that it will provide you with many years of accurate readings. Please read the following instructions carefully.

Installing the Battery

The Dive-Scan requires (1) one 9-volt alkaline transistor battery, which is not included. Unscrew the battery compartment end cap (closest to the lanyard end or handle strap). Connect and insert a 9V alkaline battery. Check to insure O-ring is free of dirt or other matter. Install end cap and twist firmly.

The Dive-Scan has two end caps threaded onto the center section. The end cap, which is closest to the display has the sensor (transducer) which must be underwater and be pointed at the object or area to which you want to measure the distance.

The transducer-end of the Dive-Scan does not need to be taken off. It is recommended to check periodically and make sure that it has been fully tightened.

Operating the Dive-Scan

With the battery installed, and the end cap re-attached, slide the switch forward. By doing this the backlighting (night light) for the digital (LCD) display should come on and show three horizontal bars ("---").

The Dive-Scan is easy to operate. Insure that the front-end (closest to the switch) is submerged in water (unit will not work in the air), point the unit at the ocean bottom or an object and push the switch forward. After holding switch for a second, release and look at the display to read the distance. The Dive-Scan will hold your last reading for 10 seconds before automatically turning itself off.

To get a continuous reading or scan an area, keep holding down the switch and observe the display. The unit will continuously keep updating the display (once a second) until you release the switch. To get optimum performance and accuracy, make sure that you are pointing the sonar squarely at the object or area you want to measure the distance to. If the sonar signal hits the target at an angle, it will most likely result in an inaccurate reading.

Soft bottoms such as mud, silt, etc. may not adequately reflect the signal due to absorption. If this is the case you may not get a reading (display will show "---"). Take several measurements until you get a valid reading.

Measurements taken in restricted areas such as swimming pools and caves may result in display errors due to reflected signals. Take several measurements until most of the readings are the same.

The Dive-Scan is water-proof to 300 feet (91m) and floats. It can read through ice as long as the ice is clear (free from air bubbles, white ice). Clear away any snow and look for hard ice. Using water or biodegradable contact solution, make a small puddle on ice. Set the transducer end of unit into the puddle of solution and take a reading. Hold switch for 3 to 5 seconds to get valid reading.

Note The Dive-Scan does not display a distance reading (only showing “---“) when a reflected signal is out of range, too deep or shallow, or is too weak. If this occurs, take additional measurements until you get a numeric display. The Dive-Scan will only work in water with a minimum depth of 2 feet (Approx. 1 meter).

Maintenance

The Dive-Scan is very easy to maintain. After every dive or use, rinse the unit in fresh water and dry before storing it in a cool, dry place.

Always insure that the front-end of the unit is clean and free of grease, oil, or dirt. Clean with rubbing alcohol if necessary.

We recommend that you remove the battery if you don't plan to use the unit for an extended time, i.e. 2 to 3 weeks or more.

Note: Always handle the Dive-Scan with care and protect it from hard impacts. Do not drop unit, as this may result in damage.

Specifications

Range	2 to 200 ft. (1 to 60m)
Frequency	200 kHz
Depth Rating	500 ft. (152m)
Beam Angle	24°
Display	Backlit LCD
Power Source	9V Alkaline Transistor Battery
Battery Life	Approx. 500 Readings or 1 Hour Continuous
Dimensions	
Length	7.8 in. (19.8cm)
Diameter	1.65 in. (4.1cm)
Weight	7oz. (200 gr.)

Other great applications for your Dive-Scan:

Fishing	Measure the water depth
Ice Fishing	Measure the water depth through the ice
Canoeing	Measure the water depth

LIMITED WARRANTY

This Vexilar product is warranted against factory defects in material and workmanship for a period of 1 year from date of purchase. During the warranty period, RJE International, Inc. will repair or, at its option, replace at no cost to you for labor, materials, or return transportation provided the unit is returned, shipped prepaid to RJE International, Inc., 15375 Barranca Parkway, Ste. I-112, Irvine, CA 92618. This warranty does not apply if the product has been damaged by accident or misuse, or as a result of service or modification by other than the factory.

Except as otherwise expressly stated in the previous paragraph, the COMPANY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER WITH RESPECT TO THIS PRODUCT. Company shall not be liable for, and purchaser assumes responsibility for, all personal injury and property damage resulting from the handling, possession or use of this product by purchaser or others who obtained it through purchaser.

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