



SONOTRONICS

SUR-1 Submersible Ultrasonic Receiver



SONOTRONICS proudly introduces this new addition to available fisheries research technologies. This rugged, inexpensive, long life unit allows for detection of fish passage within its omnidirectional detection area. Strings, arrays, or individual receivers can be utilized depending on the resolution of detection desired in the study. The SUR-1 brings new features and options to the marketplace aiding in the continued development of fisheries research products.

The SUR-1 offers a variety of **NEW FEATURES**:

- Frequency scanning
- Ability to do manual tracking, land based automated station tracking, and SUR logging with the same transmitters
- Backwards compatibility with all Sonotronics transmitters
- Ability to determine presence of data in the SUR without pulling the receiver out of the water
- Ability to interface with a Sonotronics CUB-1 Cellular Uplink Buoy system

Features

- Lightweight, economical, easy to deploy
- Allows for detection and logging of the same transmitters used in manual tracking
- Able to detect Sonotronics past or present transmitters
- Scanning receiver allowing for transmitters on different frequencies to be logged, also allowing exclusive channels for specialty transmitters
- Transponding option allows researchers to determine the presence of data without pulling the receiver up
- 5 month or 10 month lithium battery life options
- Data download through a water proof connector on the end of the unit
- SUR-1 is also designed to interface with the CUB-1 cellular uplink buoy, allowing for real time cell phone communication or emails upon animal passage
- The SUR stamps its data with time and date using its onboard real time clock



CUB-1 buoy - Sends real time data to PC's and cell phones about fish detection by the SUR below!

Updated: 5/17/2005

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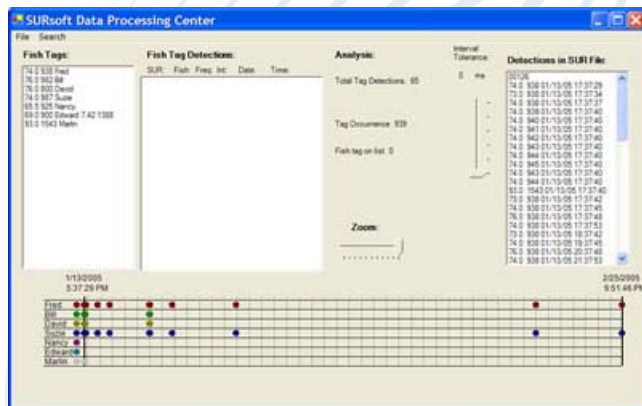
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Applications:

- Single SUR's can be deployed in bays, rivers, lakes, estuaries, coastal areas, waterways etc. in order to detect fish passage through the area
- Strings of SUR's can be deployed across wide environments in order to ensure detection through these areas
- Arrays of SUR's can be deployed in large areas in order to determine two-dimensional movement through these areas

Options

- RF Interface and networking—real time communication with many SUR's
- CUB-1 Interface - real time cell phone uplink, emails, and daily status to PC



SURsoft software is free software for communicating with SUR's, and is downloadable from our website. It also contains a data processing module which allows for first-look analysis of data from SUR's.



The figure above shows the physical difference between SUR's with the two D cell 10 month battery option and the standard SUR size.

Specifications:

Weight:	780g with single D cell option
Length:	33cm
Diameter:	6cm
Frequencies:	30 to 90 kHz
Autonomy:	5 and 10 month battery options available
Memory:	210,000 detections
Depth Rating:	200m recommended (tested to 290m)

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