



"...working together to make a difference in the world we share."

## New: SUR-3

### Submersible Ultrasonic Receiver



The SUR is a submersible ultrasonic receiver designed to scan multiple frequencies to detect and log to flash memory the presence and telemetry of an animal tagged with Sonotronics ultrasonic transmitters. The positive buoyancy of the SUR allows for deployments using only a single mushroom anchor in low current areas, and rugged enough to withstand depths in excess of 200m. The SUR-3 is a stand-alone device consisting of a battery system, micro-processor, **2Mb** of flash memory, real time clock, hydrophone, ultrasonic receiver, and wired connectivity for simplified high-speed downloads and configuration.

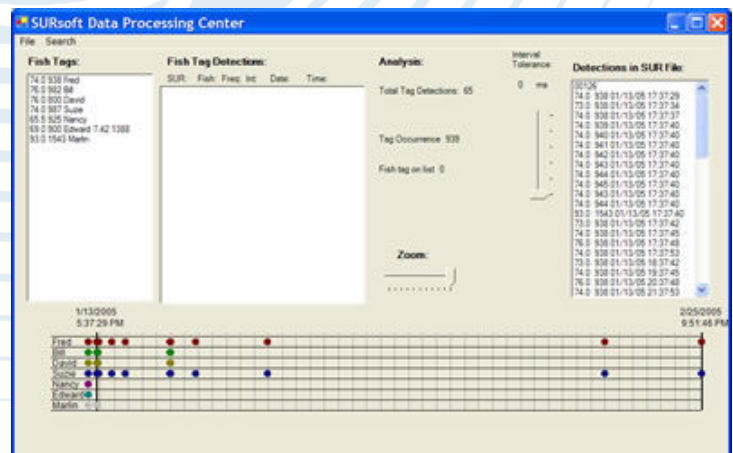


*R-code decoding and logging using algorithm under license from LOTEK WIRELESS*

#### Specifications

- Weight:** 950g, Positively Buoyant (w 2xBatteries)
- Sensitivity:** >35dB (S+N)/N with 10uV input
- Frequencies:** 30kHz—150kHz (scans 15 selected frequencies)
- Length:** 37cm from transducer to end cap
- Diameter:** 60mm
- Memory:** 2 Megabyte (> 200000 detections) (4 Megabyte optional)
- Lifetime:** 7-12 months (2 batteries)
- Battery:** Tadiran TL5930
- Depth Rating:** 200m recommended, 270m Tested

The SUR includes Windows based software for data analysis and reporting, allowing post processing of information gathered from transmitters on up to 15 different frequencies, including depth and temperature telemetry.



Updated: 6/18/2010