Cetacean Research Technology

Cetacean Research Technology (CRT) specializes in providing hydrophones and underwater acoustic instrumentation tailored for the applications of scientists, engineers, recording artists, and recreational enthusiasts. Since 1994, CRT’s owner, Joseph Olson, has worked with other scientists and engineers, and listened closely to customer feedback to fine-tune his affordable line of hydrophones. These hand-crafted hydrophones and associated products are used by academic and governmental institutions, corporations, and individuals in over 65 countries, spanning every continent and ocean in the world.

"Animal communication, especially among cetaceans, has always fascinated me," says Olson, the founder and former president of the Puget Sound Chapter of the American Cetacean Society. "I developed my hydrophones to be easy to operate, and as affordable as possible, while still providing optimal frequency and sensitivity characteristics that exceed those of similarly marketed hydrophones."

As a physicist, Olson has worked with technical instrumentation and underwater acoustics for over 35 years. His clientele ranges from well known organizations such as MIT, Scripps Institution of Oceanography and National Geographic Television, to individual researchers, recreational whale watchers, recording artists, and Academy Award-winning film teams. CRT is committed to providing the highest quality instrumentation along with outstanding technical and customer support.
**HYDROPHONES**

*Cetacean Research™* hydrophones are manufactured using superior transducers encapsulated in a durable polyurethane. Cetacean Research Technology also carries Sensor Technology hydrophones.

**Basic Hydrophones** are general purpose hydrophones with frequency responses of twice human hearing range. They are ideal for kayaking, recreation, eco-art, whale watching, and research.

**Research Hydrophones** include low noise, broad bandwidth models for detecting sounds from infrasonic to ultrasonic frequencies. These are ideal for work with species ranging from blue whales to dolphins and porpoises, and are the best choice for making professional recordings. Other models are designed for detection of loud signals, such as those from pile driving, air guns, high-power sonar, or underwater explosions.

**Hydrophone Systems**

**Underwater Noise Measurement Systems** include portable recorders and special software designed specifically for measuring and recording underwater sound levels. PC-based systems provide real-time sound pressure level monitoring, as well as recording for post processing analyses. All systems include calibrated *Cetacean Research™* hydrophones.

**Underwater Recording Systems** include a hydrophone and a digital recorder. Autonomous, Computer-based, and Portable recording systems are available. The small µRUDAR-mk2 is our most popular, easy-to-use, autonomous underwater recording system.

**Whale Watching Recording Systems** are portable and easy-to-use hydrophone systems that include a basic hydrophone, recorder, and speaker.

**PRO AUDIO ACCESSORIES**

*Cetacean Research Technology* carries pro audio and other accessories for our line of hydrophones, as well as for our signal analysis tools.

- ART
- Data Translation
- Earthworks
- Grace Digital
- Reson
- Rolls
- Tascam
- Zoom

- Digital Memory Recorders
- Audio Preamplifiers
- Broad Bandwidth Preamplifiers
- USB Audio Interfaces
- Portable Battery Powered Speakers
- Waterproof Cases

**SIGNAL ANALYSIS TOOLS**

*Cetacean Research Technology* carries Spectral analysis software and hardware manufactured by Pioneer Hill Software.

**SpectraPLUS — Spectral Analysis Software** for Bioacoustics, Underwater Sound, and General Noise Level monitoring.

**SpectraDAQ-200 Signal Interface Hardware** — Professional alternative to your computer sound card that allows SpectraPLUS signal analysis software to function at its full potential.

Autonomous, remote-access, mobile data recorders.

**SUCTION CUPS**

*Cetacean Research Technology* manufacturers both standard and custom suction cups using a FDA food-contact grade silicone.

- Basic Cups
- Electrode Cups
- Saddle Cups

**CONSULTING**

*Cetacean Research Technology* (CRT) offers research and engineering support services.

- Underwater Acoustics and Noise Analysis
- Audio Systems Integration
- Custom System Design
- Marine Systems Design

**CRT ADVANTAGES**

- Broadband, Low-Noise Hydrophones
- Complete Acquisition & Analysis Systems
- Easy-to-Use Noise Monitoring Systems
- Domestic & International Support

**PARTIAL CUSTOMER LIST**

- Center for Bioacoustics, University of Pavia, Italy
- National Geographic Television
- The Whale Museum, Friday Harbor, WA
- Scripps Institution of Oceanography
- Wildlife Institute of India
- United States Navy
- Massachusetts Institute of Technology
- National Oceanographic and Atmospheric Admin.
- Fisheries and Oceans Canada
- National Institute of Ocean Technology, India
- Whale watching operations worldwide

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