

Serrano

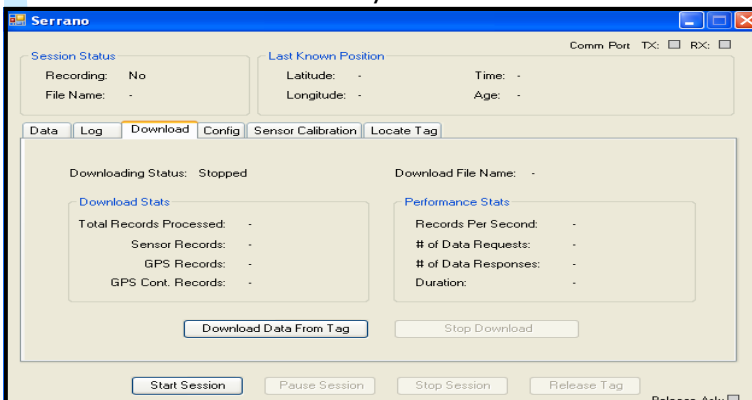
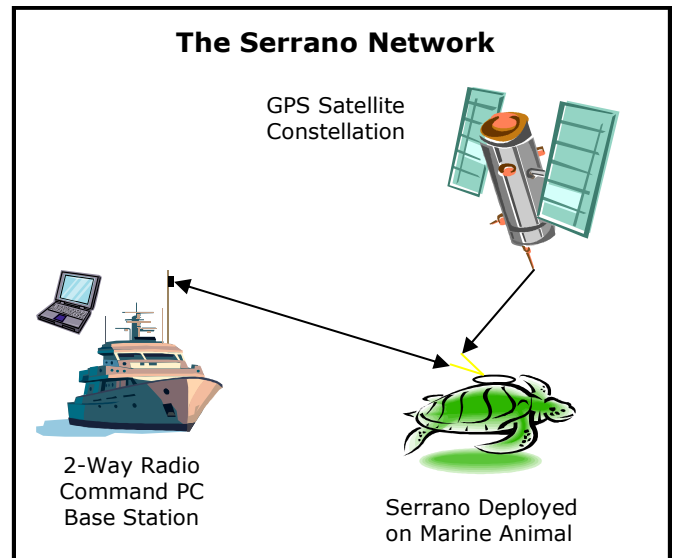
Marine Animal Telemetry Video Recording TDR

Serrano is a digital video recorder with an integrated Temperature and Depth Recorder (TDR) suitable for attachment to large marine animals such as Leatherback Turtles. Serrano is intended for short, intensive behavioral studies. Serrano incorporates a GPS receiver and a 900MHz spread spectrum two-way radio transceiver for command and control functionality within line of sight from an at-sea base station. Serrano also makes use of a radio-controlled function that automatically releases the tag from it's subject upon receiving the remote radio command. The very low light CCD camera sensor provides Serrano with the capability to overcome poor light level conditions.



Features

- Rugged, corrosion-resistant Delrin housing
- High resolution temperature and depth recorder with internal data logging (2MB)
- 900MHz spread spectrum radio transceiver with GPS for real-time sensor data telemetry
- Non-intrusive proven suction cup attachment
- Release-on-command radio controlled floodable suction cup
- >4 hours of colour video recording time at 30 fps
- Video recorded on removable secure digital miniature SanDisk™ memory card (2GB)
- Self-righting, horizontal buoyancy
- Available without Video as radio linked GPS/TDR
- Reload with new battery in seconds



Serrano PC Console

Serrano Specifications

Mechanical

Size: 9.1" (231mm) long X 3.25" (82.5mm) high
Weight:
Buoyancy:
Material:
Depth Rating: 200m
Attachment: Suction cup
Release Mechanism: Radio-controlled valve

Electrical

Battery Supply: (1) Saft® Lithium D cell
Lifetime: 8 Hours

Video

Sensor Type: CCD
Format: AVI
Frames per Second: 30
Memory Card: SanDisk® 2GB
Recording Time: 4 hours—typical
Lens: Sapphire crystal
Light Sensitivity: 0.03 LUX

TDR

Temperature Sensor: (GE) 0.1 degree resolution
Pressure Sensor: (Keller) 0.1m resolution

Radio Telemetry Transceiver

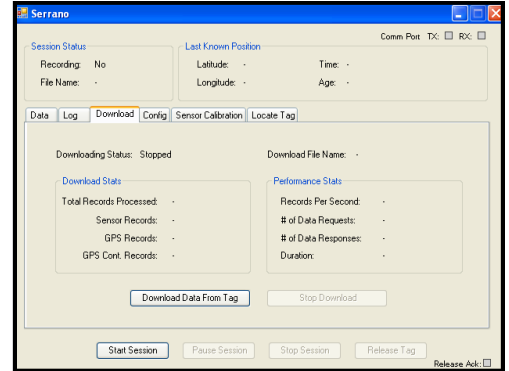
Type: Frequency Hopping Spread Spectrum
Manufacturer: Aerocomm
Power: 1 watt
Frequency: 900MHz
Base Station:
Antenna: Omni-directional

GPS

Type: Encore
Channels: 12



GE Industrial Systems



Serrano Base Station Software

Accessories



Lithium D
Cell Battery



2GB Memory
Card



Shipping
Case



Base Station



900MHz
Directional
Antenna



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