

SECTOR SCANNING SONAR



APPLICATION: Sector scanning sonar are commonly used on submersibles and ROV systems for a variety of tasks such as search and recovery, obstacle avoidance, tracking moving objects, and inspection. The sonar uses high frequency sound to acoustically image objects underwater, often at a much greater range than can be seen by a video camera. The sonar can operate and display data in variable sector (up to a complete circle), polar, linear and profiling mode.

DESCRIPTION: The Imagenex 881 sector scanning sonar is a digital unit, controlled by computer, and requires four wires as a stand alone unit to supply power and telemetry or two wires for telemetry if power can be supplied at the vehicle. The sonar has a minimum range of 5 meters and a maximum range of 200 meters with metric or standard units selectable by computer. Sector size, sweep speed, resolution, and sweep direction are also controlled by computer. Images from the sonar can be digitally stored as a still or as portions (clips) of an entire recording. Single or dual cursors are available for measuring distance or object size. The sonar head is 3.5" in diameter by 13.4" in length and weighs 3.3 lbs. in water.