

Imagenex 881A Digital Multi-Frequency Imaging Sonar

The 881A is programmable multi-frequency digital imaging sonar. When interfaced with the ASL custom data logger, the unit can be deployed in self-contained mode for months at a time.

Imagenex 881A scanning sonar head

- Transducer: imaging type, fluid compensated
- Frequency is programmable (280 to 1000 kHz in 5 kHz steps)
- Beamwidth: 310 kHz 4°x40°; 675 kHz 1.8° x 20°; 1 MHz 0.9° x 10°
- Variable range/gain settings allow it to scan from 5 to 255 meters distance
- Range/resolution: 1-4m/2mm; >5m/10mm
- Sector, polar and sidescan modes

DIMENSIONS (for both depth ratings)	79.4 mm (3.125") diameter x 182 mm (7.125")
WEIGHT: In Air	1000 m unit: 1.5 kg (3.3 lbs) 3000 m unit: 2 kg (4.4 lbs)
In Water	1000 m unit: 0.6 kg (1.3 lbs) 3000 m unit: 1.1 kg (2.4 lbs)
MATERIALS	1000 m unit: 6061-T6 Aluminum & Polyurethane 3000 m unit: Titanium, Polyurethane & 300 series stainless steel
FINISH	Hard Anodize



ASL DataLogger

- provides the power and control of the head to request scans at predetermined intervals and records the images as 360°, or sector, scans in files on Compact FLASH removable media
- scans are stored in the .81A format for direct playback using the Imagenex supplied software Win881a.exe as if they were recorded by the real-time software
- advanced sampling capability including burst recording of images, with multiple range/frequency settings
- Compact FLASH memory card sizes up to 1 GB in size
- large capacity alkaline battery pack allows for extended deployment
 - for example, 132 days with a step size of 0.9°, 8 data bits, and 1 scan every hour. If a burst of 3 scans every hour was desired, then the deployment would be limited to 90 days by the storage capacity
- anodized aluminum pressure case; 6.625 inches by 37.78 inches long