# IMAGENEX MODEL 881A NARROW BEAM DIGITAL IMAGING SONAR

## APPLICATIONS:

- ROV, AUV, & UUV
- Offshore Oil & Gas
- Sunken Timber Recovery
- Diving Support
- Surveying
- Search & Recovery
- Inspection
- Underwater Archaeology
- Scientific Research

## FEATURES:

- Serial Communications
- Programmable
- High performance
- Lower cost
- Low power
- Simple set-up and installation
- Digital telemetry
- Full scale range from 1 m to 100 m
- Compact size
- Communication format available to user



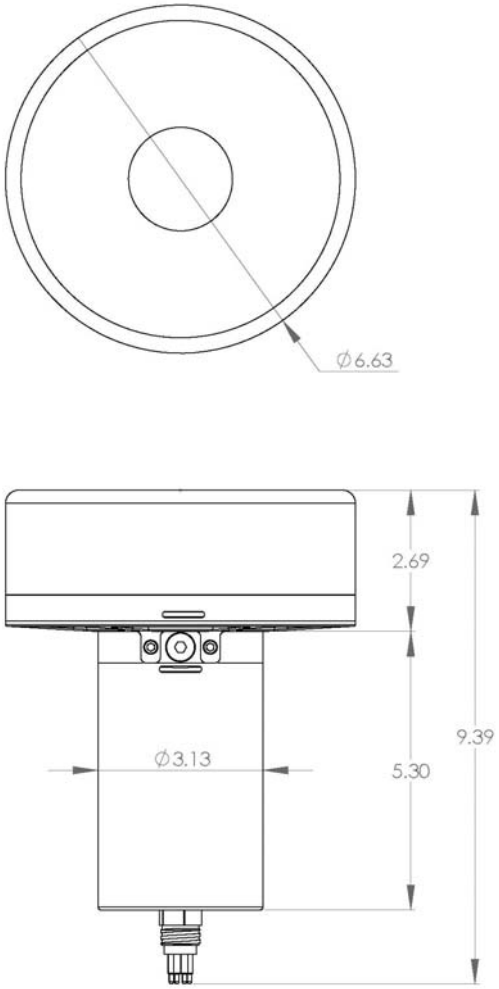
Using Serial communications, this all-in-one, high performance digital imaging sonar can exceed 35 shots per second on the 1 m range at a 2 mm range resolution, producing near-photographic image quality.

The 881A can operate with customized configurations or revert to default settings to match appropriate operating range scales.

In addition to the benefits of low power, a simple set-up and installation procedure make this powerful sonar an ideal tool for remotely operated platforms ranging from large work ROV's to small inspection vehicles, as well as AUV and UUV applications.

| HARDWARE SPECIFICATIONS: | |
|---|---|
| **FREQUENCY** | 675 kHz |
| **TRANSDUCER** | Imaging type, fluid compensated |
| **TRANSDUCER BEAM WIDTH** | 0.75° x 20° |
| **RANGE RESOLUTION** | 1 m – 4 m: 2 mm (0.08")<br>5 m & up: 10 mm (0.4") |
| **MIN. DETECTABLE RANGE** | 150 mm (6") |
| **MAX. OPERATING DEPTH** | 1000 m |
| **MAX. CABLE LENGTH** | 1000 m on typical twisted shielded pair (RS-485) |
| **INTERFACE** | RS-485 serial interface @ 115.2 kbps (or optional RS-232) |
| **CONNECTOR** | End mounted, four conductor, wet mateable<br>(Subconn MCBH4M-SS) |
| **POWER SUPPLY** | 20 – 36 VDC at less than 5 Watts |
| **DIMENSIONS** | See drawing p. 3 |
| **WEIGHT: In Air**<br><br>**In Water** | ~ 2.6 kg (6 lbs)<br><br>~ 0.9 kg (1.9 lbs) |
| **MATERIALS** | 6061-T6 Aluminum & Polyurethane |
| **FINISH** | Hard Anodize |

| SOFTWARE SPECIFICATIONS: | **Win881A.exe, Win881AL.exe** |
|---|---|
| **WINDOWS™ OPERATING SYSTEM** | Windows™ 95, 98, Me, NT, 2000, XP, Vista, 7 |
| **MODES** | Sector, Polar and Side Scan |
| **RANGE SCALES** | 1 m, 2 m, 3 m, 4 m, 5 m, 10 m, 20 m, 30 m, 40 m,<br>50 m, 60 m, 80 m, 100 m |
| **TRAIN ANGLES** | Continuous rotation, 3° increments |
| **SECTOR SIZE:**<br>**SECTOR MODE**<br>**POLAR MODE** | <br>0° – 180°, 3° increments<br>0° – 357°, 3° increments, or Continuous rotation |
| **STEP SIZES** | Slow (0.3°), Medium (0.6°), Fast (0.9°), Faster (1.2°),<br>Fastest (2.4°) |
| **GRID TYPES** | Polar and rectangular |
| **FILE FORMAT** | (filename).81a |
| **RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:** | 100 MHz Pentium<br>16 MB RAM<br>1 GB Hard Disk<br>800 x 600 x 256 colour graphics |






| ORDERING INFORMATION: | | |
|---|---|---|
| **1000 m UNIT** | Standard | 881-000-405 |