
IMAGENEX MODEL 881L DIGITAL MULTI-FREQUENCY PROFILING SONAR

APPLICATIONS:

- Profiling
- ROV, AUV & UUV
- Offshore Oil & Gas
- Surveying
- Dam Face Inspection
- Pipeline Inspection
- Underwater Archaeology
- Scientific Research

FEATURES:

- **Ethernet**
- Programmable
- Multi-frequency
- 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 Ethernet communications, this all-in-one, high performance digital profiling sonar can exceed 100 shots per second on the 1 m range at a 2 mm range resolution.

The 881L is a multi-frequency system that can operate with customized

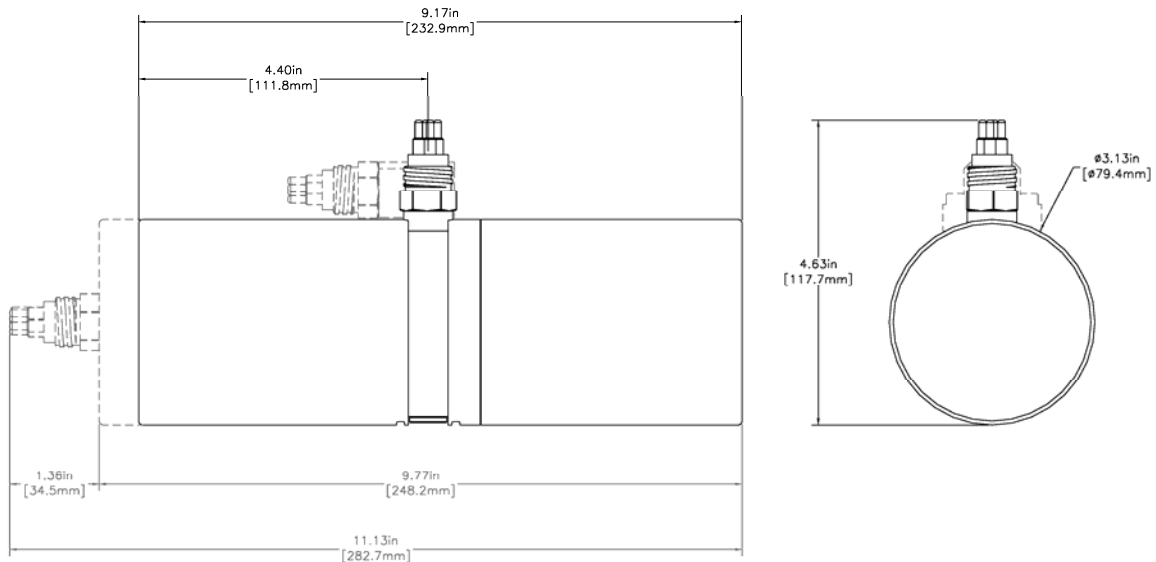
configurations or revert to default settings to match appropriate operating range scales.

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 -Other frequencies can be selected through programmable software configurations (Tunable from 600 kHz to 1 MHz in 5 kHz steps) |
| TRANSDUCER | Profiling type, fluid compensated |
| TRANSDUCER BEAM WIDTH | 600 kHz: 2.4° 675 kHz: 2.1° 1 MHz: 1.4° |
| RANGE RESOLUTION | 1 m – 4 m: 2 mm (0.08") 5 m & up: 10 mm (0.4") |
| MIN. DETECTABLE RANGE | 150 mm (6") |
| MAX. OPERATING DEPTH | 1000 m and 3000m available |
| MAX. CABLE LENGTH | Standard: 100 m on CAT5e Cable length may be increased up to ~9000 m using an Ethernet extender. Please enquire for more information. |
| INTERFACE | Standard: 10 Mbps Ethernet (10 BASE-T) using TCP/IP Bit rate may vary if an Ethernet extender is in use. |
| CONNECTOR | Side mounted, eight conductor, wet mateable (Subconn MCBH8M-AS or MCBH8M-Ti) Optional right angle or end mount connector |
| POWER SUPPLY | 20 – 32 VDC at less than 5 Watts |
| DIMENSIONS (for both depth ratings) | 79.4 mm (3.125") diameter x 234mm (9.2") length |
| WEIGHT: In Air | 1000 m unit: 1.8 kg (4 lbs) 3000 m unit: 2.2 kg (4.8 lbs) |
| In Water | 1000 m unit: 0.6 kg (1.3 lbs) 3000 m unit: 1 kg (2.2 lbs) |
| MATERIALS | 1000 m unit: 6061-T6 Aluminum & Polyurethane 3000 m unit: Titanium & Polyurethane |
| FINISH | Hard Anodize |

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|---|---|
| SOFTWARE SPECIFICATIONS: | Win881L.exe, Win881AL.exe |
| WINDOWS™ OPERATING SYSTEM | Windows™ XP, Vista, 7, 8, 10 |
| MODES | Side Scan, Polar, and Sector |
| RANGE SCALES | 1 m, 2 m, 3 m, 4 m, 5 m, 10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 80 m, 100 m |
| TRAIN ANGLES | Continuous rotation, 3° increments |
| SECTOR SIZE: | |
| SECTOR MODE | 0° – 180°, 3° increments |
| POLAR MODE | 0° – 357°, 3° increments, or Continuous rotation |
| STEP SIZES | Slow (0.3°), Medium (0.6°), Fast (0.9°), Faster (1.2°), Fastest (2.4°) |
| GRID TYPES | Polar and rectangular |
| FILE FORMAT | (filename).81L |
| RECOMMENDED MINIMUM COMPUTER REQUIREMENTS: | 100 MHz Pentium 16 MB RAM 1 GB Hard Disk 800 x 600 x 256 colour graphics |



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|------------------------------|----------|-------------|
| ORDERING INFORMATION: | | |
| 1000 m UNIT | Standard | 881-000-520 |
| 3000 m UNIT | Standard | 881-000-521 |
| End mount connector | Option | -009 |
| Right angle connector | Option | -010 |
| IP Address* | Option | -020 |

*Note: Standard IP Address is 192.168.0.5
A different IP Address may be specified upon ordering.

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