



## IMAGENEX MODEL 881L DIGITAL MULTI-FREQUENCY IMAGING SONAR

### APPLICATIONS:

- ROV, AUV, & UUV
- Offshore Oil & Gas
- Sunken Timber Recovery
- Diving Support
- Surveying
- Search & Recovery
- 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 200 m
- Compact size
- Communication format available to user

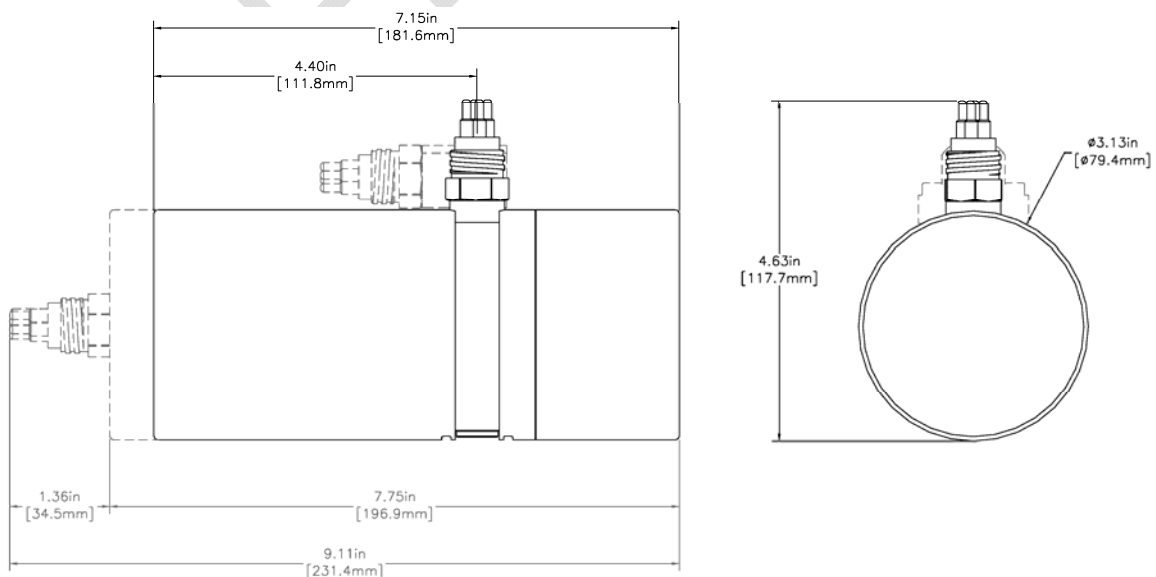
Using Ethernet communications, this all-in-one, high performance digital imaging sonar can exceed 100 shots per second on the 1 m range at a 2 mm range resolution, producing near-photographic image quality.

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.



| <b>HARDWARE SPECIFICATIONS:</b>     |   |
|-------------------------------------|---|
| <b>FREQUENCY</b>                    | 310 kHz, 675 kHz, or 1 MHz (standard default settings)<br>-Other frequencies can be selected through programmable software configurations<br>(Tunable from 280 kHz to 1.1 MHz in 5 kHz steps) |
| <b>TRANSDUCER</b>                   | Imaging type, fluid compensated   |
| <b>TRANSDUCER BEAM WIDTH</b>        | 310 kHz: 4° x 40°<br>675 kHz: 1.8° x 20°<br>1 MHz: 0.9° x 10°   |
| <b>RANGE RESOLUTION</b>             | 1 m – 4 m: 2 mm (0.08")<br>5 m & up: 10 mm (0.4")   |
| <b>MIN. DETECTABLE RANGE</b>        | 150 mm (6")   |
| <b>MAX. OPERATING DEPTH</b>         | 1000 m and<br>3000 m available  |
| <b>MAX. CABLE LENGTH</b>            | Standard: 100 m on CAT5e<br>Cable length may be increased up to ~9000 m using an Ethernet extender. Please enquire for more information.  |
| <b>INTERFACE</b>                    | Standard: 10 Mbps Ethernet (10 BASE-T) using TCP/IP<br>Bit rate may vary if an Ethernet extender is in use.   |
| <b>CONNECTOR</b>                    | Side mounted, eight conductor, wet mateable<br>(Subconn MCBH8M-AS or MCBH8M-Ti)<br>Optional right angle or end mount connector  |
| <b>POWER SUPPLY</b>                 | 20 – 32 VDC at less than 5 Watts  |
| <b>DIMENSIONS (for both depths)</b> | 79.4 mm (3.125") diameter x 182 mm (7.125") length  |
| <b>WEIGHT: In Air</b>               | 1000 m unit: 1.5 kg (3.3 lbs)<br>3000 m unit: 2 kg (4.4 lbs)  |
| <b>In Water</b>                     | 1000 m unit: 0.6 kg (1.3 lbs)<br>3000 m unit: 1.1 kg (2.4 lbs)  |
| <b>MATERIALS</b>                    | 1000 m unit: 6061-T6 Aluminum & Polyurethane<br>3000 m unit: Titanium & Polyurethane  |
| <b>FINISH</b>                       | Hard Anodize  |



|   |  |
|---|--|
| <b>SOFTWARE SPECIFICATIONS:</b>                   | <b>Win881L.exe, Win881AL.exe</b>   |
| <b>WINDOWS™ OPERATING SYSTEM</b>                  | Windows™ XP, Vista, 7, 8, 10   |
| <b>MODES</b>                                      | Sector, Polar and Side Scan  |
| <b>RANGE SCALES</b>                               | 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, 150 m, 200 m |
| <b>TRAIN ANGLES</b>                               | Continuous rotation, 3° increments   |
| <b>SECTOR SIZE:</b>                               |  |
| <b>SECTOR MODE</b>                                | 0° – 180°, 3° increments   |
| <b>POLAR MODE</b>                                 | 0° – 357°, 3° increments, or Continuous rotation                                       |
| <b>STEP SIZES</b>                                 | Slow (0.3°), Medium (0.6°), Fast (0.9°), Faster (1.2°), Fastest (2.4°)                 |
| <b>GRID TYPES</b>                                 | Polar and rectangular  |
| <b>FILE FORMAT</b>                                | (filename).81L   |
| <b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b> | 100 MHz Pentium<br>16 MB RAM<br>1 GB Hard Disk<br>800 x 600 x 256 colour graphics      |

|                              |          |             |
|------------------------------|----------|-------------|
| <b>ORDERING INFORMATION:</b> |          |             |
| <b>1000 m UNIT</b>           | Standard | 881-000-500 |
| <b>3000 m UNIT</b>           | Standard | 881-000-501 |
| 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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