



## 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

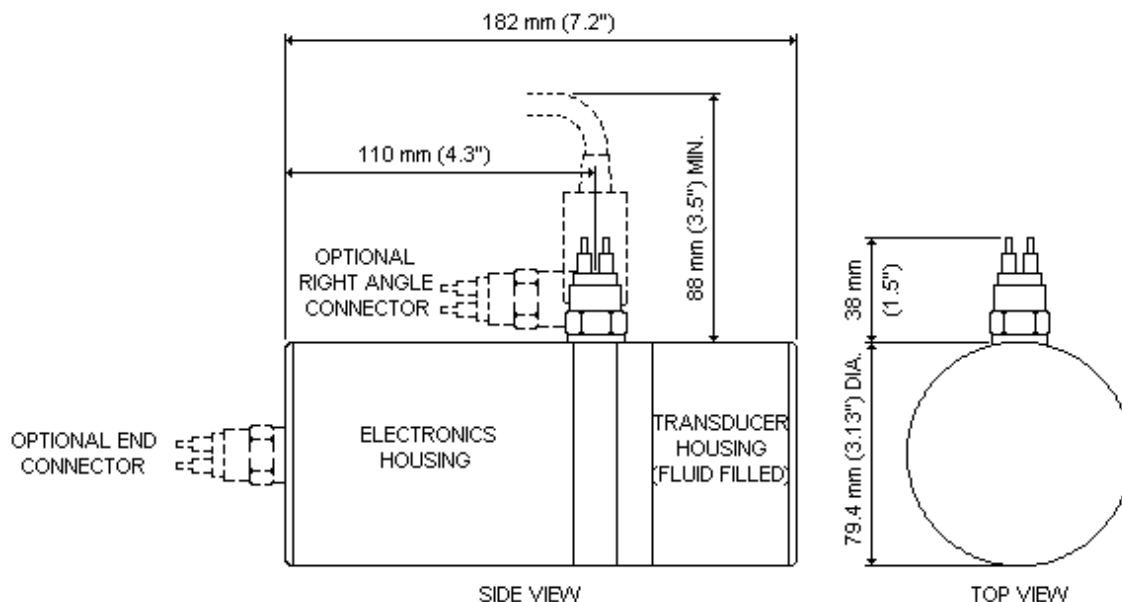
Using Ethernet communications, this all-in-one, high performance digital imaging sonar can exceed 100 shots per second on the 1 m range at a 2 mm range resolution, producing near-photographic image quality.

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) -Other frequencies can be selected through programmable software configurations (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° 675 kHz: 1.8° x 20° 1 MHz: 0.9° x 10°
<b>RANGE RESOLUTION</b>	1 m – 4 m: 2 mm (0.08") 5 m & up: 10 mm (0.4")
<b>MIN. DETECTABLE RANGE</b>	150 mm (6")
<b>MAX. OPERATING DEPTH</b>	1000 m and 3000 m available
<b>MAX. CABLE LENGTH</b>	Standard: 100 m on CAT5e 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 Bit rate may vary if an Ethernet extender is in use.
<b>CONNECTOR</b>	Side mounted, eight conductor, wet mateable (Subconn MCBH-8M-SS) 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) 3000 m unit: 2 kg (4.4 lbs)
<b>In Water</b>	1000 m unit: 0.6 kg (1.3 lbs) 3000 m unit: 1.1 kg (2.4 lbs)
<b>MATERIALS</b>	1000 m unit: 6061-T6 Aluminum & Polyurethane 3000 m unit: Titanium, Polyurethane & 300 series stainless steel
<b>FINISH</b>	Hard Anodize



<b>SOFTWARE SPECIFICATIONS:</b>	<b>Win881L.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ 95, 98, Me, NT, 2000, XP
<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 16 MB RAM 1 GB Hard Disk 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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