



IMAGENEX MODEL 881A DIGITAL MULTI-FREQUENCY PROFILING SONAR

APPLICATIONS:

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

FEATURES:

- Programmable
- Multi-frequency
- High performance
- Lower cost
- Low power
- Simple set-up and installation
- Digital telemetry
- 1 to 100 m operation (full scale)
- Compact size
- Communication format available to user

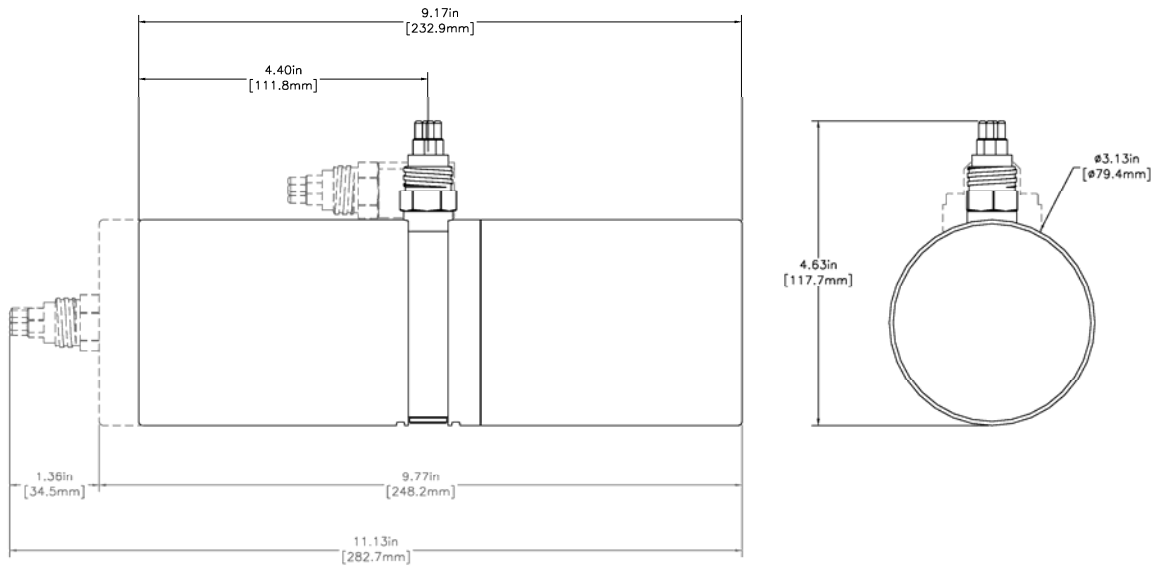
Now with Multi-frequency Sonar, operators can fine-tune their profiling range resolution. The Model 881A Profiling Sonar Head is a programmable



multi-frequency digital scanning sonar that you can operate using default settings or customize the configurations for your own situation. High performance, lower cost, low power and simple set-up and installation, make this sonar perfect for all profiling 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	1000 m on typical twisted shielded pair (RS-485)
INTERFACE	RS-485 serial interface @ 115.2 kbps (or optional RS-232)
CONNECTOR	Side mounted, four conductor, wet mateable (Subconn MCBH4M-AS) Optional right angle or end mount connector
POWER SUPPLY	20 – 36 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 & 300 series stainless steel
FINISH	Hard Anodize

SOFTWARE SPECIFICATIONS:	Win881A.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 POLAR MODE	0° – 180°, 3° increments 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).81a
RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:	100 MHz Pentium 16 MB RAM 1 GB Hard Disk 800 x 600 x 256 colour graphics



ORDERING INFORMATION:		
1000 m UNIT	Standard	881-000-420
3000 m UNIT	Standard	881-000-421
RS-232	Option	-006
End mount connector	Option	-009
Right angle connector	Option	-010
Interface source code in "C" (TEST881A.C)	Option	-018

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