

## 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

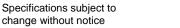
## FEATURES:

- 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.



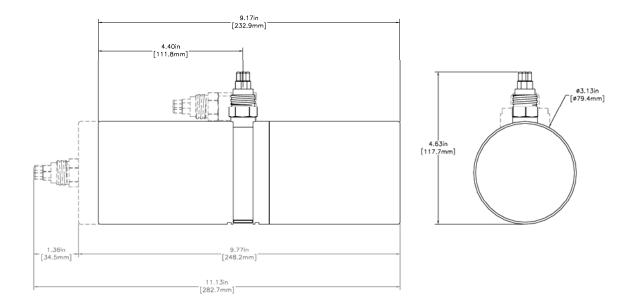


www.imagenex.com

HARDWARE			
SPECIFICATIONS:			
FREQUENCY	675 kHz		
TREQUENCI	-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°		
RANGE RESOLUTION	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	79.4 mm (3.125") diameter x		
(for both depth ratings)	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 Mater	1000  m units 0.0 km (1.2 km)		
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	Win881A.exe	
SPECIFICATIONS:		
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).81a	
RECOMMENDED	100 MHz Pentium	
MINIMUM COMPUTER	16 MB RAM	
REQUIREMENTS:	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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