

## **IMAGENEX MODEL 881A-GS 10000 m GYRO STABILIZED MULTI-FREQUENCY IMAGING SONAR**

### **APPLICATIONS:**

- ROV, AUV, & UUV
- Manned Submersibles
- Search & Recovery
- Borehole/cave work
- Drop sonar
- Scientific Research

### **FEATURES:**

- Serial Communications
- Programmable (format available)
- Gyro stabilized transducer steering
- Simple set-up and installation
- Full scale range from 1 m to 200 m
- Orientation module
- CHIRP Technology

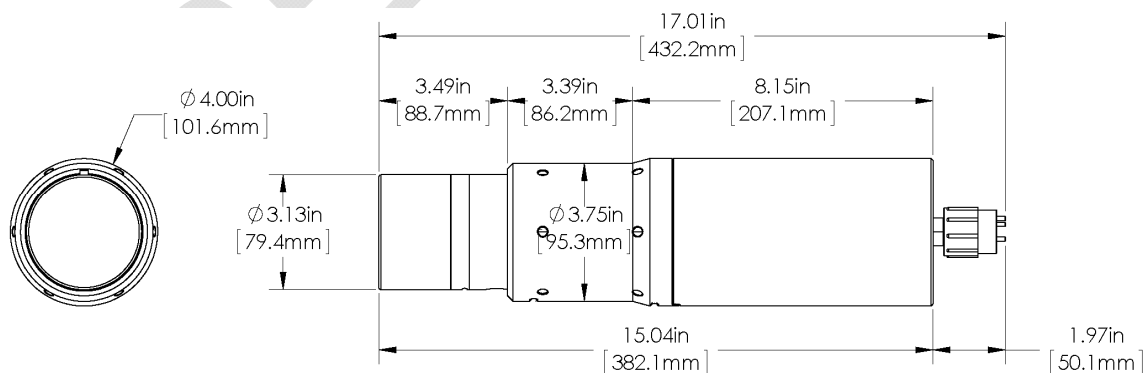
Gyro-stabilization of the Imagenex Model 881A-GS makes the high resolution 881A sonar into a system capable of crystal clear visualization of the ocean environment from moving platforms, no longer compromised by the blurring effects of host vehicle rotation. An advanced, low drift gyro is integrated directly into the sonar head, so the sonar can now compensate for vehicle motion in real time with unprecedented accuracy, stability, and robustness.

The enhanced capabilities of the 881A-GS have not compromised the performance of the 881A sonar. On short range, this sonar scans using a 2 mm range resolution, and can auto-adjust acoustic frequency and resolution to scan up to a 200 m radius, 360° surrounding area.

The Model 881A-GS still has low power, simple set-up, and small size that make it an ideal tool for large work ROV's and small inspection vehicles. On it's own it is now an amazingly simple drop sonar and borehole inspection package: just add a laptop computer and power supply and run the included Imagenex software.



<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>ORIENTATION MODULE (accuracies):</b>	
<b>PITCH &amp; ROLL</b>	± 0.1° typical
<b>HEADING (Magnetic)</b>	± 1.0° typical
<b>MIN. DETECTABLE RANGE</b>	150 mm (6")
<b>MAX. OPERATING DEPTH</b>	10000 m
<b>MAX. CABLE LENGTH</b>	1000 m on typical twisted shielded pair (RS-485)
<b>INTERFACE</b>	RS-485 serial interface @ 115.2 kbps (or optional RS-232)
<b>CONNECTOR</b>	End mounted, four conductor, wet mateable (Subconn BH4M-Ti)
<b>POWER SUPPLY</b>	20 – 36 VDC at less than 7 Watts
<b>DIMENSIONS (for both depths)</b>	101.6 mm (4") diameter x 382.1 mm (15.04") length
<b>WEIGHT: In Air</b>	~ 8 kg (~ 17 lbs)
<b>In Water</b>	~ 5.5 kg (~ 12 lbs)
<b>MATERIALS</b>	Titanium & Polyurethane
<b>FINISH</b>	None



<b>SOFTWARE SPECIFICATIONS:</b>	<b>Win881AL.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ XP, Vista, 7, 8, 10
<b>MODES</b>	Sector, Polar and Side Scan
<b>GYRO MODES</b>	North Up, Heading Up, Target Steering
<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).81R
<b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b>	2 GHz Pentium 4 256 MB RAM 20 GB Hard Disk 1024 x 768 Screen Resolution

<b>ORDERING INFORMATION:</b>		
<b>10000 m UNIT</b>	Standard	881-000-403
RS-232	Option	-006
Gyro Stabilization	Option	-048

Product and company names listed are trademarks or trade names of their respective companies.