

## IMAGENEX MODEL 882-GS GYRO STABILIZED MULTI-FREQUENCY IMAGING SONAR

### APPLICATIONS:

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

### FEATURES:

- **Ethernet** (or Optional Serial)
- Programmable (format available)
- Gyro stabilized transducer steering
- Simple set-up and installation
- Full scale range from 1 m to 100 m
- Orientation module

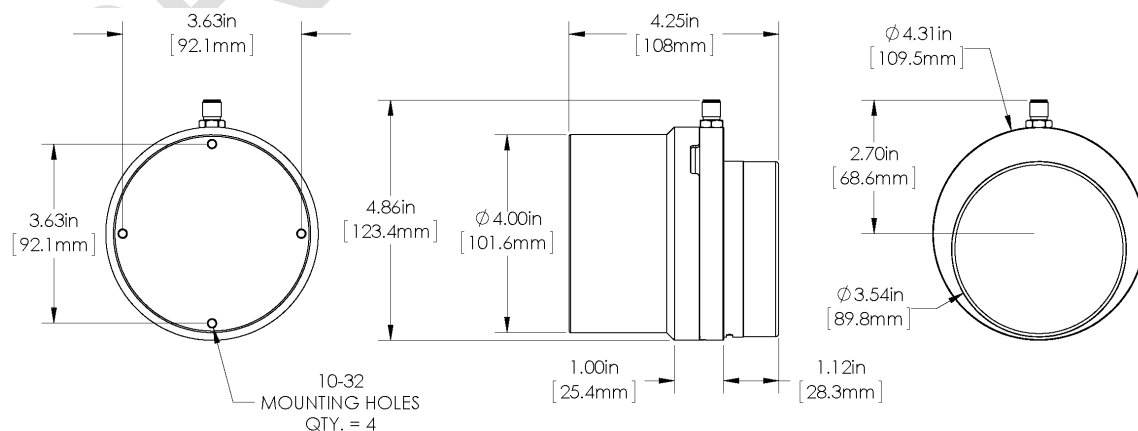
Gyro-stabilization makes the high resolution 882-GS sonar capable of crystal clear visualization of the ocean environment from moving platforms, no longer compromised by the blurring effects of host vehicle rotation. An advanced, low drift gyro is integrated directly into the sonar head, so the sonar can compensate for vehicle motion in real time with unprecedented accuracy, stability, and robustness.

Using Ethernet communications, this all-in-one, high performance digital imaging sonar exceeds 100 shots per second on short range at up to 2 mm range resolution, and can auto-adjust acoustic frequency and resolution to scan up to a 100 m radius, 360° surrounding area.

The Model 882-GS 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 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>	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>	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>	300 m and 1000 m available
<b>MAX. CABLE LENGTH</b>	Standard: 100 m on CAT5e (Ethernet) Cable length may be increased up to ~9000 m using an Ethernet extender. Please enquire for more information.
<b>(Optional Serial Interface)</b>	1000 m on typical twisted shielded pair (RS-485)
<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>(Optional Serial Interface)</b>	RS-485 serial interface @ 115.2 kbps (or optional RS-232)
<b>CONNECTOR</b>	<b>Ethernet</b> IE55-1206-BCR
	<b>Serial</b> IE55-1004-BCR
<b>POWER SUPPLY</b>	20 – 32 VDC at less than 7 Watts
<b>DIMENSIONS</b>	300 m unit: See drawing below 1000 m unit: TBA
<b>WEIGHT: In Air</b>	300 m unit: ~1.2 kg (~2.6 lbs) 1000 m unit: TBA
<b>In Water</b>	300 m unit: ~0.3 kg (~0.7 lbs) 1000 m unit: TBA
<b>MATERIALS</b>	6061-T6 Aluminum & Polyurethane
<b>FINISH</b>	Hard Anodize



<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
<b>TRAIN ANGLES</b>	Continuous rotation, 3° increments
<b>SECTOR SIZE: SECTOR MODE POLAR MODE</b>	0° – 180°, 3° increments 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>300 m UNIT</b>	Standard	882-000-100
<b>1000 m UNIT</b>	Standard	882-000-101
RS-232	Option	-006
RS-485	Option	-007
IP Address* (for Ethernet version only)	Option	-020

\*Note: Standard IP Address is 192.168.0.5  
A different IP Address may be specified upon ordering.

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