

## IMAGENEX MODEL 852-GS GYRO STABILIZED ULTRA-MINIATURE IMAGING SONAR

## APPLICATIONS:

- ROV, AUV, & UUV
- Manned Submersibles
- Search & Recovery
- Scientific Research

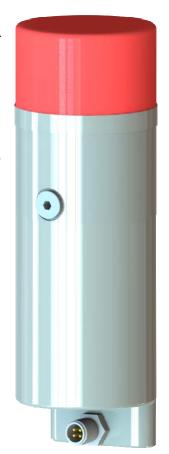
## **FEATURES:**

- Ultra-miniature size is ideal for mounting on today's micro ROV's
- · Gyro stabilized transducer steering
- Daisy-chain sonar with optional echo sounder
- Simple set-up and installation
- Orientation module

The Imagenex Model 852-GS was designed for use with the smallest of ROV's and inspection vehicles. Gyro-stabilization is integrated directly into the sonar head, so the sonar is no longer compromised by the blurring effects of host vehicle rotation.

Connect the optional echo sounder to the sonar and straight to the surface.

Serial communication is utilized, RS-485 or RS-232 at 115.2 kbps. This unit will scan 360° with a maximum range of 50 meters.





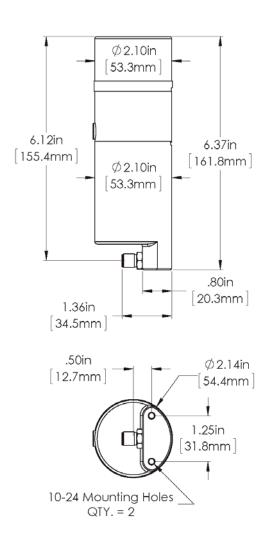
Optional Echo Sounder

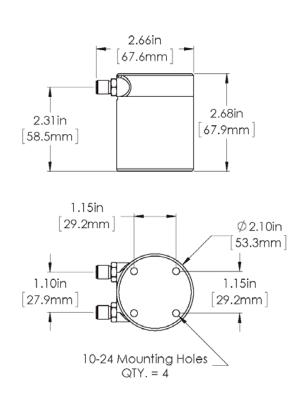
HARDWARE		
SPECIFICATIONS:		
FREQUENCY	675 kHz	
TRANSDUCER	Imaging type, fluid compensated	
TRANSDUCER BEAM WIDTH	675 kHz: 2.4° x 20°	
RANGE RESOLUTION	5 m & up: 10 mm (0.4") @ 500 data points or	
	20 mm (0.8") @ 250 data points (Polar mode)	
ORIENTATION MODULE (accuracies):		
PITCH & ROLL	TBA	
HEADING (Magnetic)	TBA	
MIN. DETECTABLE RANGE	150 mm (6")	
MAX. OPERATING DEPTH	300 m	
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	IE55-1206-BCR	
POWER SUPPLY	12 – 50 VDC at less than 3 Watts	
DIMENSIONS	54.4 mm (2.14") diameter x 161.8 mm (6.37") length	
WEIGHT: In Air	~0.6 kg (~1.3 lbs)	
In Water	~0.3 kg (~0.7 lbs)	
MATERIALS	6061-T6 Aluminum & Polyurethane	
FINISH	Hard Anodize	

SOFTWARE SPECIFICATIONS:	Win881ALGS.exe	
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
MODES	Sector, Polar, and Side Scan	
GYRO MODES	North Up, Heading Up, Target Steering	
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 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).81R	
RECOMMENDED	2 GHz Pentium 4	
MINIMUM COMPUTER	256 MB RAM	
REQUIREMENTS:	20 GB Hard Disk	
	1024 x 768 Screen Resolution	

OPTIONAL ECHO SOUNDER		
HARDWARE SPECIFICATIONS:		
FREQUENCY	675 kHz	
TRANSDUCER	Conical	
TRANSDUCER BEAM WIDTH	10°	
RANGE RESOLUTION	20 mm	
MIN. DETECTABLE RANGE	500 mm	
MAX. OPERATING DEPTH	300 m	
MAX. CABLE LENGTH	1000 m on typical twisted shielded pair	
INTERFACE	RS-485 @ 115.2 kbps (RS-232 optional)	
CONNECTOR	IE55-1206-BCR	
POWER SUPPLY	12 – 50 VDC at less than 3 Watts	
DIMENSIONS	See drawing	
WEIGHT: In Air	~0.23 kg (~0.5 lbs)	
In Water	~0.07 kg (~0.16 lbs)	
MATERIALS	6061-T6 Aluminum	
FINISH	Hard Anodize	

OPTIONAL ECHO SOUNDER		
SOFTWARE SPECIFICATIONS:		
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
MODES	Echosounder	
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 m	
EXTERNAL INPUT	Depth, Heading, Turns	
FILE FORMAT	TBA	
RECOMMENDED	2 GHz Pentium 4	
MINIMUM COMPUTER	256 MB RAM	
REQUIREMENTS:	20 GB Hard Disk	
	1024 x 768 Screen Resolution	





Optional Echo Sounder

ORDERING INFORMATION:		
300 m UNIT	Standard	852-000-400
RS-232	Option	-006
External Trigger	Option	-023
Echo Sounder	Option	-053

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