



IMAGENEX MODEL 851 MINIATURE SCANNING SONAR

APPLICATIONS:

- ROV Navigation
- Diving Support
- Inspection
- Search & Recovery

FEATURES:

- Sub-miniature split transducer design allows this unit to be mounted on the smallest ROV
- Low cost
- Direct connection to laptop computer

The Model 851 Digital Imaging Sonar was designed for use with the smallest of ROV's. For maximum flexibility, this is a split head design with a fluid filled front end and a pressure housing for the electronics.

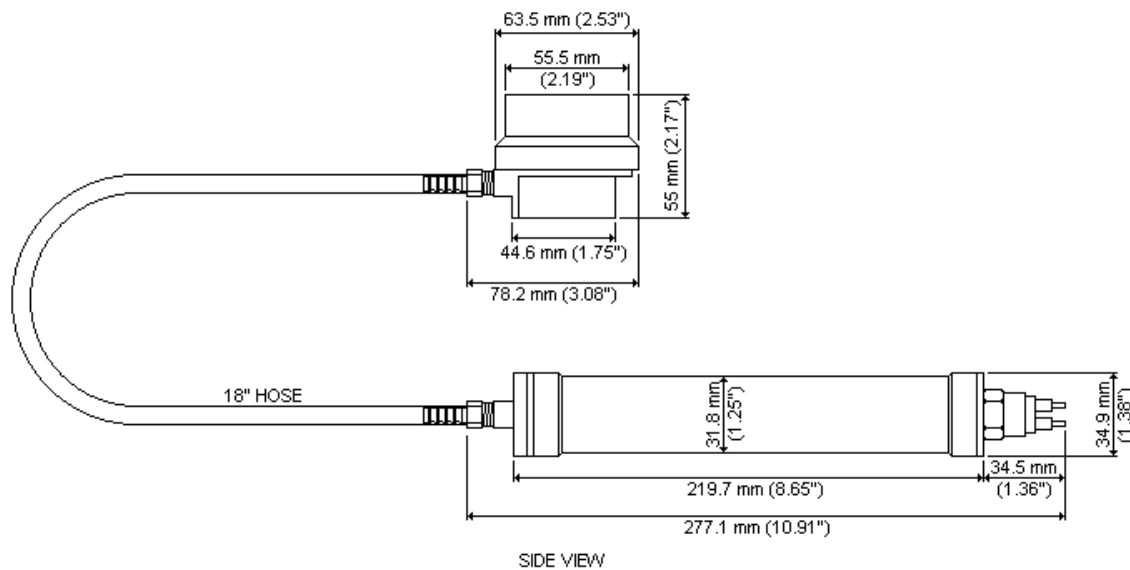


The unit requires approximately 2.5 Watts from 24 VDC, or optional 48 VDC. Serial communication is utilized, RS-485 or RS-232 at 115.2 kbps. This unit will scan a maximum of 306° with a maximum range of 50 meters. The total weight in water is less than 0.3 kg (0.6 lbs).

HARDWARE SPECIFICATIONS:	
FREQUENCY	675 kHz
TRANSDUCER	Imaging type, fan beam, fluid compensated
TRANSDUCER BEAM WIDTH	2.5° x 22°
TRANSMIT PULSE LENGTH	100 microseconds
RANGE RESOLUTION	10 mm
MIN. DETECTABLE RANGE	150 mm
MAX. OPERATING DEPTH	1000 m
MAX. CABLE LENGTH	1000 m on typical twisted shielded pair
INTERFACE	RS-485 @ 115.2 kbps (RS-232 optional)
CONNECTOR	Four conductor wet mateable (Impulse MCBH-4-MP-SS)
POWER SUPPLY	22 – 30 VDC at less than 3 Watts Optional 40 – 56 VDC
DIMENSIONS	See drawing
WEIGHT: In Air	653 g (1.5 lbs)
In Water	286 g (0.6 lbs)
MATERIALS	6061-T6 Aluminum & Polyurethane
FINISH	Anodized

SOFTWARE SPECIFICATIONS:	Win851.exe
WINDOWS™ OPERATING SYSTEM	Windows™ 95, 98, Me, NT*, 2000*, XP*
MODES	Polar and Sector
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 m
SECTOR SIZE:	
SECTOR MODE	0° – 180°, 18° increments
POLAR MODE	0° – 306°, 18° increments
STEP SIZES	Slow (0.9°), Fast (1.8°)
GRID TYPE	Polar
EXTERNAL INPUT	Compass heading, depth, turns count (RS-232)
FILE FORMAT	(filename).851
RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:	100 MHz Pentium 16 MB RAM 1 GB Hard Disk 800 x 600 x 256 colour graphics

* Requires Win851.exe v2.00 or higher (Free upgrade available for older versions – Contact Imagenex)



ORDERING INFORMATION:		
1000 m UNIT	Standard	851-000-100
RS-232	Option	-006
40 – 56 VDC	Option	-013

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