

IMAGENEX MODEL 853 SCIENTIFIC ECHO SOUNDER with DATA LOGGER

APPLICATIONS:

- Seaglider Installation
- ROV, AUV & UUV
- Offshore Oil & Gas
- Surveying
- Scientific Research
- Fisheries Research

FEATURES:

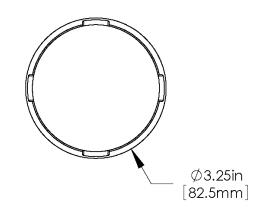
- Programmable
- High performance
- Low power
- Simple set-up and installation
- Digital telemetry
- 25, 50 or 100 m operation
- Compact size
- · Communication format available to user
- USB Data download

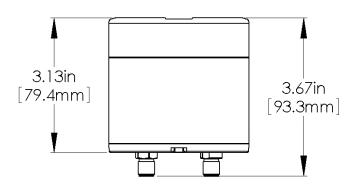


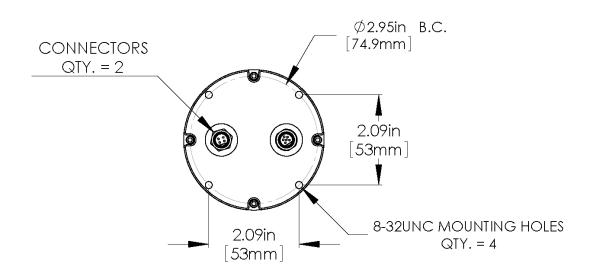
HARDWARE			
SPECIFICATIONS:			
FREQUENCY	120 kHz or Optional 300 kHz		
TRANSDUCER	Conical		
TRANSDUCER BEAM WIDTH	10°		
TRANSDUCER SOURCE LEVEL	210 dB re 1 μPa @ 1 m (nominal)		
TRANSDUCER RECEIVE SENSITIVITY	-180 dB re 1 V/μPa (nominal)		
RECEIVE BANDWIDTH	10 kHz		
PULSE LENGTH	100 µs		
MAXIMUM INPUT LEVELS	with 20 dB Gain: 35 mV _{RMS} with 40 dB Gain: 3.5 mV _{RMS}		
NOISE FLOOR	with 40 dB Gain: -96 dB re 1 V _{RMS}		
RANGE BINS	200		
DATA STORAGE	200 Days before Download		
MIN. DETECTABLE RANGE	0.5 m		
MAX. DETECTABLE RANGE	100 m		
MAX. OPERATING DEPTH	1000 m		
MAX. CABLE LENGTH	15 m (RS-232), 3 m (USB)		
TELEMETRY/ PROGRAMMING INTERFACE	RS-232 Serial Interface @ 115.2 kbps (or as ordered)		
DOWNLOAD INTERFACE	USB		
CONNECTORS	Impulse IEW55-1004-BCR / IEW55-1006-BCR		
POWER SUPPLY	9 – 32 VDC at less than 0.25 Watts (Glider mode only)		
TEMPERATURE	-5 to +35 °C (operational) -40 to +50 °C (storage)		
DIMENSIONS	See drawing		
WEIGHT: In Air	~ 1 kg (2.2 lbs)		
In Water	~ 0.55 kg (1.2 lbs)		
MATERIALS	6061-T6 Aluminum, PVC		
FINISH	Hard Anodize		

SOFTWARE	Programming/Download/Viewing	
SPECIFICATIONS:	program: Win853.exe	
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
MODES	Normal (interrogate to ping)	
	Glider (one ping every 4 seconds)	
	Stand Alone (one ping per second)	
RANGE SCALES	25 m, 50 m, 100 m	
FILE FORMAT	(filename).853	
RECOMMENDED	2 GHz Pentium 4	
MINIMUM COMPUTER	256 MB RAM	
REQUIREMENTS:	20 GB Hard Disk	
	1024 x 768 screen resolution	









ORDERING INFORMATION:		
1000 m UNIT	Standard	853-000-140
300 kHz	Option	-049

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