



IMAGENEX MODEL 881A AZIMUTH DRIVE

APPLICATIONS:

- 3D Precision Surveying
- Sediment Transport Research
- Marine Geology
- Scientific Research

FEATURES:

- Programmable
- Continuous Rotation
- Suitable for Autonomous or Remote Deployment

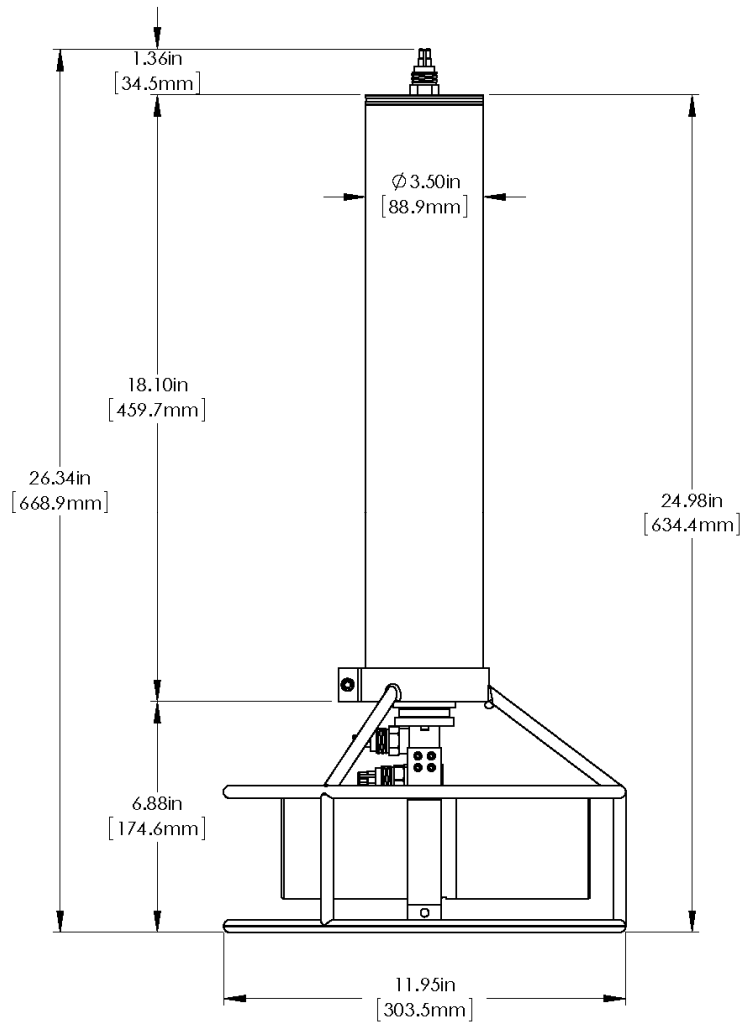
The Model 881A Azimuth Drive is a rugged and powerful rotary actuator drive that can be coupled to an Imagenex Model 881A Profiling Sonar. The two axes of rotation in this combined unit provide the capability to obtain accurate, high resolution range information in any direction. In standard applications, profiles may be made in any direction by simply commanding the Azimuth Drive to rotate the attached profiling sonar anywhere in a circle. The profiling sonar can then perform a cross-sectional scan before being rotated to a new azimuth angle. The Azimuth Drive uses the same RS-485 serial communications line and command structure as the profiling head. A single, simple to use PC compatible computer program operates both, and full communications protocol specifications are provided for designing customized software.



Imagenex Model 881A Profiling Sonar
(Model 881-000-420) not included

HARDWARE SPECIFICATIONS:	
MAX. OPERATING DEPTH	1000 m and 3000 m available
MAX. CABLE LENGTH	1000 m on typical twisted shielded pair (RS-485)
INTERFACE	RS-485 serial interface @ 115.2 kbps
CONNECTOR	Four conductor, wet mateable (Subconn MCBH4M-AS)
STANDARD ACCESSORIES	Azimuth Drive to Sonar Head Interconnect Cable
POWER SUPPLY	20 – 36 VDC at 1 Amp max.
DIMENSIONS	89 mm (3.5") diameter x 445 mm (17.5") length 291 mm (11.5") Cage diameter
WEIGHT: In Air	1000 m unit: 7.7 kg (17 lbs) 3000 m unit: TBA
In Water	1000 m unit: 2.7 kg (6 lbs) 3000 m unit: TBA
MATERIALS	6061-T6 Aluminum & 300 Series Stainless Steel
FINISH	Anodized

SOFTWARE SPECIFICATIONS:	Win881A.exe
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10
AZIMUTH ANGLE	0° – 359.7°, 0.3° increments
FILE FORMAT	(filename).81a, (filename).xyz
RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:	100 MHz Pentium 16 MB RAM 1 GB Hard Disk 800 x 600 x 256 colour graphics



ORDERING INFORMATION:		
1000 m UNIT	Standard	881-000-450
3000 m UNIT	Standard	881-000-451
Interface source code in "C" (TESTAZIM.C)	Option	-018

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