



# IMAGENEX MODEL 881A AZIMUTH DRIVE

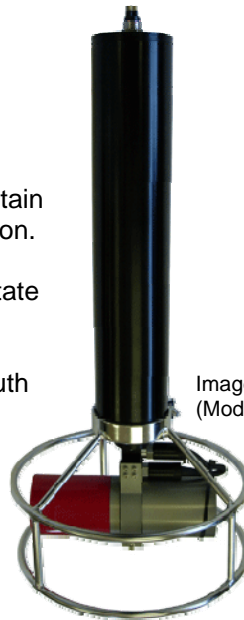
### APPLICATIONS:

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

### FEATURES:

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

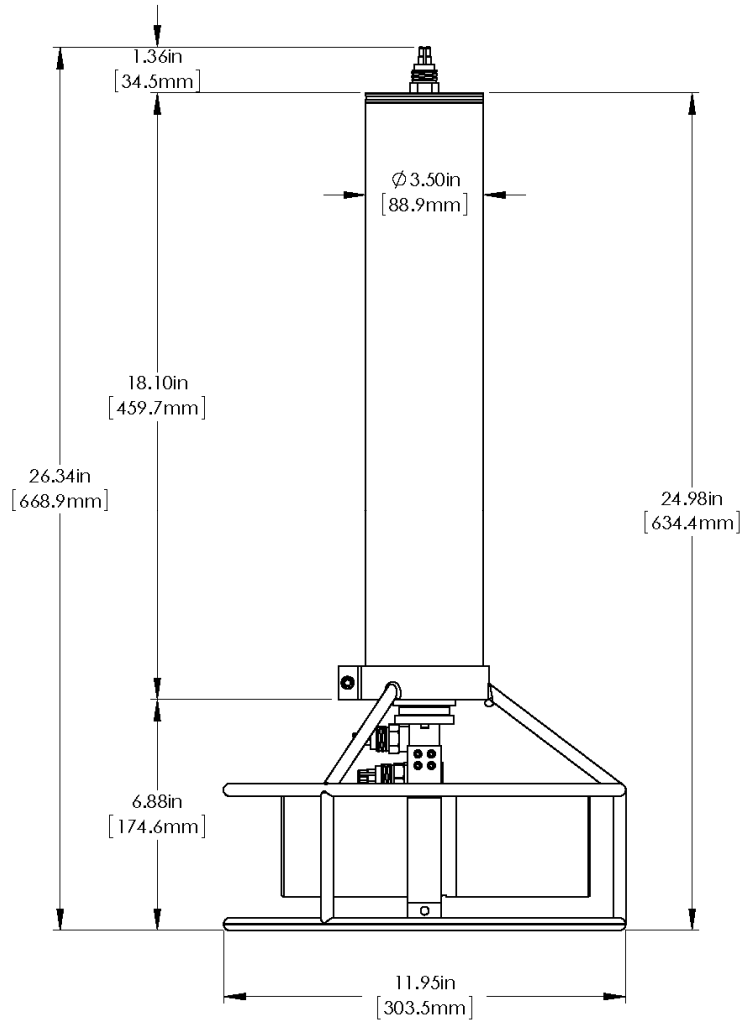
The Model 881A Azimuth Drive is a rugged and powerful rotary actuator drive that can be coupled to an Imagenex Model 881A Profiling Sonar. The two axes of rotation in this combined unit provide the capability to obtain accurate, high resolution range information in any direction. In standard applications, 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

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

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



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

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