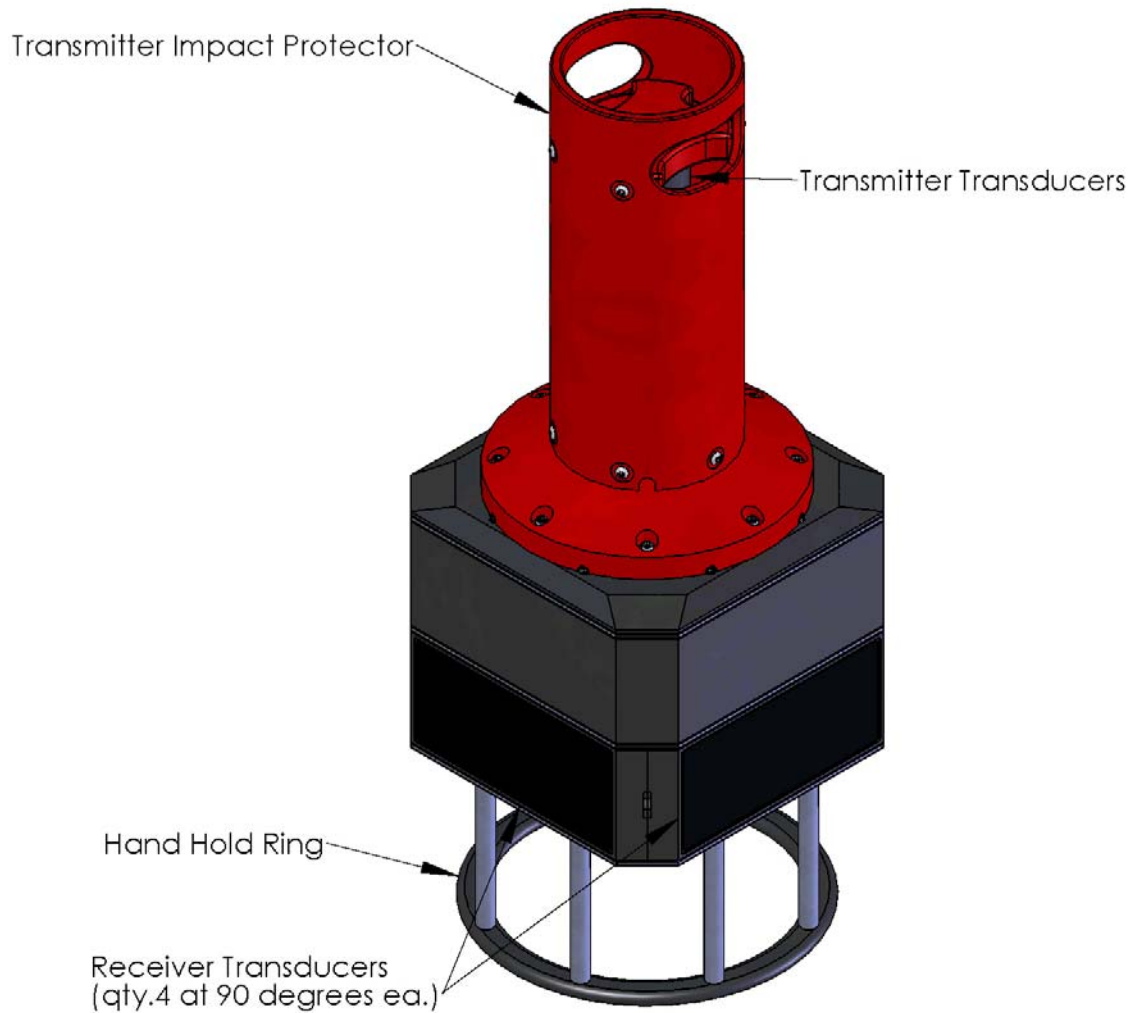


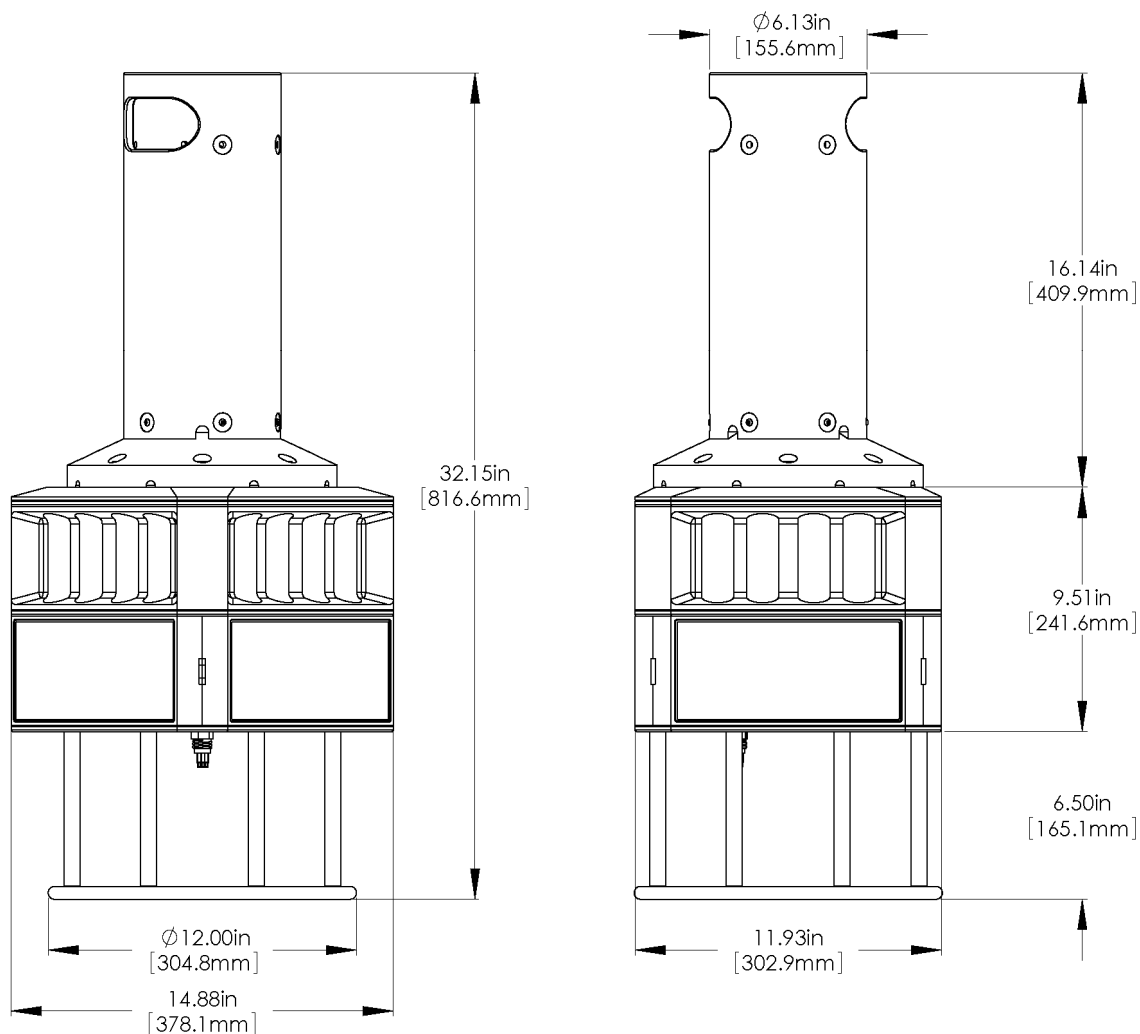
**IMAGENEX MODEL 837C Long Range  
DIVER DETECTION SONAR**



<b>HARDWARE SPECIFICATIONS:</b>	
<b>FREQUENCY</b>	60 kHz
<b>SOURCE LEVEL</b>	207 dB
<b>TRANSDUCER BEAM WIDTH (nominal)</b>	Receive: 360° x 17° Transmit: 360° x 6°, 8°, 12°, or 24°
<b>EFFECTIVE BEAM WIDTH</b>	0.75°
<b>DATA POINTS</b>	500 or 1000 cells
<b>RANGE RESOLUTION</b>	1/500 or 1/1000 of range
<b>MIN. DETECTABLE RANGE</b>	10 m
<b>MAX. OPERATING DEPTH</b>	50 m
<b>SYNCHRONIZATION</b>	External Trigger Pulse
<b>INTERFACE TO PC</b>	10/100 Mbps Ethernet (100 BASE-Tx) using TCP/IP
<b>MAX. CABLE LENGTH</b>	Standard: 100 m on CAT5e
<b>CONNECTOR</b>	End mounted, 8 conductor, wet mateable (Subconn MCBH-8M-SS)
<b>POWER SUPPLY</b>	48 V Nominal, (36 – 60 VDC) at less than 35 Watts
<b>DIMENSIONS</b>	See drawing
<b>WEIGHT: In Air</b>	50 kg
<b>In Water</b>	25 kg
<b>MATERIALS</b>	PVC, Polyurethane, Epoxy, Stainless Steel connector

<b>SOFTWARE SPECIFICATIONS:</b>	<b>DDS360.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ XP, Vista, 7, 8, 10
<b>DISPLAY MODES</b>	Polar, Beam Test
<b>PERSISTENCE (TRAIL)</b>	1 – 600 seconds
<b>RANGE SCALES</b>	10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 80 m, 100 m, 150 m, 200 m, 250 m, 300 m, 400 m, 500 m
<b>PULSE WIDTH</b>	Automatic with manual multiplier
<b>MANUAL GAIN CONTROL</b>	0 to 20 dB
<b>BUILT IN TEST</b>	On/Off indication of individual receive staves (16 x 4)
<b>FILE FORMAT:</b> RAW DATA BEAM (floating point)	(filename).96B (filename).83Q
<b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b>	2 GHz Pentium 4 256 MB RAM 20 GB Hard Disk 1024 x 768 screen resolution

<b>OPTIONAL SPECIFICATIONS:</b>	
<b>ORIENTATION MODULE (accuracies):</b>	
<b>PITCH &amp; ROLL</b>	± 0.1° typical
<b>HEADING</b>	± 1.0° typical
<b>DEPTH</b>	± 0.5% of FS typical
<b>TEMPERATURE</b>	± 0.5°C typical
<b>GYRO COMPASS</b>	Fizoptika VG910Q



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