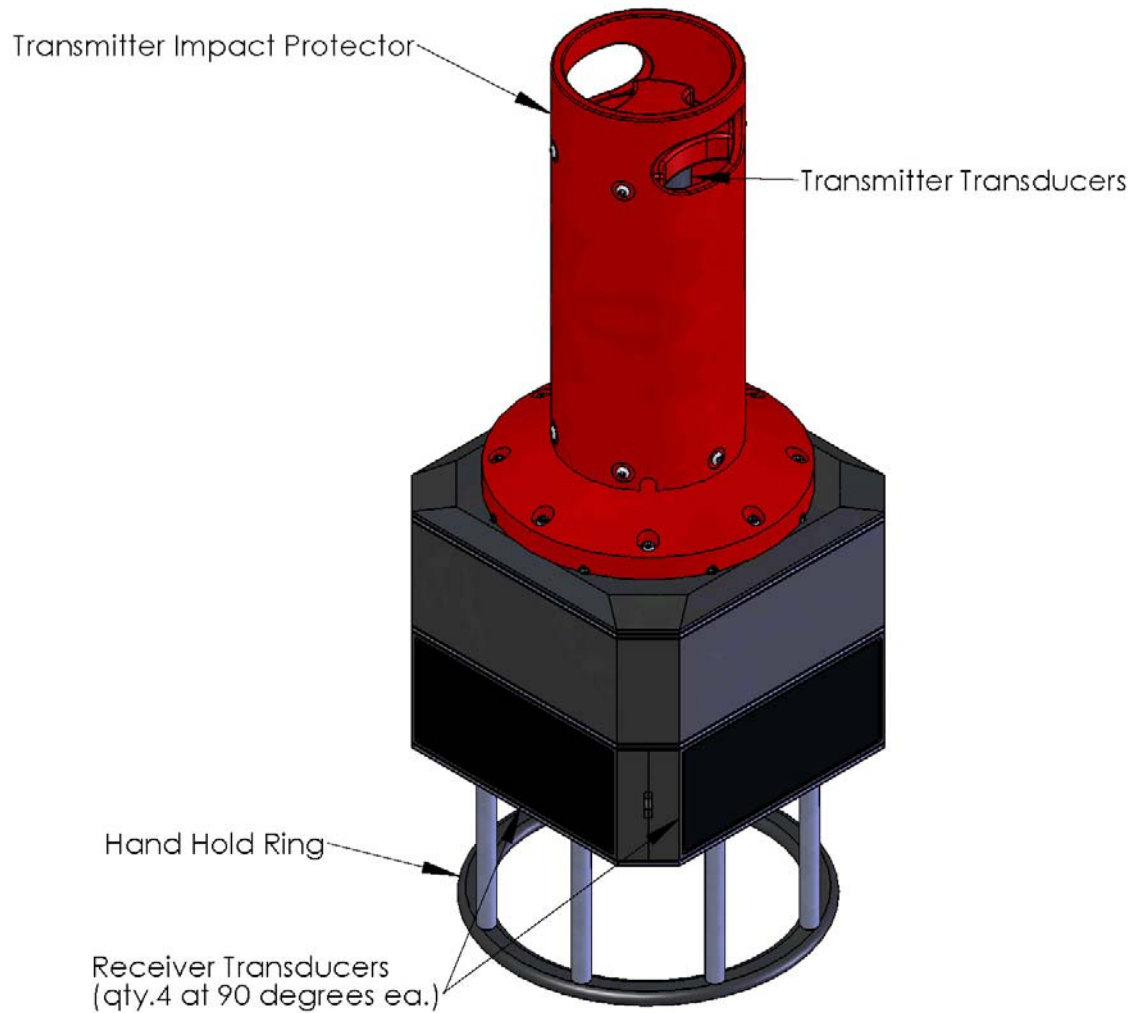


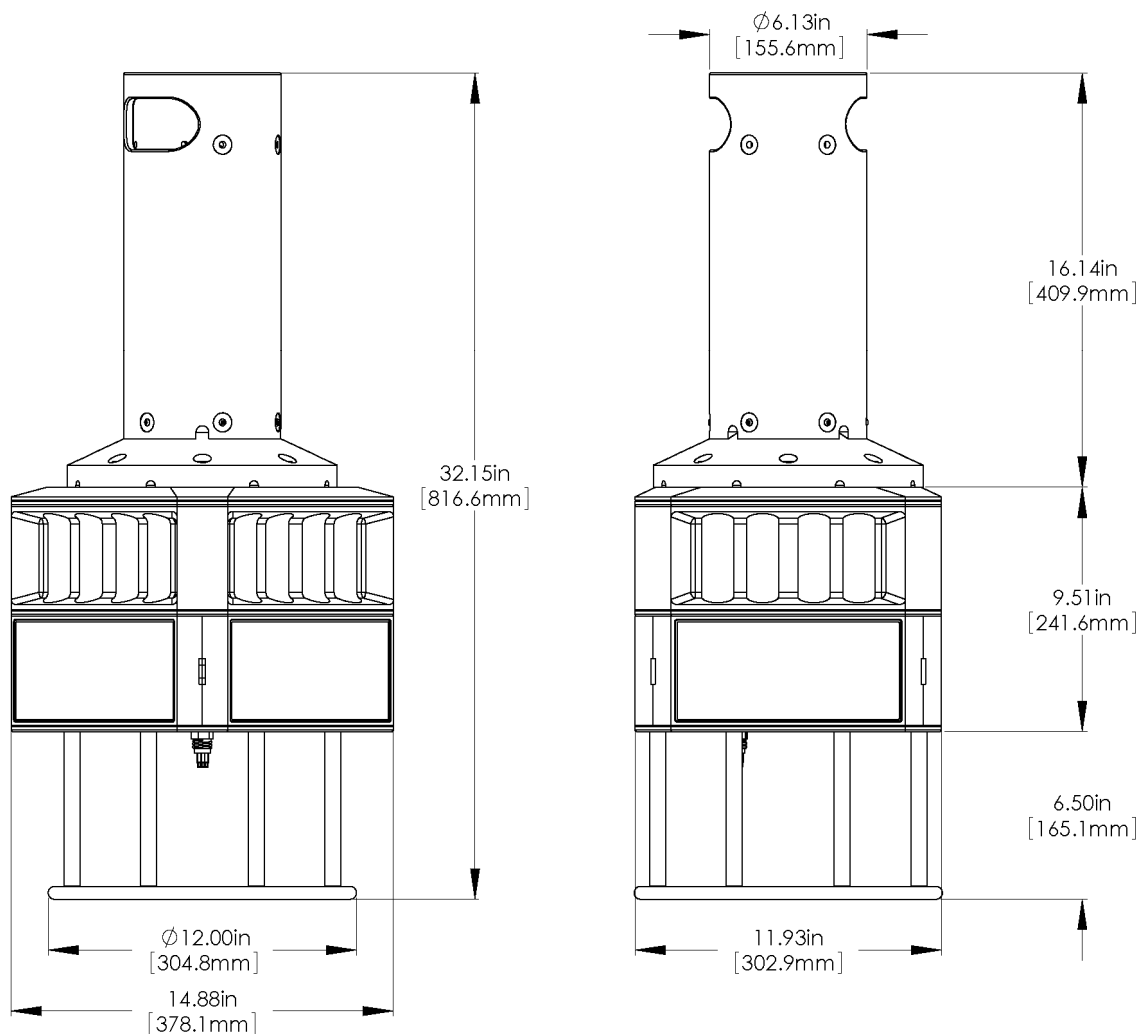
**IMAGENEX MODEL 837C Long Range
DIVER DETECTION SONAR**



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

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

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|---|----------------------|
| OPTIONAL SPECIFICATIONS: | |
| ORIENTATION MODULE (accuracies): | |
| PITCH & ROLL | ± 0.1° typical |
| HEADING | ± 1.0° typical |
| DEPTH | ± 0.5% of FS typical |
| TEMPERATURE | ± 0.5°C typical |
| GYRO COMPASS | Fizoptika VG910Q |



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