IMAGENEX MODEL DT360
MULTIBEAM PROFILING SONAR
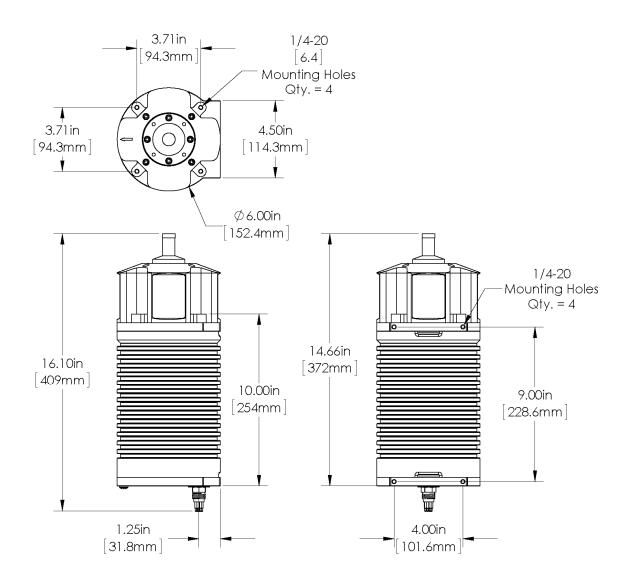
HARDWARE SPECIFICATIONS:

FREQUENCY	675 kHz
TRANSDUCER BEAM WIDTH (nominal)	Horizontal: 360° Vertical: 3°
EFFECTIVE BEAM WIDTHS	Narrow: 0.75° Medium: 1.5° Wide: 3°
NUMBER OF BEAMS	360, 720, 1440
DATA POINTS	500 or 1000
RANGE RESOLUTION	1/500 or 1/1000 of range
MIN. DETECTABLE RANGE	0.5 m
MAX. OPERATING DEPTH	1000 m
FRAME RATE	Up to 10 fps
INTERFACE TO PC	Standard: 10/100 Mbps Ethernet (10 BASE-T or 100 BASE-TX) using TCP/IP Bit rate may vary if an Ethernet extender is in use**.
MAX. CABLE LENGTH	Standard: 100 m on CAT5e Cable length may be increased up to ~9000 m using an Ethernet extender**. Please enquire for more information.
CONNECTOR	End mounted, 8 conductor, wet mateable (Subconn MCBH8M-SS)
POWER SUPPLY	24 V Nominal, (20 – 32 VDC) at less than 20 Watts
DIMENSIONS	See drawing
WEIGHT: In Air	~15 lbs (~7 kg)
In Water	~3 lbs (~1.5 kg)
MATERIALS	6061-T6 Aluminum, PVC, Epoxy, Stainless Steel connector
FINISH	Hard Anodize

*Data is acquired at full resolution every shot: processing the data for screen display on a PC can slow the system at highest number of beams. 360 beam mode is recommended for real time data acquisition. The data can then be played back at highest resolution (1440 beam).
**Only for 10 BASE-T

SOFTWARE SPECIFICATIONS:	**DT360.exe**
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10
DISPLAY MODES	Polar, Beam Test
RANGE SCALES	2.5 m, 5 m, 10 m, 20 m
PULSE WIDTH	Automatic with manual multiplier
MANUAL GAIN CONTROL	0 to 20 dB

FILE FORMAT:
    RAW DATA
    BEAM
    POINT
	
	(filename).R96
	(filename).B96
	(filename).P96

RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:	2 GHz Pentium 4 256 MB RAM 20 GB Hard Disk 1024 x 768 screen resolution

3.71in [94.3mm]

3.71in [94.3mm]

1/4-20 [6.4]
Mounting Holes
Qty. = 4

4.50in [114.3mm]

∅ 6.00in [152.4mm]

16.10in [409mm]

10.00in [254mm]

1.25in [31.8mm]

14.66in [372mm]

1/4-20
Mounting Holes
Qty. = 4

9.00in [228.6mm]

4.00in [101.6mm]

ORDERING INFORMATION:		
1000 m UNIT	Standard	965-000-301

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IMAGENEX