



**DT360xi**

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## **IMAGENEX MODEL DT360xi 2.25 MHz MULTIBEAM PROFILING SONAR**



<b>HARDWARE SPECIFICATIONS:</b>	
<b>FREQUENCY</b>	2.25 MHz
<b>TRANSDUCER BEAM WIDTH (nominal)</b>	Horizontal: 360° Vertical: 0.7°
<b>EFFECTIVE BEAM WIDTHS</b>	Narrow: 0.75° Medium: 1.5° Wide: 3°
<b>NUMBER OF BEAMS*</b>	360, 720, 1440
<b>DATA POINTS</b>	500 or 1000
<b>RANGE RESOLUTION</b>	1/500 or 1/1000 of range
<b>MIN. DETECTABLE RANGE</b>	0.25 m
<b>MAX. OPERATING DEPTH</b>	1000 m
<b>FRAME RATE</b>	Up to 20 fps
<b>INTERFACE TO PC</b>	Ethernet (100 Mbps) using TCP/IP
<b>MAX. CABLE LENGTH</b>	100 m on CAT5e (Longer cable runs possible with additional hardware)
<b>CONNECTOR</b>	End mounted, 8 conductor, wet mateable (Subconn MCBH8M-SS)
<b>POWER SUPPLY</b>	24 V Nominal, (22 – 32 VDC) at less than 25 Watts
<b>DIMENSIONS</b>	See drawing
<b>WEIGHT: In Air</b>	~12 lbs (~5.4 kg)
<b>In Water</b>	TBA
<b>MATERIALS</b>	6061-T6 Aluminum, PVC, Epoxy, Stainless Steel connector
<b>FINISH</b>	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).

<b>SOFTWARE SPECIFICATIONS:</b>	<b>DT360Xi.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ XP, Vista, 7, 8, 10
<b>DISPLAY MODES</b>	Polar, Beam Test
<b>RANGE SCALES</b>	0.5 m, 1 m, 2 m, 3 m, 4 m, 5 m, 6 m, 8 m, 10 m
<b>PULSE WIDTH</b>	Automatic with manual multiplier
<b>MANUAL GAIN CONTROL</b>	0 to 20 dB
<b>FILE FORMAT:</b> RAW DATA BEAM POINT	(filename).IGX (filename).B96 (filename).P96
<b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b>	2 GHz Pentium 4 256 MB RAM 20 GB Hard Disk 1024 x 768 screen resolution

