

IMAGENEX MODEL DT101xi MULTIBEAM PROFILING SONAR with Optional Internally Integrated Motion Reference Unit & Sound Velocity Sensor



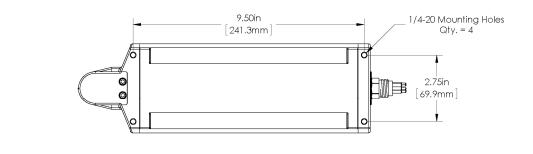
The new DT101xi Multibeam Profiling Sonar (i.e. Multibeam Echo Sounder) is a single instrument integrating the sonar, motion reference unit (MRU), and sound velocity sensor into one sleek and compact unit. The DT101xi requires only one cable for operating all three sensors and is a portable solution for any survey. Compatible with the DT100 SIR (Sensor Interface Relay) power supply/timing box, simply connecting a dual antenna GNSS/GPS receiver is all that is required to perform bathymetric surveys.

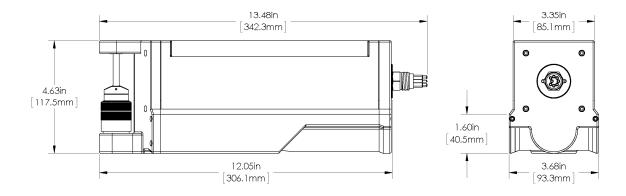
Patent Pending

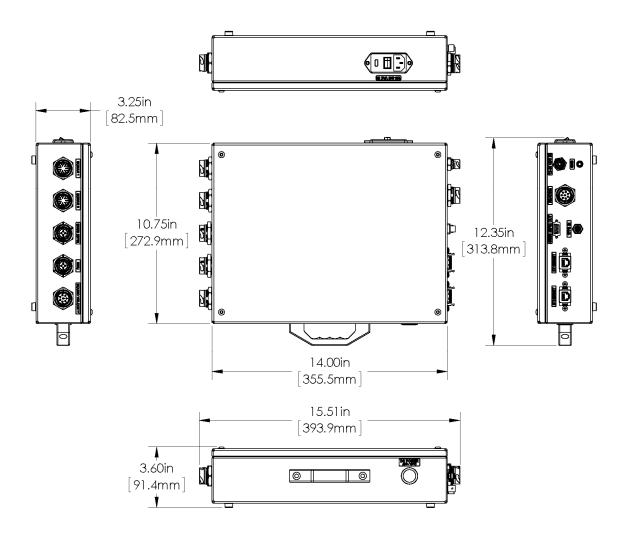


HARDWARE			
SPECIFICATIONS:			
FREQUENCY	240 kHz		
SWATH WIDTH	Transmit: 120° x 3°		
(nominal beam geometry)	Receive: 120° x 3°		
EFFECTIVE BEAM WIDTHS			
LITEOTIVE BEAM WIDTHS	Narrow: 0.75° Medium: 1.5°		
	Wide: 3°		
NUMBER OF BEAMS	-		
NUMBER OF BEAMS	Default: 480 Selectable: 240, 120		
RANGE RESOLUTION:	Selectable: 240, 120		
SCREEN	0.19/ of rongo		
OUTPUT	0.1% of range 0.01% of range		
RANGE	75 m (246') water depth		
NAME	150 m (492') slant range		
MIN. DETECTABLE RANGE	0.5 m (1.6') below transducer		
MOTION REFERENCE UNIT	Internally mounted OEM version		
Pitch and Roll Accuracy:	0.04°		
Heave:	5 cm or 5% (whichever is greater)		
SOUND VELOCITY SENSOR	Internally mounted OEM version of AML Micro•X		
COUNT VEECON 1 CENCOR	1400 m/s to 1600 m/s +/- 0.025 m/s		
MAX. OPERATING DEPTH	300 m (984')		
(Submersion depth)	Contact Imagenex if a greater depth rating is required		
INTERFACE TO PC	Ethernet (100 Mbps) using TCP/IP		
MAX. CABLE LENGTH	100 m (328') on CAT5-e, longer cable runs possible with		
	additional hardware		
CONNECTOR	Underwater wet-mateable 8 conductor		
POWER SUPPLY	22 - 50 VDC at less than 10 Watts		
(sonar head only)			
DIMENSIONS	306 mm (12.05") L x 118 mm (4.63") H x		
	94 mm (3.68") W		
WEIGHT: In Air	4.2 kg (9.5 lbs)		
In Water	1.9 kg (4.2 lbs)		
MATERIALS	Polyoxymethylene (i.e. Delrin), Titanium, PVC,		
	Titanium connector		
POWER SUPPLY/ TIMING BOX:	2 port Ethernet switch (DT101xi PC and Survey PC)		
	Interfaces to:		
DT100 Sensor Interface Relay	DT101xi		
(DT100 SIR)	GNSS (GPS)		
	Gyro / Heading Sensor		
	100 – 240 VAC or 12 – 36 VDC input range		
	Dimensions: 394 mm (15.5") x 314 mm (12.4") x		
MAY DINC DATE	92 mm (3.6")		
MAX. PING RATE	20 Hz		

SOFTWARE	DT101Xi_SIR.exe	
SPECIFICATIONS:	_	
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
DISPLAY MODES	Sector, Linear, Perspective, Profile, Beam Test	
PERSISTENCE (TRAIL)	1 – 300 seconds	
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 80 m,	
	100 m, 150 m	
SECTOR SIZES	30°, 60°, 90°, 120°	
FILE FORMAT:		
RAW DATA	(filename).D1R	
PROFILE POINT	(filename).D1P	
RECOMMENDED	2 GHz Pentium 4	
MINIMUM COMPUTER	256 MB RAM	
REQUIREMENTS:	20 GB Hard Disk	
	1024 x 768 screen resolution	







ORDERING INFORMATION:			
300 m UNIT	Standard	838-000-101	
Sensor Interface Relay box (DT100 SIR)	Standard	837-000-007	
IP Address*	Option	-020	

*Note: Standard IP Address is 192.168.0.2 A different IP Address may be specified upon ordering.

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