

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.

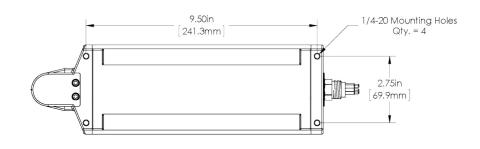
Patent Pending

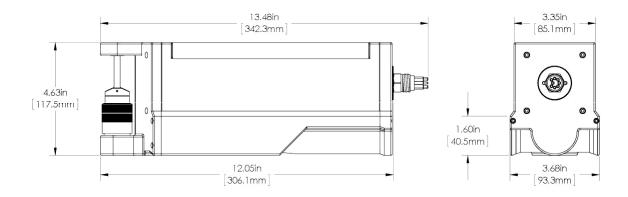
change without notice

HARDWARE			
SPECIFICATIONS:			
<u> </u>	240 kHz		
•	Transmit: 120° x 3°		
	Receive: 120° x 3°		
	Narrow: 0.75°		
_	Medium: 1.5°		
	Wide: 3°		
	Default: 480		
	Selectable: 240, 120		
	·		
SCREEN	0.1% of range		
	0.01% of range		
	75 m (246') water depth		
	150 m (492') slant range		
	0.5 m (1.6') below transducer		
	Internally mounted OEM version		
	0.04°		
	5 cm or 5% (whichever is greater)		
	Internally mounted OEM version of AML Micro•X		
	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		
	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)			
	306 mm (12.05") L x 118 mm (4.63") H x		
	94 mm (3.68") W		
	4.2 kg (9.5 lbs)		
In Water	1.9 kg (4.2 lbs)		
MATERIALS	Polyoxymethylene (i.e. Delrin), Titanium, PVC,		
	Titanium connector		
	2 port Ethernet switch (DT101xi PC and Survey PC)		
	Interfaces to:		
DT100 Sensor Interface Relay	DT101xi		
(DT100 SIR)	GNSS (GPS)		
,	Gyro / Heading Sensor		
İ	100 – 240 VAC or 12 – 36 VDC input range		
	Dimensions: 394 mm (15.5") x 314 mm (12.4") x		
	92 mm (3.6")		
MAX. PING RATE	20 Hz		

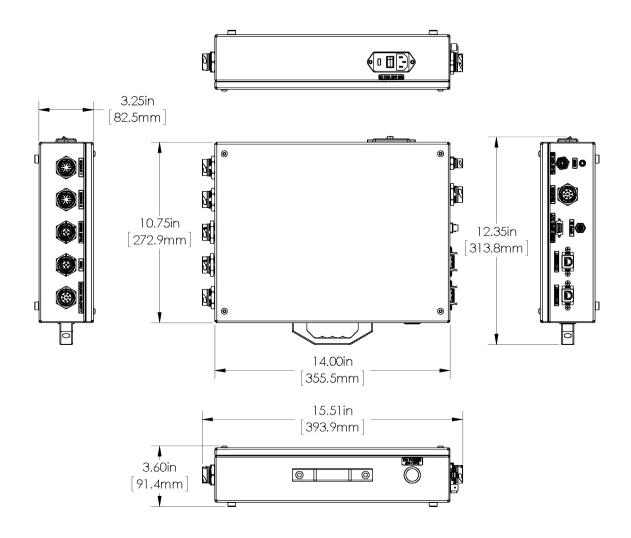


SOFTWARE	DT101Xi_SIR.exe	
SPECIFICATIONS:	_	
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
DISPLAY MODES	Sector, Linear, Perspective, Profile, Beam Test	
PERSISTENCE (TRAIL)	1 – 300 seconds	
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 80 m,	
	100 m, 150 m	
SECTOR SIZES	30°, 60°, 90°, 120°	
FILE FORMAT:	(filename).D1R	
RAW DATA		
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	Standard	837-000-007		
(DT100 SIR)				
IP Address*	Option	-020		

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

Product and company names listed are trademarks or trade names of their respective companies.

