



DigiRANGE II™ Acoustic Ranging System Streamer Mount (CMX)

Performance Data



4000 Series Design Concept

DigiRANGE II is the latest enhancement of the 4000 series platform. The modular design construction of the 4000 series systems allows for accurate, repeatable streamer positioning and control.

Model 4012/11/13 Acoustic Ranging System

The 4012 acoustic module is compatible with DigiRANGE acoustic technology thus improving positional accuracy, reducing in water range acquisition time and increased network density.

- Latest enhancement to DigiRANGE platform. Field upgrade kit available.
- New Advanced Digital Signal Processing algorithms
- Selectable automatic or manual threshold settings for optimized signal detection
- Intelligent device communication scheme allows for collection of 2800 ranges and communication up to 1200 devices within 6 second total cycle time
- Communicates to centralized Windows-based shipboard control and diagnostic system for depth control, acoustic positioning, heading, speed of sound and speed through water measurements
- Max range of 1200 meters
- Supports up to 20 streamers (mutli-vessel support)
- New light weight and rugged housing
 - Non-corrosive outer body
 - Low maintenance design
- Compatible with AcousticBird and DigiRANGE acoustic devices
- Compatible with DigiFIN™ steerage devices
- QuickCUFF™ compatible for rapid deployment and retrieval
- Compatible with DigiCOURSE FSK repeater technology for extended streamer deployments (up to 12 km)
- Worldwide 24 hour support and training

System		ION
Number of Nodes	600 acoustic devices per system	
Instrument Accuracy	0.1 ms	
Range Resolution	0.05 ms	
Number of Ranges per Network	1200 ranges per system (protocol-limited)	
Host Interface Protocol	The Ethernet host protocols provide for multiple, variable-length packets with support for up to 1200 ranges with status information. Also, ION supports the DigiCOURSE standard and extended binary protocol in addition to other customer-defined protocols.	
Specifications		ION
Number of Channels	3 optimizes for Gun 16 optimizes for streamer	
Acoustic Band	50 kHz – 100 kHz	
Ranges per Node	8	
Battery Life	180 days for Lithium (standard); 65 days for Alkaline (optional)	
Length	105.4 cm (41.5 in.)	
Diameter	9.4 cm (3.7 in.)	
Weight (in water)	2.4 kg (5.3 lb.)	
Limited Warranty Period	1 year	
Order Information		ION
Cable-mounted CMX		
26 kHz FSK	P/N 9000-4013/11	
28 kHz FSK	P/N 9000-4013/13	
Alkaline Battery Pack	P/N 4000-052	
Fishing Tool CMX Battery Pack	P/N 4000-098	
Lithium Battery Pack	P/N 4000-076	
Flotation Tube	P/N 9000-303/01	
DigiRANGE to DigiRANGE II Upgrade Kit	P/N 8200-065	

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