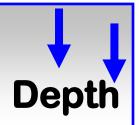


Heave





Pitch Roll Heave MRU 333



Single Beam Surveying Multi-beam Surveying Motion Stabilization USBL Navigation Hull Mounted ADCP

Pitch Roll Heave MRU 333G



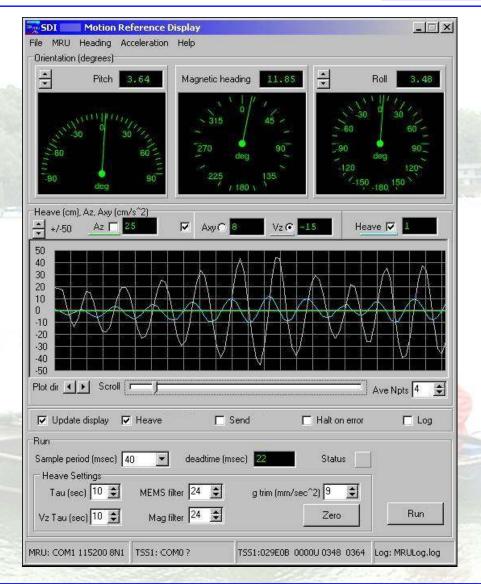
GPS Aided—Course Changes Single Beam Surveying Multi-beam Surveying USBL Navigation ADCP Stabilization

Pitch Roll Heave Depth MRU 333D



ROV Attitude
Diver Tracking Systems
Under-water Construction
Dredging Operations
Directional Drilling

MRU Series Graphics Display



Industry Standard Formats

HYPACK Compatible

MRU Mechanical Specifications

3658520-

3658500-

Material	6061 anodized marine Aluminum
Diameter	7.6 cm (3 inch)
Length	25.5 cm (10 inch)
Weight	1.1 kg. (2.5 lbs.)
Depth Rating (MRU 333)	450 m (1500 Ft.) or 1,800 m (6,000 ft.) optional

MRU series includes software to display graphics and communications for simple interface.

The MRUs uses 3 axis accelerometers, 3 axis gyros and 3 axis magnetic sensors integrated with dual embedded micro-processors to produce accurate pitch, roll and heave information in an industry standard format.

The MRU 333G adds an internal GPS receiver and integrates GPS position with heading and speed to correct acceleration for heading changes. This improves settling following turns and removes errors in heave due to heading changes. A built in true north world magnetic map is used to produce a true north output. A "learning" software routine adjusts the MRU series to the boat characteristics to further improve overall accuracy.

The MRU Series is ideal for bathymetric single and mutli-beam survey systems, underwater vehicles, ship stability, and sub-bottom profiling and dredge monitoring operations.

MRU 333 Performance Specifications

3658420

3658360-

3658400-	Pitch Roll and Heading	Resolution Degrees	Accuracy Degrees Static	Range Degrees	Repeatability Degrees	
	Pitch	0.02	0.2	+/- 180	0.05	
	Roll	0.02	0.2	+/- 180	0.05	
	Heading	0.10	0.3	360	0.10	
3658380-	Update Rate All Parameters		ters	50 per second		
Section 11 Languages (1996)	Heave	Heave	Maximum	Range	Drift	

Н	leave	Heave Amplitude Accuracy	Maximum Update Rate Samples /Sec.	Range Meters	Drift (T = 10s)
Μ	1RU 333	5 cm 0-10 sec +/- 5%	50	5	<5 cm (uncorrected)

732960 732900 732920 732980 733000 733040



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