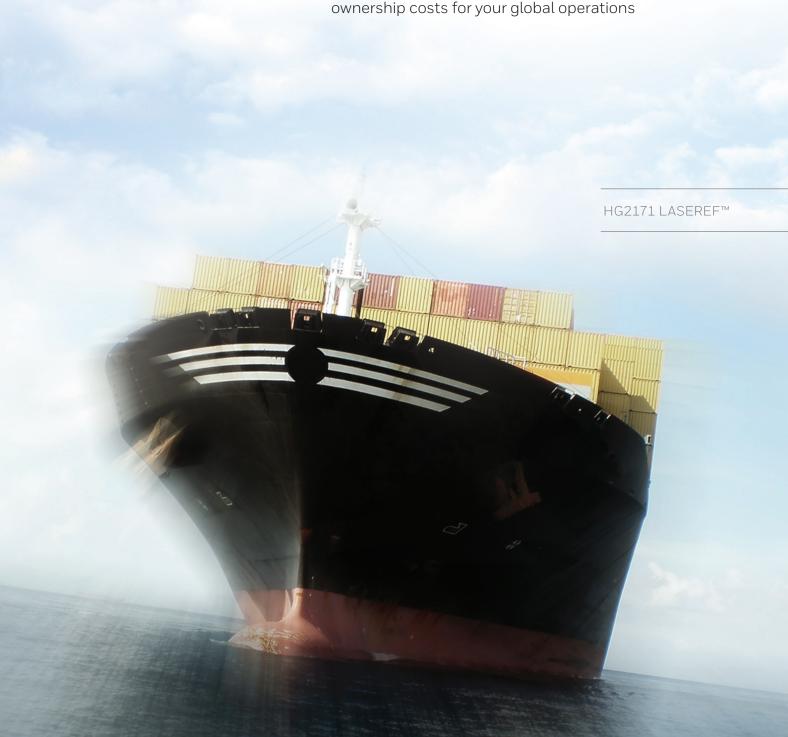
Laseref[™] Marine Attitude & Heading Reference Unit Increasing reliability and reducing

ownership costs for your global operations



HONEYWELL HG2171 LASEREF™ MARINE ATTITUDE & HEADING REFERENCE SYSTEM

Product Description

Honeywell's Laseref™ Marine Attitude and Heading Reference System (AHRS) is a self-contained reference system that provides high accuracy heading, pitch, roll, heave, and rate-of-turn data. This system utilizes a Hybrid Kalman filter to seamlessly integrate inertial measurements with GPS to provide increased accuracy performance.

The Laseref™ Marine AHRS is based on the highly successful commercial aviation Laseref™ product family, with over 300 million operating hours and 60,000 deliveries. This system utilizes Honeywell's high accuracy Ring Laser Gyros and Quartz Accelerometers, which eliminates the need for expensive maintenance, calibration, and refurbishment. With a mean time between failures (MTBF) of over 60,000 hours, the Laseref ™ Marine AHRS has an expected lifetime of 3-4 times longer than mechanical gyros. Users will benefit from a low lifetime ownership costs.

Key Attributes

- **Demonstrated Reliability** 3-4 times longer lifetime than mechanical gyros
- **Solid-State Sensors** Eliminates need for expensive calibration refurbishment, and routine maintenance
- Operator-Free Alignment in Motion Feature Minimizes crew workload and operational delays
- Web Interface Allows for simple installation and controls
- Commercially Exportable Components

 Available for purchase nearly anywhere in the world
- Hassle-Free Upgrades Simple conversions to a Marine
 Inertial Navigation System
- Small Size and Weight Ideal for virtually all marine applications
- **Electronic Mounting Tray Alignment** Reduces installation costs
- Ethernet and National Marine Electronics Association (NMEA) –
 Common interfaces for simple connectivity



Applications

- Multibeam Survey
- Large Vessel Guidance
- Platform Stabilization
- Dynamic Positioning
- Autonomous Underwater Vehicles
- Remotely Operated Vehicles

Performance

1 errormance	
True heading (GPS Aided)	0.05 deg (1 6)
Pitch/Roll	0.01 deg (1 6)
Heave 5 cm or 5% (Wh	ichever is greater)
Physical Characteristics	
Size6	.4H x 6.5W x 6.4L
Weight	9.1 lbs
Power	
Power (Typical)	18 Watts
Environmental	
Temperature Operating (Min)	-40° C
Temperature Operating (Max)	70° C
Operation	
Alignment Time	
MTBF	> 60,000 hrs
Vibration	2.2 g sine
Interfaces	
I/O Hardware	
I/O Protocols	NMEA + Others
Certification	
♦ IMO, Wheelmark	Certified
Technology	
Gyro Technology	
Accel Technology	Quartz

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