

**Honeywell**

## **LASEREF VI MICRO INERTIAL REFERENCE SYSTEM**

Reduce operating costs with RNP precision guidance.



# Laseref VI

Simplify crew workload and reduce maintenance and operational costs.

Honeywell's Laseref VI micro inertial reference system (IRS) has been designed to simplify pilot workload while dramatically reducing installation time, weight, size, power, and cost. This revolutionary design is based on flawless service from more than 50,000 commercial inertial reference systems in service around the world and is compliant with new ADS-B requirements.

## Benefits

- Reduces operational costs through a 50% reduction in box size and over a 30% reduction in both weight and power consumption compared to similar systems
- Reduces installation costs and increases accuracy with electronic mounting tray alignment
- Reduces pilot workload through automatic mode control logic and automatic initialization
- Eliminates delays with automatic IRS alignment
- Reduces crew workload with in-motion inertial alignment and automatic realignment between flights made possible through GPS integration
- Reduces weight and operating costs by implementing passive cooling technology

## HIGH Integrity

To provide 100% availability of RNP 0.1 navigation performance and immunity to GPS outages, an optional Honeywell Inertial GPS Hybrid (HIGH) upgrade is available. HIGH combines raw measurement from each satellite in view from the MMR with a Kalman filter to provide a highly calibrated solution ensuring operators of their exact position. This capability is available for retrofit and forward-fit applications to maximize airline and route efficiencies.

## Find Out More

For more information on Honeywell's Laseref VI micro inertial reference system, visit [aerospace.honeywell.com](http://aerospace.honeywell.com)

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## Applications

COMAC C-919  
Mitsubishi MRJ  
Cessna Latitude, Longitude  
Irkut MS-21  
Boeing 787  
Bombardier (777X, CL-605, Challenger 350, Global 5000, C-Series)  
Dassault (F5X, F8X)  
Embraer (170, 175, 190, 195)  
Gulfstream (100, 150, 200, 250, 350, 450, 500, 500, 650, CAEW)

## Characteristics

Altitude	0.1 degree
Heading	0.4 degree
Position (inertial)	2 NM/PH
Position (hybrid)	12 Meters
Hybrid position coasting performance	>20 minutes @RNP 0.3 NM
Velocity (inertial)	8 knots
Velocity (hybrid)	0.25 knots
Software certification	DO-178B Level A
Hardware certification	DO-160E
Technical standard order (TSO)	C4c, C5e, C6d, C129a
In-service reliability	>50,000 MTBF
Interfaces	ARINC-429 I/O
Mounting tray	0.5 lbs
Size	6.5" x 6.4" x 6.4"
Weight	9.1 lbs
Power (typical)	20 watts
Cooling	Passive
Accelerometer sensor technology	Quartz
Gyro sensor technology	Digital ring laser

Accuracy two sigma or 95%

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