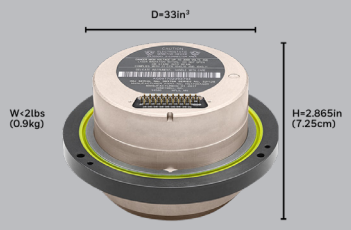
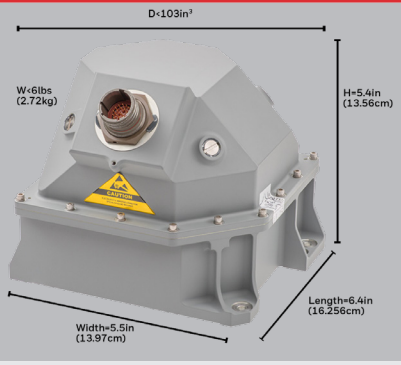
HONEYWELL'S RLG BASED IMUS

Delivering 80,000 non-ITAR IMUs per year.

	HG1700 IMU	HG5700 IMU	HG9900 IMU
			
Overview	The HG1700 is a high-performance tactical-grade Inertial Measurement Unit (IMU) designed to meet the needs of a broad range of guidance and control applications.	The HG5700 is an IMU product that bridges the performance gap between HG1700 and HG9900, fulfilling a need for better performance than HG1700 at a smaller size than HG9900.	The HG9900 is a high- performance navigation-grade Inertial Measurement Unit (IMU) designed to meet the needs of a broad range of navigation, guidance and control applications.
Features	• Tactical three Ring Laser Gyroscopes (RLG) • Three quartz Resonating Beam Accelerometers (RBA) • Interface protocols: Synchronous Data Link Control (SDLC), Asynchronous serial, and Gated clock • Radiation hardened variants are available	• Near-Nav three Ring Laser Gyroscopes (RLG) • Three quartz Vibrating Beam Accelerometers (VBA) • Interface protocols: Synchronous Data Link Control (SDLC), Asynchronous serial, and Gated clock INS (Future Growth) • Initialization / Transfer Align • North Finding / Keeping • Multiple aiding source input: GPS, Baro, Mag, DVL, etc • Flight Control & Navigation Output • PVT, LOS & UTC capable	• Honeywell GG1320 Digital Ring Laser Gyros • Honeywell QA2000 Accelerometers • Honeywell Smart Inertial Electronics • Interface protocols: Synchronous Data Link Control (SDLC) RS-422, Non-SDLC with and without differential strobe output, SDLC clock output or input
Gyro Error Coefficients (1σ)	Bias: 1°/HR Walk: 0.125°/√HR Scale Factor: 150 PPM	Bias: 0.035°/HR Walk: 0.006°/√HR Scale Factor: 40 PPM	Bias: 0.0035°/HR Walk: 0.002°/√HR Scale Factor: 5 PPM
Accelerometer Error Coefficients (1σ)	Bias: 1 mg Scale Factor: 300 PPM	Bias: 0.035 mg Scale Factor: 120 PPM	Bias: 0.025 mg Scale Factor: 100 PPM
Thermal Operating Range	-54°C to +85°C	-54°C to +85°C	-40°C to +71°C
Input Voltage	+5V, +15Vdc input	+5V, +15Vdc input	+5, +/-15Vdc input
Gyro Operating Range	Standard: +/- 1074°/sec Additional Options: from +/- 358°/sec to +/- 1620°/sec	+/- 1074°/sec	+/- 550°/sec
Accelerometer Operating Range	Standard: +/- 37 g Additional Options: from +/- 12 g to +/- 70 g	+/- 37 g	Standard: +/- 20 g Additional Options: +/- 1.4 g, +/- 30 g, +/- 50 g, and +/- 70 g

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