

SPAN Inertial Measurement Units (IMUs)

Mid Performance IMUs



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HG1900

The IMU-HG1900 incorporates an HG1900, which is a MEMS gyro based IMU manufactured by Honeywell. Economical, robust and small in size, the low power HG1900 provides high end tactical grade performance for commercial and military guidance and navigation applications. The HG1900 is a commercial product that can be licensed under the U.S. Department of Commerce for customers outside the United States.

Dimensions: 130 x 130 x 125 mm

Weight: 2.5 kg



OEM-HG1900

The HG1900 is a MEMS gyro based IMU manufactured by Honeywell. Economical, robust and small in size, the low power HG1900 provides high end tactical grade performance for commercial and military guidance and navigation applications. The OEM-HG1900 is a commercial product that can be licensed under the U.S. Department of Commerce for customers outside the United States.

A NovAtel Universal IMU Controller (UIC) is required to integrate an OEM-HG1900 with NovAtel receivers.

Dimensions: 92.7mm dia max x 79.1 mm h

Weight: <460 g



KVH-1750

The IMU-KVH1750 offers tactical grade performance in a compact and rugged package with minimal power consumption. It contains Fiber Optic gyros (FOG) and MEMS accelerometers.

Dimensions: 88.9 mm dia max x 73.7 mm h

Weight: <700 g



μ IMU-IC

The μ IMU-IC features Northrop Grumman Litef GMBH's proven inertial measurement technology offering exceptional performance when paired with a NovAtel SPAN receiver.

Dimensions: 130 x 130 x 115

Weight: 2.6 kg



HG1700 AG62

The HG1700 AG62 is a tactical grade IMU from Honeywell containing servo accelerometers and ring-laser gyros. With a Gyro Bias of 5 degrees per hour, the economical HG1700 AG62 offers good performance. The HG1700 AG62 is available in the Universal IMU Enclosure (shown) or the SPAN HG Enclosure.

The HG1700 AG2 is a commercial product that can be licensed under the U.S. Department of Commerce for customers outside the United States.

Universal IMU Enclosure

Dimensions: 168 x 195 x 146 mm

Weight: 4.5 kg

SPAN IMU Enclosure

Dimensions: 167 x 193 x 100 mm

Weight: 3.4 kg

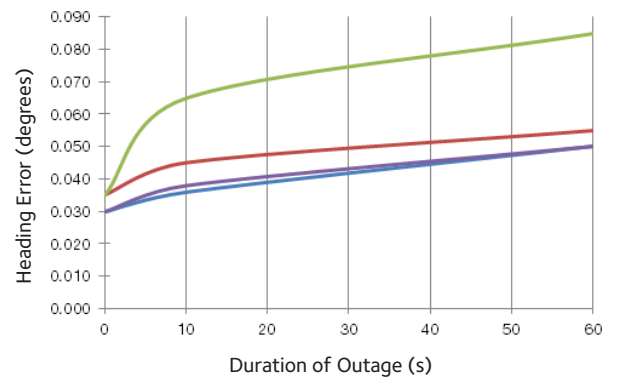
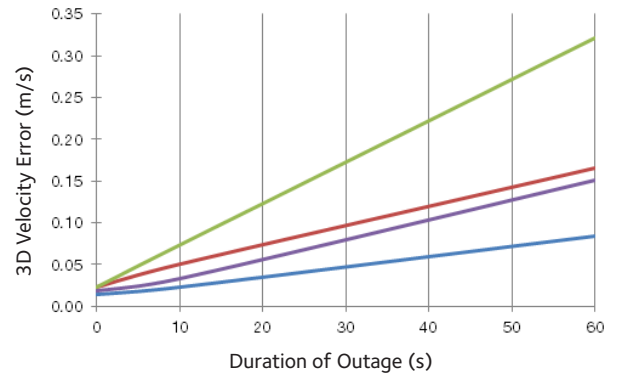
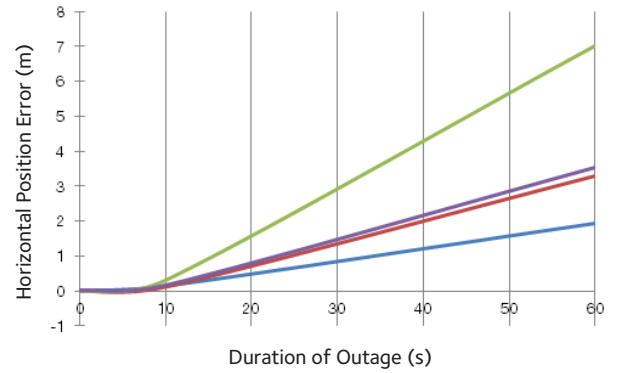
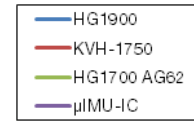
IMU SPECS

Power Consumption	Export Control	Data Rate	Gyro Technology	Available as OEM
8 W (typical)	Commercial	100 Hz	MEMS	+
<3 W	Commercial	100 Hz	MEMS	
8 W (max)	Commercial	200 Hz	FOG	
13 W (typical)	Commercial	200 Hz	MEMS	+
8 W	Commercial	100 Hz	RLG	+

SPAN SYSTEM ATTITUDE ACCURACY (DEGREES)¹ RMS

RTK ²			Post Processed ³		
Roll	Pitch	Heading	Roll	Pitch	Heading
0.010	0.010	0.030	0.005	0.005	0.011
0.010	0.010	0.030	0.005	0.005	0.011
0.015	0.015	0.035	0.005	0.005	0.017
0.010	0.010	0.030	0.005	0.005	0.009
0.012	0.012	0.035	0.004	0.004	0.009

SPAN PERFORMANCE



1. When SPAN is in RTK mode.
2. 0 seconds outage on land vehicle application.
3. RMS, incremental error growth from steady state accuracy. Computed with GPS, RTK trajectory using Waypoint Inertial Explorer.