

## POLHEMUS MOTION TRACKING TECHNICAL COMPARISONS - TRACKING PERFORMANCE

SPECIFICATIONS	FASTRAK®	PATRIOT™	LIBERTY™	LIBERTY™ LATUS™ (wireless)	PATRIOT™ WIRELESS	G4™ (wireless)
UPDATE RATE	120 Hz (divided by number of sensors)	60 Hz per sensor	240 Hz per sensor	188 Hz (1-8 markers) 94 Hz (9-12 markers)	50 Hz (1-4 markers)	120 Hz per sensor
ANGULAR RANGE	All attitude	All attitude	All attitude	All attitude	All attitude	All attitude
LATENCY	4 ms	18.5 ms	3.5 ms	5 ms	20 ms	Less than 10 ms in optimal RF communication conditions
OPERATING TEMPERATURE <i>(minimum to max.)</i>	10°C to 40°C	10°C to 40°C	0°C to 50°C	0°C to 50°C	10°C to 40°C	10°C to 40°C
OPERATING VOLTAGE	100-240 VAC 50-60 Hz	100 - 240 VAC 50-60 Hz	100 - 240 VAC 50-60 Hz	100 - 240 VAC 50-60 Hz	100 - 240 VAC 50-60 Hz	Source: 100-240 VAC; 50/60 Hz; RF Dongle: USB powered 5 volt, 30 ma; Hub: internal rechargeable battery included
CABLE LENGTH <i>(contact us for custom lengths)</i>	10 ft or 20 ft (approx. 3 m or 6.1 m)	10 ft or 20 ft (approx. 3 m or 6.1 m)	10 ft or 20 ft (approx. 3 m or 6.1 m)	Receptor 60 ft or 120 ft (approx. 18 m or 37 m)	Receptor 20 ft or 60 ft (approx. 6.1 m or 18 m)	2 ft, 4 ft or 6 ft (approx. 0.61 m, 1.22m or 1.83 m)
SOFTWARE TOOLS	Microsoft Windows® GUI & SDK/Linux® GUI	Microsoft Windows® GUI & SDK/Linux® GUI	Microsoft Windows® GUI & SDK/Linux® GUI	Microsoft Windows® GUI & SDK/Linux® GUI	Microsoft Windows® GUI & SDK	Microsoft Windows® GUI & SDK/Linux® GUI & Full Linux Support
INTERFACE	RS-232 or USB 2.0	RS-232 or USB 2.0	RS-232 or USB 2.0	RS-232 or USB 2.0	RS-232 or USB 2.0	Proprietary RF link via USB
DEGREES-OF-FREEDOM	6DOF	6DOF	6DOF	6DOF	6DOF	6DOF
NUMBER OF SENSORS	1-4 sensors	1-2 sensors	1-16 sensors	1-12 wireless markers	1- 4 wireless markers	3 sensors per hub
STATIC ACCURACY POSITION	0.03 inches RMS (0.76 mm)	0.06 inches RMS (1.52 mm)	0.03 inches RMS (0.76 mm)	0.1 inches RMS (2.54 mm) (1 marker at 30 inches)	0.3 inches RMS (7.62 mm) (1 marker at 30 inches)	0.08 inches RMS (2.0 mm)
STATIC ACCURACY ORIENTATION	0.15° RMS	0.40° RMS	0.15° RMS	0.50° RMS (1 marker at 30 inches)	1.0° RMS (1 marker at 30 inches)	0.50° RMS