



NEWS RELEASE

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GRS-1 available at GeoShack

World's first hand-held GNSS integrated rover system

DALLAS, TX – October 12, 2009 - **GeoShack** announces Topcon Positioning System's (TPS) new GRS-1, the world's first fully integrated dual-constellation, network-enabled RTK rover system. It is an all-in-one handheld GNSS receiver and field controller with high-speed processor, increased memory, built-in camera, compass and bar code reading function.

David Owen, Vice President said, "Integrated into the new GRS-1 system is an SD memory card slot, optional internal GSM or CDMA modem, and wireless connectivity via Wi-Fi and Bluetooth technology.

The GRS-1 (Geodetic Rover System) was designed with two primary system design goals: Smaller size and weight, and lower-than-expected cost. According to Owen, "The GRS-1 "packs all the power of a full GPS + GLONASS dual-frequency receiver, cellular modem and Windows PC into a very small, very powerful package."

Designed primarily as a GPS network rover receiver, the GRS-1 "provides a small, lightweight rover and a price to fit any budget," he said. "The new receiver has DGPS capability with internal L1 antenna for GIS and navigation, add the PGA-1 external antenna and connect to your local GNSS network via the internal modem, and instantly move to dual frequency, dual constellation GNSS centimeter RTK accuracy. The GRS-1 can also be used as a static post processed receiver system."

The GRS-1 uses the Windows Mobile™ 6.1 operating system to run TopSURV, Topcon's popular surveying software. TopSURV 7.2 adds new features and functions that are unique to the GRS-1. The receiver and field controller also has a 3.7 inch, touch screen display and its rugged construction is rated to stand a one-meter drop.

Owen said, "With the GRS-1 network rover, no additional modem or equipment is needed . . . it's all built in. The user can access a RTK network for sub meter to sub foot mapping. By attaching an easy-to-connect external antenna, centimeter accuracy is instantly achieved."

ABOUT GEOSHACK

GeoShack operates under the concept, "Everything for Jobsite Accuracy". At each location contractors, farmers and surveyors can find a wide selection of construction lasers, total stations, robotic instruments, GPS Survey systems, optical instruments, 2D & 3D machine control systems, GPS based agricultural guidance and autosteer systems, variable rate control technology, software for a multitude of applications, and a complete line of supplies and accessories. GeoShack is the retail division of GeoShack North America, Inc., an organization with sales professionals and technical service and support specialists in 16 major market areas in North America with over 120 employees.