

Hemisphere GNSS Debuts RTK Base & Rover and Site Management Software



At [CONEXPO-CON/AGG 2017](#), Hemisphere GNSS introduced the [C321 GNSS Smart Antenna and SiteMetrix Site Management Software](#). When paired with SiteMetrix, the next-generation multi-frequency, multi-GNSS C321 antenna can be used as an all-in-one construction base and rover site controller. Designed specifically for harsh construction environments, C321 adds another system component and empowers heavy equipment manufacturers to deliver their own machine control and guidance solutions to their customers.

The all-new C321 combines Hemisphere's Athena GNSS engine and Atlas L-band correction technologies with a completely new webUI. The ruggedized antenna is designed for the most challenging environments and meets IP67-standard requirements.

Powered by Athena GNSS engine, the C321 provides best-in-class, centimeter-level RTK. Athena is developed to excel in virtually every environment where high-accuracy GNSS receivers can be used. Tested and proven, Athena's performance with long baselines, in open-sky environments, under heavy canopy, and in geographic locations experiencing significant scintillation is nothing short of cutting edge.

Atlas GNSS Global Corrections

The C321 ships pre-configured to test-drive corrections from Hemisphere's Atlas L-band corrections service. The bundled solution provides users worldwide with an easy way to utilize Atlas, including the worldwide H10 service offering 8 cm 95% accuracy (4 cm RMS). C321 also uses Hemisphere's aRTK technology, powered by Atlas. This feature allows the receiver to operate with RTK accuracies when RTK corrections fail. If the C321 is Atlas-subscribed, it will continue to operate at the subscribed service level until RTK is restored.

SiteMetrix Site Management Software

Hemisphere's SiteMetrix is a complete 3D/GNSS site management and inspection tool, implementing most grading, mining, and landfill applications. SiteMetrix provides cut and fill information across the job site in real-time moving easily between a vehicle to a man-rover pole. SiteMetrix supports most GNSS receivers by offering the world's largest GNSS library.

Using SiteMetrix offers easy-to-use stakeout, collection, volume computations and reporting, and as-built points. Developed as versatile software, SiteMetrix provides an incredible amount of direct import files, including DWG, DXF, TN3, GC3, LN3, TIN, and GRD. With a customizable user interface, SiteMetrix can be as easy or advanced as necessary.

Agility and Technology Meets Iron

Manufacturers are looking for flexibility and price performance in existing system offerings or in new systems. According to Hemisphere the company is providing the world's first "full system OEM positioning solution toolkit" for building complete machine control and guidance systems with the announcement of the [GradeMetrix application software](#) and an array of compatible GNSS hardware components. These include [IronOne Rugged Display & Computer](#), [A326 Rugged GNSS Smart Antenna](#), Vector [VR500 Rugged All-in-One Smart Antenna](#), and [Vector VR1000 Rugged GNSS Receiver](#).