

Carlson NR3: New compact, lightweight GNSS Receiver

MAYSVILLE, Kentucky, U.S.A. (May 2019) — At its “Grow With Us” User Conference 2019, Carlson Software President and Founder Bruce Carlson introduced the Carlson NR3 network rover. Weighing in at just under two pounds, the NR3 delivers highly reliable GNSS RTK for land surveying, GIS, and other data collection uses.

Able to be used as a base or rover, the NR3 utilizes all four constellations – GPS, GLONASS, BeiDou, and Galileo – and provides triple-frequency tracking on GPS, GLONASS, and Galileo. Incorporating multipath and ionospheric detection, the NR3 maintains accuracy and continued operation despite shocks, vibration, or other interference.

Designed to work seamlessly with Carlson SurvCE or SurvPC and their popular new Hybrid+ feature, the NR3 is easy to mount and balance as it utilizes the optional Hybrid+ in Carlson SurvCE/PC that enables simultaneous interaction with GNSS and a Robotic Total Station.

“The NR3 is Carlson’s answer for a lightweight – just 1.8 lbs. – network rover that can also be used in a base rover setup with Carlson’s Listen-Listen service,” says Butch Herter, Carlson’s Director of Hardware Development. Unlike many of its network rover competitors, the NR3 is a four-constellation three-frequency receiver.

“It has hot swappable batteries and four come with the system that give it over a 20-hour runtime,” Herter adds, “and with the dual internal cell modem antennas, it maintains cell signal where others may not. When paired up with the Carlson CR2+ robot, it is the ideal companion receiver to use with the new SurvCE hybrid surveying system.”

Produced by Septentrio with Carlson specifications, the Carlson NR3 has an integrated 4G LTE cellular modem, plus WiFi and Bluetooth for modern wireless capabilities and is made to perform exceptionally in locations with bad visibility or interference. In addition, Carlson’s Listen-Listen service allows Base/Rover operations via the cellular modem for better correction transmission ranges compared to traditional terrestrial UHF radios.

For more information about the Carlson NR3, contact your local Carlson representative or your local Carlson dealer, or email Carlson at sales@carlsonsw.com.

Carlson Software Inc. specializes in CAD design software, field data collection, laser measurement, and machine control products for the civil engineering, surveying, GIS, construction, and mining industries worldwide, providing one-source technology solutions for the entire project cycle. Carlson Software is headquartered in Maysville, Ky., U.S.A., with branch offices in Boston, Mass.; Almere, The Netherlands; Brisbane, Australia; Ottawa, Canada; and York, England.