Carlson NR3 Launches New Lightweight GNSS Receiver

At the company's 'Grow With Us' User Conference 2019, Carlson Software's 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.

Four-constellation three-frequency receiver

”The NR3 is Carlson’s answer for a lightweight 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, see here.

https://www.gim-international.com/content/news/carlson-nr3-launches-new-lightweight-gnss-receiver