

REFERENCE STATION SOFTWARE SUITE



Topcon's innovative GNSS Reference Station software

- SUPPORTS GNSS OPERATION
- SCALABLE SOLUTION IN BOTH FUNCTIONALITY AND GEOGRAPHIC COVERAGE AREA
- EASILY UPGRADED TO OPERATE FROM ONE TO HUNDREDS OF REFERENCE STATIONS
- COMMUNICATIONS TO REFERENCE STATIONS VIA INTERNET, MODEM, USB, OR SERIAL CONNECTION

As the applications of modern satellite positioning technology continue to expand, Topcon is dedicated to meeting these new challenges. A key component of the modern GNSS industry is the fixed reference station, and Topcon is proud to offer a new, innovative solution to meet this growing need; our new TopNET Reference Station software suite.



Topcon's concept is to provide a suite of TopNET products that offer a wide range of network functionality scalable from a single site to a large geographical area. Topcon's TopNET can be configured to offer complete control over a single CORS site or a network of CORS sites. Additional options include GPS+GLONASS RTK, or modeled data corrections – using information from all Reference Stations on the network, to reduce errors and improve precision and productivity.



Offices Worldwide

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku • Tokyo 174-8580, Japan
Phone: 3-3558-2520 • Fax: 3-3960-4214 • www.topcon.co.jp

Topcon Europe Positioning B.V.

Essebaan 11, 2908 LJ Capelle a/d IJssel • THE NETHERLANDS
Phone: 010-4585077 • Fax: 010-4585045 • www.topconeuropa.com

Topcon Corporation Beijing Office

Block A No.9, Kangding Street, Beijing Economic
Technological Development Area, Beijing 100176 • CHINA
Tel: +86-10-6780-2799 • Fax: +86-10-6780-2790



Topcon Positioning Systems, Inc.

7400 National Drive
Livermore, CA 94550
www.topconpositioning.com

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Key features of The TopNET Reference Station Software Suite:

- Supports GNSS operation
- Scalable solution in both functionality and geographic coverage area
- Easily upgraded to operate from one to hundreds of Reference Stations
- Reference Stations easily added to expand Network and geographic coverage area
- Functionality for Continuously Operating Reference Stations (CORS) to modeled network data corrections easily added
- Communication to Reference Stations via internet, modem, USB or serial
- Configuration of Reference Stations including remote firmware uploads
- Configuration of Site Parameters and options for data logging
- Automatic and manual file download from each Reference Station
- Automatic push to FTP site(s) of raw and/or RINEX data files
- Monitoring of satellite and site parameters
- Automated message sending on alarm via e-mail



A company or agency offering GNSS reference station services to their own employees or the surrounding community demand system flexibility without sacrificing security. With TopNET you can log, archive, and post raw data files, convert to RINEX, and upload native raw files and RINEX files to an FTP site, all under the security and control of a designated System Manager. The System Manager has full rights to control remote receivers, and can give full rights or subset of the controls to users in the field. The System Manager has full control over all aspects of the receiver and data logging.

A fully operational network system goes beyond just the software component. At Topcon, we are dedicated to offering a complete system configuration, along with the technical support staff to assure that your system is setup, configured, and operates properly. When considering a network system solution, make sure you get a complete package including software, hardware, and technical support and installation assistance.

GNSS Receiver Technology

Topcon offers the widest selection of GPS+GLONASS receivers in the industry, including one receiver designed specifically with operation in network systems in mind, the NET-G3. This receiver incorporates Topcon's advanced G3 tracking capability for improved performance and accuracy. With the addition of the GLONASS satellites to the existing NAVSTAR US satellites, the Topcon GPS+GLONASS system provides full 24 hour coverage where GPS only systems suffer from down time. With additional satellites overhead, operation in areas with numerous obstructions is also improved. Finally, the additional satellites offer a positive contribution to satellite geometry or DOP, and provide improved precision over GPS only systems.



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