

# Leica CrossCheck GNSS Reference Station Integrity Monitoring Service

GNSS  
Reference  
Station  
Network



Station #	Site Name #	Site Code #	Site Info	Last Change	X	Y	Z	Delta X	Delta Y	Delta Z	Results (1 Month)	Results (1 Year)
4074	4074 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4080	4080 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4081	4081 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4082	4082 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4083	4083 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4084	4084 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4085	4085 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4086	4086 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4087	4087 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4088	4088 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4089	4089 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+
4090	4090 (A)	38897214	123840	-10.011	-10.004	-8.882					+	+

Leica CrossCheck is a web based service for GNSS network coordinate calculation and integrity monitoring. Network reference station operators can access information on the stability of their reference stations via the Internet, ensuring they always have the highest quality coordinates for their network.

[www.crosscheck.leica-geosystems.com](http://www.crosscheck.leica-geosystems.com)

## Professional GNSS processing service

Whether setting up one reference station or a network of stations, accurate station coordinates are essential. Overtime, the coordinates of the GNSS reference stations can change unnoticed due to tectonic plate motion, seismic activity, land subsidence, changed antenna or damage to the station. Leica Geosystems offers a professional network coordinate calculation and integrity service for GNSS reference station operators. By ensuring they have up to date and accurate station coordinates, NRS operators can ensure they deliver the highest quality, corrections to their users.

- Single computation of coordinates of new stations
- Verify and validate coordinates of existing networks
- Near real time monitoring of site positions
- Fully automated service
- Results are available online in near real time and are presented in easy to understand format
- Messaging service warns of any significant movement or change
- Customized service for each project

- when it has to be **right**

**Leica**  
Geosystems

# Leica CrossCheck GNSS Reference Station Integrity Monitoring Service



## Benefits of Leica CrossCheck:

- Experts working at Leica Geosystems optimize the processing strategy for your project
- High accuracy coordinate calculation and network analysis
- Detection and warning of antenna movements or integrity issues in near real time
- Interoperable with all Leica and third party reference station software and hardware
- Accurate and validated coordinates provide basis for high quality corrections and positioning reference station users
- No investment in specialist GNSS processing expertise, software or infrastructure required

## Leica CrossCheck Provides:

- Highest accuracy of coordinates
- Highest GNSS processing standards based on Bernese GPS Software
- Results available online in a easy to understand format
- Single computation or continuous (e.g. daily) monitoring
- Delivery of coordinates in user specified datum
- Interoperability with a wide range of Leica and third party reference station software and receivers
- Customized solution

## Access the results online:

- Easy access to results through a standard web browser
- Clear and easy to understand presentation of processing results including site movements, troposphere estimates, site status and site metadata
- Range of graphics and reports including traffic light status, vector plots, time series and more

## Secure service:

- Secure user data storage
- No need to maintain your own IT infrastructure and software
- Physical and electronic security of data
- Protection against misuse via encrypted passwords

## Leica's Network Reference Station Services:

With Leica CrossCheck you can ensure that your reference stations have high accuracy coordinates and have the peace of mind that any movements of the stations will be detected. Improved coordinate quality has a flow on effect to all end users of the network and helps to get the best possible performance from network RTK processing software such as Leica GNSS Spider and software for online processing and GNSS data distribution, such as Leica SpiderWeb.

By outsourcing these specialist computations and analysis to Leica Geosystems team of highly trained engineers, you can concentrate your efforts and resources on providing a high quality, value added reference station service to your rover users and field teams.



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