SOKKIA

GSR2700 RSX
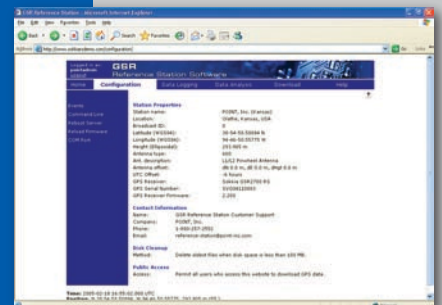## and GSR Reference Station Software

GPS + GLONASS

SOKKIA's GSR2700 RSX offers advanced reference station technology for the ultimate in surveying performance and efficiency. The system features a high-precision GNSS reference station offering GPS + GLONASS RTK corrections and raw data to multiple rover receivers for maximum satellite availability. It is compact, lightweight, and easy to set up in the home or office. It comes equipped with GSR Reference Station Software, giving you remote access to valuable GNSS data via the Internet twenty-four hours a day, seven days a week.

GSR2700 RSX Features

- State-of-the-art, high-precision, multi-frequency GNSS receiver with advanced multipath rejection
- Windows® XP based PC with 120GB hard drive
- Includes rubber support mounts to accommodate a desktop setup.
- Compatible with a variety of SOKKIA GPS/GNSS antennas
- Built-in Ethernet port for easy connectivity
- 1.5 GHz processor speed / 1GB RAM
- Equipped with CD drive

GSR Reference Station Software Features

- Provides data access twenty-four hours a day, seven days a week
- Accessible from any computer with an available Internet browser
- Create custom data collection sessions and log several sessions simultaneously
- RTK data accessible from any rover system capable of GPRS data links (i.e. NTRIP), such as SOKKIA's GSR2700 ISX
- Supports remote administration through an Internet connection
- Compatible with all SOKKIA GPS/GNSS receivers
- Can operate as an NTRIP caster — Accepts RTK data from other NTRIP sites and serves it from a single source
- Graphical plots of current and past satellite information (number, DOP, etc.)
- Customize user accounts to limit accessibility and monitor usage
- Remote upload of receiver firmware
- Log raw GNSS data in native format or industry-standard RINEX format
- Stream raw RTK data (RTCA, RTCM, CMR formats) through open TCP port — allows for simple, universal rover access with no authentication needed

Utilize with SOKKIA's GSR2700 ISX Fully Integrated High-Performance GNSS System for RTK surveying efficiency — no base required.

HERITAGE | QUALITY | SUPPORT | VALUE

GSR2700 RSX Specifications

Position Accuracy		
Static[1]	3.0 mm + 0.5 ppm (horizontal); 10.0 mm + 1 ppm (vertical)	
Channels		
	14 x L1 and 14 x L2 (GPS), 12 x L1 and 12 x L2 (GLONASS), 2 SBAS	
Time to First Fix		
Cold Start	50 sec (typical)	
Signal Reacquisition	0.5 sec L1 and 1.0 sec L2 (typical)	
Data Rates[2]	20 Hz	
Physical		
Weight	3.1 kg	6.8 lb
Dimensions (h x w x d)	4.4 cm x 48 cm x 25.4 cm	1.75 in x 19 in x 10 in
Environmental		
Operating Temperature[3]	0° C to +50° C	+32° F to +122° F
Humidity	0-95% relative humidity non-condensing	
Power		
Supply	110–220 VAC Power (nominal)	
Consumption	GNSS card and carrier board 1.95W (typical)	
	Input 100-240 VAC 50/60Hz, Output 12VDC/5A	
Ports		
Computer	1 x RJ-45 LAN port (GB LAN), 1 x Serial port, 1 x VGA port, 4 x USB 2.0 ports, 1 x RCA port (SPDIF or TV out), 1 x S-Video port, 3 x Audio Jacks: line-out, line-in and mic-in (Horizontal, Smart 5.1 Support)	
GPS	1 x Antenna (SMA), 1 x RS232, 1 x External Oscillator (SMA)	

GSR Reference Station Software Minimum System Requirements

Operating System	Microsoft Windows® XP Professional (Recommended for optimal performance)
Processor	Minimum: 1 Ghz x 86 processor
Memory	Minimum: 512GB RAM, 1GB
	Recommended Disk Space: 20GB free space for application and 100GB free space for data
Display	Super VGA monitor
Drives	CD or DVD drive
Input	Microsoft® Windows® compatible keyboard and mouse
Ports	One serial port
Browser	Microsoft® Internet Explorer 5.0 or higher, Netscape® 7.0 or higher, or Firefox 1.0 or higher
Network	Ethernet card

1. Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality.
2. Maximum data rate is dependent on number of active sessions and data being collected.
3. Maximum rate of change not to exceed 10° C (50˚ F) per hour.
Design and specifications are subject to change without notice.

THE SOKKIA DIFFERENCE – SOKKIA has been developing advanced products for surveying professionals around the world since 1920. We are very proud of our **heritage**. It is our mission to provide you with products of the highest **quality** so you can do the job right the first time – every time. And we **support** our products long after the sale is complete. With that kind of **value**, it is no wonder surveyors everywhere count on SOKKIA for their most important projects.

SOKKIA Worldwide

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