

SOKKIA

GSR2700 IS

Fully Integrated L1/L2 GPS System



Experience total freedom.





No cables. No worries.

SDR+ — Data Collection Software

The most flexible software of its kind on the market. Comes complete with a powerful RTK filtering technique for quality assurance, full customizable toolbar for unparalleled in-field productivity, and the industry's only fully "live" database and editing facility. It gives you total freedom to survey the way you want to!

Data Collection Devices

The rugged Allegro CX™ (Juniper Systems, Inc.®) is an ideal all-weather data collector for a variety of surveying applications. It offers a 400 MHz Intel® XScale® processor, integrated *Bluetooth* wireless technology, ergonomic design and efficient keyboard layout. The Allegro CX is available with color or monochrome display options and touch screen technology for excellent visibility in the field.

Spectrum Survey — Post-Processing Software

A comprehensive, easy-to-use, Windows-based software package that supports all phases of GPS survey operations. Spectrum Survey Suite combines Spectrum Survey and Planning into one package, providing all of the tools you need to successfully manage your project — from planning to processing, adjusting and analyzing GPS survey data.



GO IS system today! Visit www.sokkia.com for a SOKKIA GPS distributor near you!

GSR2700 IS



SOKKIA has been a global leader in advanced measurement solutions since 1920. Now we're proud to offer our latest product innovation to the surveying community. Introducing the GSR2700 IS — a fully integrated system designed for your most demanding survey jobs.

This is the one you've been waiting for. The GSR2700 IS consists of a dual-frequency GPS receiver, antenna, memory, batteries, internal data link for RTK surveying — and *Bluetooth*[®] wireless technology — all wrapped up in one compact and durable package!

And the GSR2700 IS is completely cable free! That means you're free from hassle and free to complete your most important jobs faster and more efficiently than ever.

System Features

The GSR2700 IS system was designed with the modern surveyor in mind. It's fast, accurate and reliable. So you'll get the job done on time — every time.

Fully integrated design

A survey-grade, dual-frequency receiver, integrated data link, Bluetooth wireless technology, antenna, memory and batteries — all in one compact enclosure.

Bluetooth wireless technology

Enjoy totally wireless data transfer. No more cables to sort through, connect and disconnect. That means you'll have more time for the surveying business at hand.

Voice Messages

The GSR2700 IS is the only integrated receiver on the market that offers voice messages to indicate the receiver status during field operation.

Multiple Configurations

Functions ideally as a rover for RTK applications, but can also be used as an RTK base or for static surveys.

Lightweight, Rugged Design

This durable receiver weighs just 1.8 kg (3.9 lbs.) and can withstand a pole drop of 2.0 m (6.6 ft.). Magnesium alloy housing provides unparalleled protection from dust and water.

Easy to Operate

Just turn it on and go. Simple single-button operation and LED indicators for battery life, satellite tracking status, remaining memory and occupation timer.

Expandable Memory

Comes standard with 64 MB of memory for more than 500 hours of uninterrupted surveying. Options up to 2GB.

Complete System

Includes GSR2700 IS receiver with revolutionary new SDR+ data collection software and Spectrum Survey Suite Post-Processing software, *Windows*[®] CE data collector and rugged, field-ready carrying case.

Internal Radio

Includes an internal UHF or GSM/GPRS radio option.



An eye on the future —

SOKKIA is preparing for future GPS system enhancements, such as L2C and L5. When future satellites begin broadcasting these new signals, an upgrade to the GSR2700 IS will be available, which will allow access to all GPS signals.

Order your complete GSR2700 IS

GSR2700 IS Specifications

Position Accuracy¹		Physical	
Static ²	3.0 mm + 0.5 ppm (horizontal). 10.0 mm + 1 ppm (vertical).	Enclosure	Magnesium alloy housing.
Rapid Static ²	5.0 mm + 1 ppm (horizontal). 10.0 mm + 1 ppm (vertical).	Weight (no internal radio)	1.6 kg (3.5 lbs).
Kinematic, Stop-and-Go ²	10.0 mm + 1 ppm (horizontal). 20.0 mm + 1 ppm (vertical).	Weight (with internal radio)	1.8 kg (3.9 lbs).
RTK ³	10.0 mm + 1 ppm (horizontal). 20.0 mm + 1 ppm (vertical).	Size	22.5 cm x 10.5 cm (8.9 in x 4.1 in).
Differential (DGPS)	WAAS/EGNOS: 0.8 M CEP.	Environmental	
Latency	0.02 sec (typical).	Operating Temperature	-20° C to +65° C (-4° F to +149° F).
Stand-alone Position	1.5 m CEP.	Storage Temperature	-40° C to +85° C (-40° F to +185° F).
Channels	12 x L1 and 12 x L2 with full code and carrier.	Humidity	100% condensing.
Time to First Fix		Dust and Waterproof	IP67. Complete protection against dust ingress. Protected against immersion up to 1.0 m (3.3 ft).
Cold Start	50 sec.	Shock ⁵	2.0 m pole drop (6.6 ft).
Warm Start	40 sec.	Communication Ports	2 x RS232, 1 x USB, 1 x Bluetooth, 1 x internal radio.
Hot Start	30 sec.	RTK Initialization	3-10 sec (typical) based on satellite constellation and baseline length. ⁶
Signal Reacquisition	0.5 sec L1, 1.0 sec L2.	Power Requirements	
Data Rate	20 Hz.	Batteries	Internal batteries standard, external batteries available.
Receiver Technology	PACT™ technology for high accuracy GPS measurement and multipath rejection.	Consumption	<5 W using internal radio.
Interface		Power Input	External +9 VDC to +18 VDC. Internal +10.8 VDC.
Operation	Single-button operation for power, receiver reset and clear memory.	Port	1 x external power port.
Display	LED display status indicators.	Operating Time	
Status Indicators	Receiver health, battery life, satellites tracked, available memory, occupation timer, communication status.	Rover	10 hours with internal batteries and internal UHF radio.
Audible Indicators ⁴	Audible notification for receiver status information.	Static	14 hours with internal batteries and no internal radio.
Memory	Internal 64 MB standard. Options up to 2 GB.	Standard Input/Output	RTCA, RTCM, CMR, CMR+, NTRIP, NMEA, 1 PPS (out), mark-in.
Memory Life	500 hours at 10-second interval (6 satellites).	<ol style="list-style-type: none"> 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. 95% confidence level. 3. 1 sigma. 4. English, Spanish, Japanese, French and generic sounds available. Audible notifications can be disabled. 5. Shock specifications based on receiver without cables attached. 6. RTK initialization time based on unobstructed observing conditions, 7 satellites and a baseline length less than 5.0 km. 	
Antenna	Internal GPS antenna (L1/L2) with Pinwheel™ Technology and multipath rejection equivalent to choke ring antenna.		
Radio Link	Optional internal UHF or GSM/GPRS radio.		
UHF	380-470 MHz. Transmit and Receive (Tx/Rx).		
GSM/GPRS	850/1800 MHz or 900/1900 MHz band.		

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