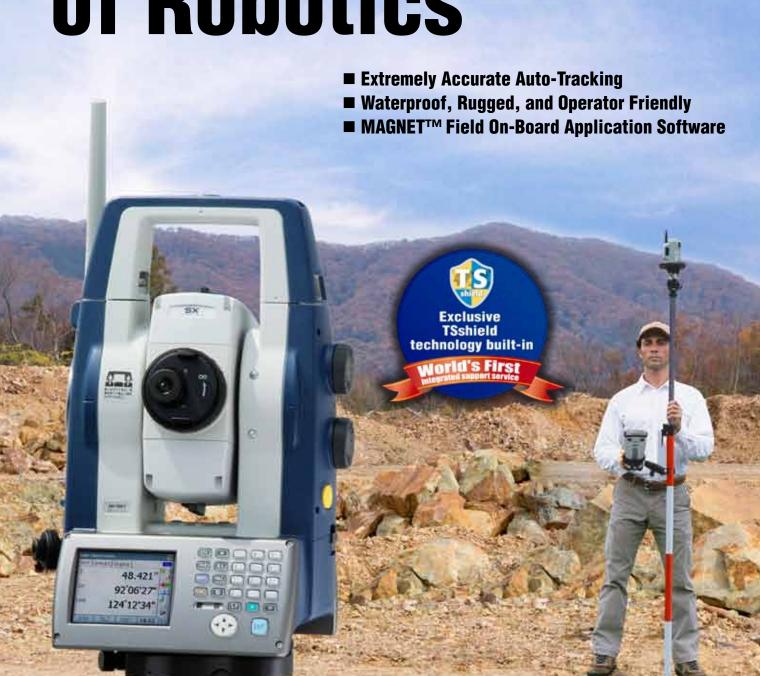


SX Series

Precision Robotic Total Station

The New Definition of Robotics



www.sokkia.nt-rt.ru



По вопросам продаж и поддержки обращайтесь:

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Reliable Tracking. Accurate Measurement.

■Extremely Accurate Auto-Tracking



Incorporating the industry's most advanced laser and image processing technologies, the SX offers market leading prism tracking capability and enhanced prediction of prism movement. The SX accurately locks and tracks a moving prism In any jobsite environment.

■RED-tech Technology Reflectorless EDM

- · Fast distance measurement of 0.9s regardless of object.
- Reflectorless operation from 30cm to 1,000m.*
- Coaxial EDM beam and laser-pointer provide fast and accurate aiming.

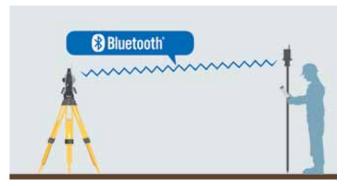
*With Kodak Gray Card white side (90% reflective). Brightness level at object surface: ≤500 lx.

■Advanced Angle **Measurement System**

SX features Sokkia's original absolute encoders that provide long-term reliability in any job site condition. Dual-axis compensator ensures stable measurements even when setup on uneven terrain.



■Long-range Data Communication



- The SX series of total stations features Bluetooth® Class1 wireless technology for reliable data communications.
- All SX data is instantly available at the *Bluetooth*-equipped controller.
- Wireless communication range may vary depending on obstruction and other environmental

■RC-PR5 Remote Control System



The RC-PR5 On-Demand Remote allows for rapid prism search. A built-in directional sensor monitors the prism movement so the SX turns left or right whichever direction is closer.

Cloud-based Solutions for Precise Positioning*

Advanced six-prism configuration provides unsurpassed measurement precision. ATP1 fits a range pole; ATP1S sliding prism is designed for a pin pole.



ATP1 360° Prism



ATP1S Sliding Prism



^{*} Red fan beam image is for explanation purposes only. The actual search beam is an eye-safe Class 1 invisible laser.

■Waterproof, Rugged, and Operator Friendly

- IP65 dustproof / waterproof rating.
- · Metal chassis and heavy duty handle.
- Standard usage temperature range -20 to +50°C.



- New star key [★] instantly brings up functions.
- Trigger key lets you take a series of measurements without removing your eye from the telescope.
- Control panel consists of 10-key pad with color LCD touch screen display.
- USB type A / mini B ports as well as serial ports.



 Green / Red telescope guide lights provide efficient guidance in a range up to 150m.



■MAGNET[™]

Cloud-based Solutions for Precise Positioning

MAGNET™ is a software family that uses the "cloud" to seamlessly connect the field and office for data exchange, communications, asset tracking and more.

Real-time connections. When you need it. Where you need it.

■ MAGNET™ Field

Data collection, stakeout, roads, and coordinate geometry.





World's First integrated support service

■TSshieldTM

Every SX total station is equipped with a telematics-based multifunction communications module providing the ultimate security and maintenance capabilities for your investment.

If an activated instrument is lost or stolen, you can send a coded signal to the instrument and disable it – Your total station is secure anywhere in the world!

And, in the same module, you have daily connectivity to cloud-based Sokkia servers that can inform you of available software updates and firmware enhancements.

*For more detail of TSshield, please refer to the TSshield's leaflet.





Precision Robotic Total Station

Product Type		Auto-Tracking Model			
Model		SX101T	SX103T	SX105T	
Rotation Speed / Auto-Tracking Speed		85°/sec (at 20°C) / 20°/sec	<u>'</u>	<u>'</u>	
Operating Range		ATP1/ATP1S 360° Prism: 2 to 600m (6.6 to 1,969ft.), CP01 mini prism: 1.3 to 700m (4.3 to 2,297ft.),			
		OR1PA mini prism: 1.3 to 500m (4.3 to 1,640ft.) , AP prism: 1.3 to 1,000m (4.3 to 3,281ft.)			
Angle Measurement					
Minimum Reading		0.5" / 1"	1" / 5"		
Angle Measurement		1"	3"	5"	
Tilt Compensation		Dual Axis, Compensation Range: ±6'			
Distance Measurement			-		
Prism	Measuring Range	ATP1/ATP1S 360° Prism: 1.3 to 1,000m (4.3 to 3,281ft.), CP01 mini prism: 1.3 to 2,500m (4.3 to 8,200ft.),			
		OR1PA mini prism: 1.3 to 500m (4.3 to 1,640ft.) , AP prism: 1.3 to 6,000m (4.3 to 19,685ft.) under good conditions*1			
	Accuracy	±(1.5mm + 2ppm x D) mm (D=measuring distance in mm)			
Reflective Sheet Target	Measuring Range*3	1.3 to 500m (4.3 to 1,640ft.) with RS90N-K reflective sheet			
	Accuracy*3	±(2mm + 2ppm x D) mm			
Reflectorless	Measuring Range*2	0.3 to 1,000m (1 to 3,281ft.) under good conditions*1			
	Accuracy*2	±(2mm + 2ppm x D) mm			
Interface and Data man	nagement				
Operating System / Processor		Microsoft Windows® CE 6.0			
Display		3.5in. / Transmissive TFT QVGA color LCD			
Memory		500MB internal memory, USB flash memory (up to 8GB)			
Interface		USB2.0 (Type A/mini B) / RS-232C			
Wireless Communicatio	n				
Bluetooth® Class 1		Communication range: 600m (1,969ft.)*4			
General					
Dust/Water Protection		IP65 (IEC 60529:2001)			
Operating Temperature		-20°C to +50°C			
Laser Pointer		Coaxial red laser pointer using EDM measuring beam, Class 3R laser			
Guide Light		Green and Red LED, Working range: 1.3 to 150m (4.3 to 492ft.)			
Size		W230 x D207 x H393mm (W9.1 x D8.2 x H15.5in.)			
Weight		Approx. 6.9kg (15.2 lb.)			
Power supply					
BDC70 Standard Battery		7.2V, 5.2Ah			
Operating Time		Approx. 4 hours*s			
Signal source / Laser outp	ut	Red laser diode (690nm) / R	eflectorless mode: Class 3R, Prism / Sl	heet mode: Class 1 equivalent	

RC-PR5 Remote Control System (Option of Auto-Collimating Model)				
Operating Range (slope distance)	Far mode: 2 to 300m (6.6 to 984ft.) / Standard mode: 2 to 100m (6.6 to 328ft.)			
Measuring Time	15 sec			

- *1 Condition 1: No haze with visibility about 40km, overcast with no heat shimmer.

 *2 Fine mode. With Kodak Gray Card White Side (90% reflective). Brightness level at object surface: ≤500 lx. When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions.

 *3 When the measuring beam's incidence angle is within 300 in relation to the reflective sheet target.

 *4 Wireless communication range may vary depending on obstruction and other environmental conditions.

 *5 In continuous face-1 and face-2 observations by using Auto-Collimating.

Standard Accessories

SX main unit

Lens cap

Battery (BDC70)

Lens hood

Battery charger (CDC68) Tool pouch

Power Cable

Screwdriver

Operation manual

Lens brush

USB memory Carrying case Adjusting pin x2

•Cleaning cloth

Carrying strap

Laser caution sign-board



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