SOKKIA

iX Series

Robotic Total Station





- **Fast UltraSonic motors**
- **30% smaller and lighter with more functionality**
- **TSshield™ global service**
- **Advanced UltraTrac technology**
- **3-year instrument warranty**
- **5-year motor warranty**

www.rusgeocom.ru

The Ultimate Total Station

The iX Series robotic total stations are a trimmed down, high-performance solution. You get the efficiency of a single-operator robotic system, the power of long range reflectorless measurements, and performance as a hybrid positioning solution.

Ultra-powerful

UltraSonic technology is the driving force for the iX Series. The UltraSonic motors are the thinnest, lightest, and most powerful on the market – providing you with the smoothest and most accurate prism-tracking possible. It's a difference you can see and hear immediately. With a rotation speed of 150° per-second, no matter how fast you move, or how many obstacles are in the way, you cannot outrun the iX.

Ultra-accurate

Our new UltraTrac technology gives you increased prism-tracking strength in all conditions. Advanced instrument algorithms deliver the confidence you need to move ahead. It's not that you lose line-of-sight, it's how fast you can reacquire and get back to work.

Ultra-slim and reliable

Featuring a remarkably slimmed down design, the compact system is a third smaller and lighter than previous robotic instruments, yet twice as fast. Without traditional gears or wearing parts, the UltraSonic motors are much more rugged and durable – lasting four times longer than previous total stations, and we back it with a five year warranty.



Field and Office. Connected.

- Complex 3D design layout made easy with MAGNET® Field data collection software
- Secure connectivity into MAGNET Enterprise global services for team collaboration
- Customizable reporting with intuitive processing within MAGNET Office Tools



Sharp display

- Larger and brighter color touch screen
- User-friendly interface with simple setup routines and hot keys
- Faster processor for improved response time



Versatile solution

- Hybrid Positioning™ with quick addition of GCX2 receiver
- Reflectorless out to 800 m
- Easy switch from GNSS to optical field measurement



Guaranteed reliability

- 3-year instrument warranty
- 5-year UltraSonic motor warranty
- TSshield™ for worry-free theft deterrence and firmware maintenance

Technology combined with a single purpose – production

- Lightweight and versatile, each iX robot is eligible for full promotion into a Hybrid Positioning solution through the addition of a purpose-built Sokkia GCX2 receiver.
- MAGNET Field software maintains constant duel connection from your field controller to your Sokkia iX robot as well as a sleek and compact GCX2 receiver, enabling field measurements in either or both from a simple tap of the screen.
- A true "never down" option stay productive in any project environment.



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Fast and powerful EDM
800 m non-prism and
6,000 m prism range

30%
smaller and lighter

TSshield™ global service
for auto maintenance and
theft deterrence

Integrated USB slot



Integrated Bluetooth®
and advanced LongLink™
communication technology

Advanced angle accuracy

UltraSonic motors
with rotation speed
of 150° per second

Rugged waterproof and
dustproof IP65 design

UltraTrac Technology

Bright 4.3 inch color
touchscreen display

24 key back-lit keyboard
with 4-way directional
arrow keys

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Compact Size

The iX Series is 30% smaller than previous robotic instruments, making it significantly lighter without skimping on functionality.



UltraSonic Motor

Despite it's smaller size, the iX Series packs an even more powerful motor. The gearless UltraSonic motor is more rugged and durable while boasting a rotation speed of 150° per second, making it the fastest robotic motor technology available.



iX Series

Robotic Total Station

SPECIFICATIONS

Telescope	
Resolving power	2.5"
Magnification	30x
Angle Measurement	
iX-502	2"
iX-503	3"
iX-505	5"
iX-1001	1"
iX-1003	3"
iX-1005	5"
Tilt Angle Compensation	
Compensation	Liquid 2-axis tilt sensor
Range	±6'
Distance Measurement	
Prism EDM Range iX-500 iX-1000	 4,000 m 6,000 m
Non-Prism Range iX-500 iX-1000	 600 m 800 m
Non-Prism Accuracy	2+2 ppm
Prism Accuracy iX-500 iX-1000	 2+2 ppm 1+2 ppm
Measuring Time	Fine: 0.9 sec Rapid: 0.6 sec Tracking: 0.4 sec
Communications	
LongLink™ interference-free communication	
USB 2.0 Slot (Host + Slave)	
RS-232C Serial	
General	
Display	Color touch TFT 800 x 480 display
Keyboard	24 keys with illuminator
Battery Operation	Up to 4 hours
Dust/Water Rating	IP65
Wireless Connection	Bluetooth® Class 1
Operating Temp	-20°C to 50°C
Turning Speed iX-500 iX-1000	 85° / second 150° / second
Tracking Speed iX-500 iX-1000	 15 20
Weight (No battery or tribrach)	4.8 kg

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