

**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**

# 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.

## 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 dual 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.



## 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



**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**



## Compact Size

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



## UltraSonic Motor

Despite its 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.



# SOKKIA

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# 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	4,000 m
iX-1000	6,000 m
Non-Prism Range	
iX-500	600 m
iX-1000	800 m
Non-Prism Accuracy	
	2+2 ppm
Prism Accuracy	
iX-500	2+2 ppm
iX-1000	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	85° / second
iX-1000	150° / second
Tracking Speed	
iX-500	15
iX-1000	20
Weight (No battery or tribrach)	4.8 kg

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