

Robotic Total Station iX Series





Robotic Total Station iX Series



The ultimate total station

With the iX-1200/iX-600, you get the efficiency of a single-operator robotic system, the power of long-range reflectorless measurements, and the versatility of Hybrid Positioning™, all in your choice of 1″, 3″ or 5″ iX-1200 models or 2″, 3″ or 5″ iX-600 models.

- · 10 Hz update rates for faster more efficient staking
- 150°/sec turning speed for exceptional productivity
- 30% smaller and lighter than any other Sokkia series robotic instrument
- Stay productive, stay confident with UltraTrac[™] prism lock technology
- GNSS hybrid ready so you can handle any job site
- Five-year UltraSonic motor warranty

Ultra powerful

Improved, intelligent Ultrasonic motor control provides smoother operation with less wear and tear. Ideal for survey or vertical construction, the solution is designed to stake or layout more points in less time even in challenging conditions.

Ultra accurate

UltraTrac™ prism tracking utilizes optical sensing combined with high-speed Ultrasonic motor control. Whether working at a distance or up close, the instrument maintains prism lock making you more productive in any environment.

Ultra productive

Combine and conquer with our hybrid solutions that utilize both GNSS and robotics so you can capture the shot, regardless of tree cover, loss of line of sight, or hard to reach points. Tackle any project in a fraction of the time.



- Fast and powerful EDM 800 m (2,624 ft) non-prism and 6,000 m (19,685 ft) prism range
- 2 Rugged waterproof and dustproof IP65 design
- 3 Bright color touchscreen display for on-board data collection
- Integrated Bluetooth® and advanced LongLink™ communication for up to 500 m (1,640 ft) fully robotic range
- 5 Direct Drive motors with a turning speed of 150° per-second
- 6 Advanced UltraTrac technology
- Raised multi-key functionality
- 8 Add the RC-PR5A remote for up to 600 m (1,968 ft) "single tap" prism re-acquisition

Increase your return on investment

An MEP contractor saved over \$200,000 in labor laying out over 128,000 points for sleeves and inserts over the span of a multiple building project with 109 floors. HPS Mechanical Case Study



The bottom line is that a team equipped with a robotic total station can be five times as fast as team armed only with a set of drawings and a measuring tape.

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Robotic Total Station iX Series



Workdays turned into workflows

Bridge the gap between your mobile workforce and office staff with faster, more efficient cloud-based MAGNET® Enterprise services.

- Use the Point Manager plug-in for Revit and AutoCAD for automated point creation
- Secure connectivity to your active job sites as well as heavy machines using Sitelink3D™
- Instant file sharing with both Autodesk® AutoCAD Civil 3D and Bentley MicroStation

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iX-1200/600



Accurate, powerful, and versatile

Built for job site mobility, the flagship iX series Ultrasonic robotic total station enables accurate and productive workflows for highly demanding survey and construction applications. Precisely lay out or survey more points in less time and improve quality and consistency. Easy-to-use digital processes with repeatably accurate results mean less rework and better quality control. The iX series is an all-in-one professional tool for layout, survey and machine guidance.

- Precise positioning with single-person operation
- High-speed advanced Ultrasonic motors
- Easy-to-use with MAGNET or Pocket3D software
- Seamless integration into BIM workflows
- Available in iX-1200 and iX-600 models with multiple accuracy levels
- Three-year instrument and five-year motor warranty
- Ultra-rugged IP65 dust and water resistance

Specifications

Telescope				
Length	142 mm			
Aperture	EDM: 38 mm			
Magnification	30x			
Image	Erect			
Resolving power	2.5"			
Field of view	1°30′			
Minimum focus	1.3 m (4.3 ft.)			
Reticle illumination	5 brightness levels			
	3 brightness revers			
Angle Measurement	But an altered to according			
Horizontal and vertical circles type				
Detecting	2 sides			
Angle Units	Degree/Gon/Mil (selectable)			
Minimun Display				
iX 1201/1202/602	0.5" (0.0001 gon/0.002 mil)			
iX 1203/603/605	1" (0.0002 gon/0.005 mil) (selectable) 1" (0.0002 gon/0.005 mil)			
1/1/203/003/003	5" (0.0002 gon/0.003 mil) (selectable)			
Angle Accuracy (ISO 17123-3 : 20				
iX 1201	1" (0.0003 gon/0.005 mil)			
iX 602	2" (0.0006 gon/0.010 mil)			
iX 1203/603	3" (0.0003 gon/0.015 mil)			
iX 1205/605	5" (0.0003 gon/0.025 mil)			
Collimation compensation	On/Off (selectable)			
Measuring mode	Horizontal angle: Right/Left (selectable) Vertical angle: Zenith/Horizontal/Horizontal ± 90° /%			
Tile Andle Comment of the	(selectable)			
Tilt Angle Compensation				
Туре	Liquid 2-axis tilt sensor			
Minimum display	1"			
Range of compensation	± 6' (0.0018 gon)			
Automatic compensator	On (V and H/V) / Off (selectable)			
Tilt offset	Can be changed			
Distance Measurement				
Measuring method	Coaxial phase shift measuring system			
Signal source	Red laser diode 690 nm Class 3R			
	1CFR Part1040.10 and 1040.11 (Complies with FDA performance r deviations pursuant to Laser Notice No.56, dated May 8, 2019.))			
Measuring Range				
Prism-2 X 1* ²	iX-1200 series: 1.3 to 6,000 m (19,685 ft.)			
2600 Duizara ATD4 (ATD46	iX-600 series: 1.3 to 4,000 m (13,123 ft.)			
360° Prism ATP1/ATP1S	1.3 to 1,000 m (3,280 ft.)			
Prism-5	1.3 to 500 m (1,640 ft.)			
Reflective sheet RS90N-K*3	1.3 to 500 m (1,640 ft.)			
Reflective sheet RS50N-K*3	1.3 to 300 m (980 ft.)			
Reflective sheet RS10N-K*3	1.3 to 100 m (320 ft.)			
Reflectorless (White)*2	iX-1200 series: 0.3 to 800 m (2,624 ft.) iX-600 series: 0.3 to 600 m (1,968 ft.)			
(Using the following reflective prism/re	effective sheet target during normal atmospheric conditions*1)			

(Using the following reflective prism/reflective sheet target during normal atmospheric conditions $^{\!\star \! 1}\!)$



iX-1200/600

Measurement	Minimum display			
Measurement 0.001 m (0.005 ft./ 1/8 inch)	Fine/Rapid	0.0001 m (0.001 ft./ 1/16 inch) or		
Maximum slope 12,000 m 13,490 ft.) 12,000 m 13,490 ft.) 14,000 m 14,490 ft.) 15,000 m 16,000	measurement	0.001 m (0.005 ft./ 1/8 inch)		
Maximum slope prism / reflective sheet Slope distance Reflectorless: 1,200 m (3,930 ft.) Prism: 9,600 m (31,490 ft.)	Tracking	0.001 m (0.005 ft./ 1/8 inch) or		
prism / reflective sheet Slope distance	measurement	0.01 m (0.1 ft./ 1/2 inch)		
Reflectorless: 1,200 m (3,930 ft.) Prism: 9,600 m (31,490 ft.) Distance unit M/ft./US ft./inch (selectable) Distance accuracy Circular or 360° Prism ATP1 iX-1200 series Fine: 1 mm (0.003 ft.) + 2 ppm Rapid: 5 mm (0.0016 ft.) + 2 ppm Rapid: 5 mm (0.016 ft.) + 2 ppm Rapid: 5 mm (0.016 ft.) + 2 ppm Reflective sheet Fine: 2 mm (0.006 ft.) + 2 ppm Reflectorless (White)*4 Fine: 2 mm (0.006 ft.) + 2 ppm (0.3 to 200 m) 5 mm (0.016 ft.) + 10 ppm (200 to 350 m) 10 mm (0.032 ft.) + 10 ppm (350 to 1000 m) Rapid: 6 mm (0.020 ft.) + 2 ppm (0.3 to 200 m) 8 mm (0.026 ft.) + 10 ppm (350 to 1000 m) Rapid: 6 mm (0.020 ft.) + 10 ppm (350 to 1000 m) Fine measurement (single/repeat/average) Rapid measurement (single/repeat) /Tracking (selectable) Measuring time Fine measurement 1.5 sec + every 0.9 sec. Rapid measurement Temperature input range 1.3 sec + every 0.4 sec. Tracking measurement Temperature input range Pressure input range -35 to 60°C (in 0.1°C step)/ -31 to 140°F (in 1°F step) ppm input range -499 to 499 ppm (in 0.1 mm Hg step), 14.8 to 41.3 inch Hg (in 0.01 inch Hg step) ppm input range -499 to 499 ppm (in 0.1 mm step) 0 mm fixed for reflectorless measurement Earth curvature and refraction correction Sea level correction No/Yes (selectable) *3 Figures when the laser beam strikes within 30° of the reflective sheet target.	Maximum slope	12,000 m		
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*3: Figures when the laser beam strikes within 30° of the reflective sheet target.				

and brightness level is less than 5,000 lx (a little cloudy). When

performing reflectorless measurement, the possible measurement range and precision will change depending on the target reflection factor, weather conditions and location conditions.

(turning)	iX-600: 85 degrees per second				
Max auto tracking	iX-1200: 20 degrees per second				
speed	iX-600: 15 degrees per second				
UltraTrac™ tracking	range				
Prism-2	iX-1200: 1.3 to 1,000 m (3,280 ft.) iX-600: 1.3 to 800 m (2,624 ft.)				
200 dagraa prigm					
360 degree prism (ATP1)	2 to 600 m (1,960 ft.)				
Auto Pointing accura	icy				
Standing still at 100 m or less	1.2 mm or better				
Standing still greater then 100 m	0.3 mm (0.001ft.) + 9 ppm				
Guide light					
Light source	LED (red 626 nm/green 524 nm)				
Visible distance	1.3 to 150 m				
Visible angle	Right and Left/Upward and Downward: ± 4° (7 m/100 m)				
Resolving power at center area (width)	4' (about 0.12 m/100 m)				
Brightness	3 levels (bright/normal/dim)				
Memory and Data					
Internal memory	1GB				
External memory	USB flash memory (up to 32GB)				
Visible angle	Asynchronous serial RS232C compatible USB Revision 2.0 (FS) Host (Type A) Client (Type miniB)				
LongLink™ Bluetooth	® wireless technology				
Transmission method	FHSS				
Modulation	GFSK (Gaussian-filtered frequency shift keying)				
Frequency band	2.402 to 2.48 GHz				
Bluetooth® profile	SPP, DUN				
Power class	Class 1				
Range	600 m (No obstacles, few vehicles or sources of radio omissions/interference in the near vicinity of the instrument, no rain, while in communication				
Authentication	Yes/No (selectable)				
Wi-Fi					
Communication distance	10 m				
Access method	Infrastructure mode/ad hoc mode				
Frequency range	2,412 to 2,472 MHz (1 to 11ch)				
Transmission	IEEE802.11b/g/n				

Max revolving speed iX-1200: 150 degrees per second

Rotation

specification



iX-1200/600

Dower cumply					
Power supply					
Power source	Rechargeable Li-ion battery BDC72				
Working duration at	BDC72: approx. 4 hours				
20°C	BT-73Q (external optional) approx. 6.5 hours				
Fine single measurement = every 30 seconds after worked 180					
degrees and locking on prism					
Battery state	4 levels				
indicator					
Auto power-off	5 levels (5/10/15/30 min/Not set)				
	(selectable)				
External power	6.7 to12 V				
source					
Battery (BDC72)					
Nominal voltage	7.2 V				
Capacity	5,986 mAh				
Dimensions	40 x 70 x 40 mm				
(w x d x h)					
Weight	approx. 220 g				
Charging time at 25°C	approx. 8 hours for two batteries using				
	CDC77 charger				
Charger (CDC77)					
Voltage	AC100 to 240 V				
Charging	0 to 40°C				
temperature range					
Storage temperature	-20 to 65°C				
range					
Size (w x d x h)	94 x 102 x 36 mm				
Weight	about 250 g				
Operating system					

Optical plummet	
Image	Erect
Magnification	3X
Minimum focus	0.5 m
Environmental	
Operating temperature	Standard models: -20 to 50°C (-4 to 122°F) (no condensation)
Storage temperature	-30 to 60°C (-22 to 140°F) (no condensation)
Dust/Water rating	IP65 (IEC 60529: 2001)
Instrument height	192 mm from tribrach mounting surface
Size with handle (w x d x h)	212 x 172 x 355 mm
Weight (with handle/battery)	5.8 kg
Certifications and Sta	ndards
USA FCC Class A Europe R&TTE-Class1 Europe EMC-ClassB Canada ICES –ClassA	

10'/2 mm on tribrach 8'/2 mm on main unit (optional) Graphic display range: 6' (inner circle) Digital display range: ± 6' 30"

Sensitivity of levels
Circular level

Electronic circular

Australia C-Tick N 13813 Europe WEEE Directive Europe Battery Directive California Proposition 65 California Perchlorate Material CR

TELEC

levels

Operating system

Windows Compact 7

Display

Color touchscreen 4.3 inch Transmissive TFT VWGA color LCD Backlight LED 9 brightness levels

Touch panel resistance sensitive analog type

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