



3 YEAR
INSTRUMENT

5 YEAR
MOTOR

WARRANTY



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INSTRUMENT



5 YEAR
MOTOR

WARRANTY



The Ultimate Total Station

- UltraSonic Direct Drive motors
- 30% smaller and lighter than any previous Topcon robotic
- TSshield™ global service
- Advanced UltraTrac technology
- 3-year instrument warranty
- 5-year motor warranty
- Available in two models

The GT Series of robotic total stations is a compact, 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 GT 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.

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 any Topcon robotic instrument, yet twice as fast. Without traditional gears or wearing parts, the UltraSonic motors are more rugged and durable – lasting four times longer than previous total stations, and we back it with a five-year warranty.



Workdays turned into worklows

- Direct connectivity to both MAGNET® Enterprise and Sitelink3D global web services
- Easy collaboration from project sites to office staff and managers
- Instant file sharing with both Autodesk® AutoCAD Civil 3D and Bentley MicroStation

UltraSonic Motor

Experience power like you've never seen or heard before

- Long-lasting gearless design
- Turning speed of 180° per second
- Compact motor efficiency



fastest
robotic motor
technology available



30% smaller
and lighter

Fast and powerful EDM
1,000 m non-prism and
5,000 m prism range

Integrated cellular modem

Advanced angle accuracy

Rugged waterproof and
dustproof IP65 design

Bright 4.3 inch color
touchscreen display



TSshield™ global service for auto main-
tenance and theft deterrence

Integrated Bluetooth® and advanced
LongLink™ communication technology

Direct Drive motors with a turning
speed of 180° per-second

Advanced UltraTrac technology

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



Telescope	
Resolving power	2.5"
Magnification	30x
Angle Measurement	
GT-502: 2"	GT-1001: 1"
GT-503: 3"	GT-1002: 2"
GT-505: 5"	GT-1003: 3"
Tilt Angle Compensation	
Compensation	Liquid 2-axis tilt sensor
Range	±6'
Distance Measurement	
Prism EDM Range	
GT-500	4,500 m
GT-1000	5,000 m
Prism EDM Accuracy	
GT-500	2 mm + 2 ppm
GT-1000	1 mm + 2 ppm
Non-Prism Range	
GT-500	800 m
GT-1000	1,000 m
Non-Prism Accuracy	
	2 mm + 2 ppm (0.3 - 200 m)
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	
GT-500	120° per-second
GT-1000	180° per-second



Integrated cellular modem

- Instant Internet connection from project site
- MAGNET® Field on-board for team collaboration
- Asset management through MAGNET® Enterprise service



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 compatible Topcon GNSS receiver
- Compatible with RC-5 remote
- Reflectorless out to 1,000 m



Guaranteed reliability

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



For more information:
topconpositioning.com/gt-series

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