GT SERIES

The GT Series of robotic total stations is 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 GT Series. The UltraSonic motors are the thinnest, lightest, and the fastest on the market – providing you with the smoothest, fastest and most accurate prism-tracking possible. It’s a difference you can see and hear immediately. With a turning speed of 180° per-second, no matter how fast you move, or how many obstacles are in the way, you cannot outrun the GT.

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 workflows
• 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 backed by the industry leading warranty
- 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

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

TSshield™ global service for auto maintenance and theft deterrence
### GT SERIES

#### Telescope
- Resolving power: 2.5"
- Magnification: 30x

#### Angle Measurement
- GT-502: 2"
- GT-503: 3"
- GT-505: 5"
- GT-1001: 1"
- GT-1002: 2"
- 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**
  - GT-500: 2 mm + 2 ppm
  - GT-1000: 2 mm + 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
  - GT-500: 120° per-second
  - GT-1000: 180° per-second

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**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 HiPer SR 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

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For more information:
[topconpositioning.com/gt-series](http://topconpositioning.com/gt-series)

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