

Topcon GT Series UltraSonic Robotic Total Station

Fast and compact professional grade robotic total station solution that is built to perform.

Features & Benefits

- Smallest and lightest robotic total station
- UltraSonic Direct Drive motors
- Advanced UltraTrac technology
- TSshield global service
- 3 year instrument, 5 year motor warranty
- Integrated cellular modem
- Ready for full promotion into a Hybrid Positioning solution



Production at the Speed of GT

Driven by ultra fast Ultra-Sonic Motors (USM) with turning speed of 180 degrees/sec that provide a quick tracking speed of 20 degrees /sec – which is 125 km/h at a 100 meters from the instrument. Making the GT is the fastest instrument in the industry!

Out of the Box Functionality

Instantly compatible with a field-ready [RC-5 remote](#) providing single-operator efficiency, yet with full versatility to toggle into optional measurements modes.

Data Transfer Options

Integrated USB access for convenient data transfer to / from MAGNET Field OnBoard data collection software. Excellent option for two person layout scenarios or when working with multiple GT robotic systems on the same project.

Smaller - Better - Faster

Resulting in the world’s smallest and lightest robotic total station that is 30% smaller than previous models as well as 30% lighter. A modern approach that is the physical size of a manual total station, yet with full feature functionality.

Topcon GT robotic total station product video (1 min, 12 sec)

The Topcon GT is a member of the Elite Survey Suite



Topcon GT Series Instrument Specifications	
Angle Measurement	
Accuracy	
Accuracy	1" (0.3 mgon) /3" (1.0 mgon) 5" (1.5 mgon, not available in North America)
Tilt Correction	Dual Axis
Distance	

Prism	
Range	Single Prism 6000m (19,680 ft) Triple Prism 10,000m (32,800 ft)
Measuring Accuracy	1.5mm+2ppm
Measuring Time	0.9 seconds
Non-Prism Mode	
Measuring Range	800m (2,624 ft) 1000m (3280 ft) 500 lux
Measuring Time	0.9 seconds
Auto Tracking Servo	
Max Rotating Speed	85 degrees/ Second
Max. Auto Tracking Speed	20 degrees/ second
Auto Tracking Range	1,000m (3,280 ft) 600m (1,980 ft) with A7 prism
Positioning Accuracy	1.2mm (<100m 0.3 +9ppm)
Interface	
Bluetooth®	Bluetooth Class 1 600m (1968 ft) communication range with RC-5
Communications Port	RS-232 New Connector
USB Port	A and B
Wireless Communications	WLAN Tierra Module
Others	
Operating System	Windows CE 6.0
Display Panel	240 * 320 QVGA Color TFT Single Display and Keyboard
Waterproof Rating	IP-65
Software	Magnet On-board
Power	
Battery	BDC70 Li-ion 7.2 v5240 mamps 4 hours