

Topcon GPT-3500 Series Total Stations

This GPT-3500 is a mid-ranged product for the construction/mining professional that is looking for the power of a 2000 meter reflectorless EDM with data collection on-board. This rugged waterproof designed total station has Bluetooth to connect an external data controller.

The GPT-3500 provides superior performance and quality backed by Topcon's Long Range reflector less technologies.



Features & Benefits

- Fast and Powerful pulse EDM
 - 2000m Non-Prism (6,560 ft)
 - 3000m Prism (9,842 ft)
- Built-in wireless Bluetooth®
- Battery 5 hours
- Rugged Waterproof IP66 design
- Laser pointer (Red Coaxial)
- On-Board TopField application software standard
- Guide Lights Red LED
- Internal 24,000 pts
- RS-232 Hirose connector
- LCD graphic display,
- Horizontal and Vertical Locking Tangents
- Temperature specification -20°C to +50°C (-4°F to +122°F)
- 24 key keyboard, with alphanumeric input and 4-function keys

Fast and Powerful EDM

The **2000m (6,560 ft) Non-Prism** is a pulse EDM that can measure further than non-prism instruments in this class. The Topcon algorithm reduces the noise associated with non prism measurements providing an accurate result to most surfaces over longer distance. This is true for darker surfaces and wet surfaces where other non-prism fail. Incorporating Topcon's advanced time-of-flight (pulse) technology, the GPT-3500 offers both of superior performance and maximum safety with its Class I safe laser. This allows safe use even in areas with heavy traffic. **3000m (9,842 ft)** is the distance to a prism.

Long Life Battery 5 hours

The 5 hours provides for almost a ½ days worth of work in the field before you need to recharge. .

Rugged Waterproof IP66 design

Provides protection from the driving rain for all weather as well as dust

Laser pointer (Red Coaxial)

Our red laser pointer is coaxial through the scope making indoor measurements very quick or in limited sunlight and short distance can assist the remote rod man.

Guide Lights Red LED

Provide the remote rod man with direction to approximately find the horizontal line. This feature is extremely helpful during stakeout to quickly find line without communication with the instrument man or for trying to find the horizontal angle (line) when cutting brush for a traverse line.

RS-232 Hirose connector

Is provided for connecting to an older data collector that does not have Bluetooth or to transfer data to a computer.

GPT-3502LN/LNW and GPT-3505LN/LNW	
Distance Measurement - Prism Mode	
Measuring Range to Mini Prism	1000m
Measuring Range to 1 Prism	3000m
Measurement Accuracy	Fine: +/-2mm+2ppm m.s.e. Coarse: +/-7mm+2ppm m.s.e
Measuring Time	Fine mode 1mm: Approx 1.2 sec. (initial 3 sec.)

Distance Measurement - Non-Prism Mode (Diffusing Surface)	
Measuring Range	1.5m to 250m
Measuring Accuracy	Fine: +/-5mm m.s.e.
Measuring Time	Fine mode 1mm: Approx. 1.2 sec (initial 3 sec)
Distance Measurement - Non-prism Long Mode (Diffusing Surface)	
Measuring Range	5m to 2000m
Measuring Accuracy	Fine 1mm +/-10mm +10ppm m.s.e.
Measuring Time	Fine mode 1mm: Approx. 1.5 to 4.5 sec (initial 6 to 8 sec)
Angle Measurement	
Minimum Reading	1" / 5" (0.2 / 1mgon)
Accuracy	GPT-3502LN/LNW: 2" (0.6mgon) GPT-3505LN/LNW: 5" (1.5mgon)
Display	
Display unit	Graphics LCD 160x64 pixels with backlight
Keyboard	24-key Alpha-Numeric Key
Tilt Correction (Automatic Index)	
Tilt Sensor	Dual Axis
Compensating Range	+/- 3'
Circular Level Sensitivity	10' / 2mm
Plate Level Sensitivity	30" / 2mm
Others	
Bluetooth Modem	Bluetooth Class 2, Ver.2.1+EDR, Operating range: about 5m(16ft.)*4 (GPT3503LNW/3505LNW type)
Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer on)
Instrument Height	176mm (6.93 in.)
Dimension	336(H)x184(W)x172(L)mm/13.2(H)x7.2(W)x6.8(L)in.
Instrument Weight with Battery	5.3kg(11.6 lbs.)
Protection against water and dust	IP66 (with BT- G1W) (Based on the standard IEC60529)
Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)
Battery	BT- G1W DC7.2V / 2.3 Ah (Ni-MH)
Operating Time (using EDM)	Approximately 8 hours
Operating Time (angle measurements only)	38 hours