

GPT-3500LN/LNW

REFLECTORLESS TOTAL STATION

**Long Range Reflectorless
2,000m**



Extended Reflectorless Measurement Range up to 2,000M

- Class1 Safe Pulse Laser EDM
- Laser Pointer for Reflectorless Measurement and Layout
- Point Guide for Stakeout/Layout
- 24-Key Alphanumeric Keyboard
- Versatile Onboard Applications Including Road
- Rugged IP66 Dust and Water Protection

Powerful 2,000m Reflectorless EDM

A refinement of Topcon's advanced time-of-flight (pulse) EDM technology in the GPT-3500 allows measuring distances up to 2,000m (6,550 ft.) range without a reflector.

This wide range reflectorless capability enables quick and efficient measuring works in the large area. Also, it increases personal safety without approaching dangerous surface.



Reflectorless Measuring for any targets

Powerful reflectorless measuring capability even for narrow object such as power line or tower frame of power line.

Also, it can measure low reflection target like road and ground surface, wood, coal, and any dark color materials.



TopField / Road Software with Alphanumeric Keyboard

The onboard "TopField" and "Road" software dramatically increases efficiency in topo data collection, construction layout, as well as road stakeout tasks. The 24-key alphanumeric keyboard allows for quick inputting of point numbers, codes, attributes, and other necessary data.



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SPECIFICATIONS

Model	GPT-3502LN/LNW	GPT-3505LN/LNW
DISTANCE MEASUREMENT		
Prism Mode		
Measuring Range ^{*1}		
Mini prism	1,000m	
1 prism	3000m	
Measurement Accuracy ^{*2}	Fine: $\pm(2\text{mm}+2\text{ppm}\times\text{D})\text{m.s.e.}$	
Measuring Time	Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)	
Non-Prism Mode (Diffusing Surface)		
Measuring Range	1.5m to 250m	
Measuring Accuracy ^{*3}	Fine: $\pm(5\text{mm})\text{m.s.e.}$	
Measuring Time	Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)	
Non-Prism Long Mode (Diffusing Surface)		
Measuring Range	5m to 2,000m	
Measuring Accuracy ^{*2,*3,*4}	Fine 1mm: $\pm(10\text{mm}+10\text{ppm}\times\text{D})\text{m.s.e.}$	
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 ^{*5}	2" (0.6mgon)	5" (1.5mgon)
DISPLAY		
Display Unit	Graphics LCD 160 × 64 Dots with backlight	
Keyboard	Alpha-Numeric key	
TILT CORRECTION (AUTOMATIC INDEX)		
Tilt Sensor	Dual axis	
Compensating Range	±3'	
Level Sensitivity		
Circular Level	10' /2mm	
Plate Level	30" /2mm	
OTHERS		
Bluetooth modem ^{*6,*7}	Bluetooth Class 2 (GPT3503LNW/3505LNW type)	
Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer on)	
Instrument Height	176mm (6.93 in.)	
Dimension	336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.	
Weight (with battery)	5.3kg(11.6 lbs.)	
Durability		
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 / 2,300 mAh (Ni-MH)	
Operating time^{*8,*9}		
Including EDM measurement ^{*10}	Approximately 8 hours	
Angle measurement only	38 hours	

^{*1} Condition: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer. ^{*2} D: Measuring Distance ^{*3} Kodak Gray Card White Surface (90%) ^{*4} <500m ^{*5} Standard deviation based on DIN18723 ^{*6} No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. ^{*7} Ver.2.1+EDR, Operating range: about 5m(16ft) ^{*8} Battery using time will vary depending on environmental conditions and operations done with GPT-3500series. ^{*9} Without using Bluetooth. ^{*10} Fine single measurement = every 30sec, EDM OFF TIME = 0

- Specifications subject to change without notice.
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