



SURVEY INSTRUMENT

**TOPCON**<sup>®</sup>



# GPT-3000LW Series

Long Range Reflectorless Total Stations

**NEW**



ISO 9001:2000  
FM 68448



**Topcon, the World Leader in Positioning Solutions proudly introduces the most advanced, longest range reflectorless total station available, the new GPT-3000LW Series.**



### LONGEST REFLECTORLESS RANGE

Topcon's unique pulse laser technology allows the GPT-3000 series to measure up to 250m in the standard reflectorless mode, and now up to an astonishing 1200m in the new Long Range mode! Topcon has developed this advanced technology to give you the best reflectorless performance with complete safety and confidence. The Class 1 laser is safe to use around populated areas or heavy traffic.

The new Topcon 3000LW series measures nearly four times farther than any other competitive total station, once again demonstrating the technology advantages that Topcon offers.

### DUAL LASER OPTICS

Topcon's GPT-3000 uses a dual laser optics system, one narrow beam for non-prism functions, and a broader beam when using a prism. This stabilizes the beam over long distances providing accurate measurement, even in adverse atmospheric conditions such as heat shimmer.

### BLUETOOTH WIRELESS COMMUNICATION

Topcon is the first manufacturer to offer Bluetooth wireless technology for electronic total stations. This unique technology eliminates the hassles of broken data collector cables, and struggling with office cable connections.

### TOPCON FIELD CONTROLLERS

Topcon also offers two different field controller options – our new FC-100 for a compact system, and the new FC-2000 for a full keyboard option.

Both systems offer a fast 400MHz Intel processor and a bright full-color touchscreen running the popular Windows CE® platform.



**TOPCON**  
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### GPT-3000LW Quick Specifications:

MODELS	3002LW	3003LW	3005LW	3007LW
<b>ANGLE MEASUREMENT</b>				
Angle Accuracy	2"	3"	5"	7"
Angle Reading	1"/5"	1"/5"	1"/5"	5"/10"
Method	Absolute Reading			
Compensation	Dual	Dual	Dual	Single
<b>TELESCOPE</b>				
Length	150mm			
Objective Diameter	45mm (EDM 50mm)			
Magnification	30x			
Image	Erect			
Field of View	1deg 30min			
Min. Focus Distance	1.3m (4.29 ft)			
<b>DISTANCE MEASUREMENT</b>				
<b>STANDARD:</b>				
Measurement Range (1 prism)	3,000m (9,000ft)			
Measurement Accuracy	3mm+2ppm			
Measurement time	Fine	Approx 1.2 Sec (Init 3 sec.)		
	Coarse	Approx 0.5 Sec (Init 2.5 sec.)		
	Tracking	Approx 0.3 Sec (Init 2.5 sec.)		
<b>REFLECTORLESS:</b>				
Measurement Range (Kodak White)				
Long Mode:	1,200m (3,900ft)			
Normal Mode:	250m (820ft)			
Measurement Accuracy <25m	+10mm			
Measurement Accuracy 25-1200m	+5mm			
Measurement time	Fine	Approx 1.2 Sec (Init 3 sec.)		
	Coarse	Approx 0.5 Sec (Init 2.5 sec.)		
	Tracking	Approx 0.3 Sec (Init 2.5 sec.)		
<b>DISPLAY</b>				
Screen Type	Graphics LCD 160x64 Dots with backlight			
Display Unit	Dual	Dual	Dual	Single
<b>POWER SPECIFICATIONS</b>				
<b>OPERATING TIME – SINGLE BATTERY</b>				
Including EDM measurement	3.2 Hours			
Angle measurement only	45 hours			
Recharge Time	1.8 Hours			
Battery Type	NiMH			
<b>PHYSICAL SPECIFICATIONS</b>				
Wireless Connection	YES, Bluetooth			
Point Guide	YES			
Laser Plummet	YES			
Laser Pointer	YES			
Weight (w/battery)	11.4 lbs.			
Waterproof Protection	IP66			
Temperature Range	-4 to +122 F			



**GPT-7000i**  
Total Station with imaging technology



**FC-100**  
Rugged Window CE® Field Computer



**HiPer Lite+**  
Cable-free GPS+ RTK system