SPECIFICATIONS

Model Name	GPT-3002	GPT-3003	GPT-3005	GPT-3007
TELESCOPE				
Length	150mm			
Objective Lens Dia.	45mm (EDM 50mm)			
Magnification	30×			
Image	Erect			
Field of View	1°30′			
Resolving Power	2.8"			
Min. Focus Distance	1.3m (4.29 ft.)			
DISTANCE MEASUREMENT				
Measuring Range				
Non-prism Mode	(Target: Kodak White)			
In low light condition and without sun glare on target		1.5 to 250m	(5 to 820 ft.)	
Prism Mode				
Condition 1* (1 prism)		3,000m	(9,900 ft.)	
Measurement Accuracy				
Non-prism Mode	(Diffusing Surface)			
1.5 to 25m (5 to 82 ft.)	±(10mm) m.s.e.			
25m or more (82 ft. or more)	±(5mm) m.s.e.			
Prism Mode	±(3m	nm+2ppm×D) m.s.e. l	D: Measuring distance	e (mm)
Measuring Time				
Fine measurement mode		1mm: Approx.	1.2 sec. (Initial 3 sec.)	
		0.2mm: Approx.	3 sec. (Initial 4 sec.)	
Coarse measurement mode	Approx. 0.5 sec. (Initial 2.5 sec.)			
Tracking measurement mode	Approx. 0.3 sec. (Initial 2.5 sec.)			

H: 2 sides V: 2 sides

1"/5"

2"

2 sides

Absolute Reading

H: 2 sides V: 1 side

Graphics LCD 160 × 64 Dots with backlight

4.2 hours

45 hours 336(H)×184(W)×174(L)mm [13.2(H)×7.2(W)×6.9(L)in.]

5.1kg (11.2 lbs.)

3.2kg (7.1 lbs.)

IP66 (with BT-52QA) (Based on the standard IEC60529) -20°C to +50°C (-4°F to +122°F)

Yes

176mm (6.93in.)

Class1 (for distance measurement) Class2 (Laser Pointer on)

1"/5"

2 sides

1"/5"

3"

2 sides

TOPCON POSITIONING SYSTEMS, INC.

Display Unit **OPERATING TIME** Including distance measurement Angle measurement only DIMENSION

WEIGHT Instrument (with battery) Plastic Carrying Case

ANGLE MEASUREMENT

Detecting System

Minimum Reading

Method

Accuracy

DISPLAY

OTHERS Protection against water and dust Ambient Temperature Range

Point Guide Laser Plummet Instrument Height Laser Class

*Condition 1: Sight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer. For more info on these or any other Topcon product log onto:



www.topcon.com

TOPCON POSITIONING SYSTEMS, INC.

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Specifications subject to change without notice

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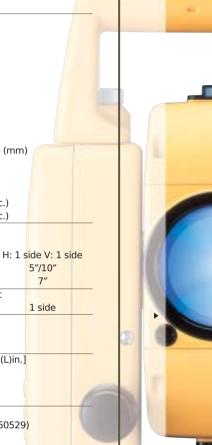




GPT-3000 Series

Reflectorless **Total Stations**









5"/10"

7"

1 side

TOPCON CORPORATION

Your Local TOPCON dealer is:







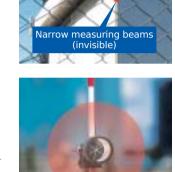
TOPCON, the World Leader in Positioning Solutions, proudly introduces the world's first long-distance, reflectorless total station using Topcon's advanced pulse laser technology.

Long Range prismless operation (up to 250m)

Easy-to-use, reliable and safe

Topcon's unique pulse laser technology allows the GPT-3000 series to measure up to 250m in reflectorless mode in complete safety and confidence. The Class 1 laser is so safe, you can even use it in heavy traffic areas. (Visible Laser Pointer: Laser Class 2)

Laser Class 1: Is not harmful to human health. It never exceeds the maximum permissible dose of light exposure under any condition

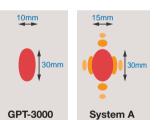


Prism mode

Non-prism mode

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.





Putting the competition "on-the-spot" (at 50m)

Most reflectorless instruments use a laser for distance measurement, and each manufacturers product vary in their spot quality over distance. Topcon's GPT-3000 uses the industries most advanced, highly focused infrared beam for a very stable, sharp spot, that is less resistant to "spreading" over distance.

Pick your point and measure. Accurately.

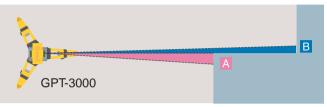
Along with its Pulse Laser diode for distance measurement, the GPT-3000 uses Topcon's state-of-the-art visible diode technology as a laser pointer. It puts a bright, flashing spot of light exactly at the point to be measured. No more guessing what your measuring or what you've measured. What you point at is what you'll measure.





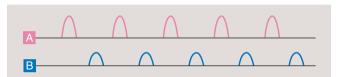
Pulse laser - precise measurements

The most important part of the measurement beam is its unique "pulse" technology. A pulse beam emits timed flashes of laser light. These flashes (or pulses) allow the laser to discern objects that may be close to the path of the point you are shooting. Now reliably shooting building corners, or an object through a chain link fence, is as easy as point and measure.



Why Pulse Laser?

When we collimate to point A, the pulse laser will output to point A and Point B at same time.



- 1. Pulse Laser (Time of Flight) measurement outputs signal A and signal B separately.
- A B A B A B A B
- 2. Although measured value of A and B is mixed in one cycle, the shape of signal is difference.



3. In this way GPT-3000 can distinguish between signal A and B.

standard components



GPT-3000 series1 each Battery BT-52QA2 each Battery charger BC-27BR (120V) or BC-27CR (230V).....1 each Tool kit with case1 set Plastic carrying case1 each Silicon cloth.....1 each Plastic rain cover.....1 each Plumb bob set1 each Lens cap......1 each Instruction manual1 each Sun shade1 each













GB-1000



