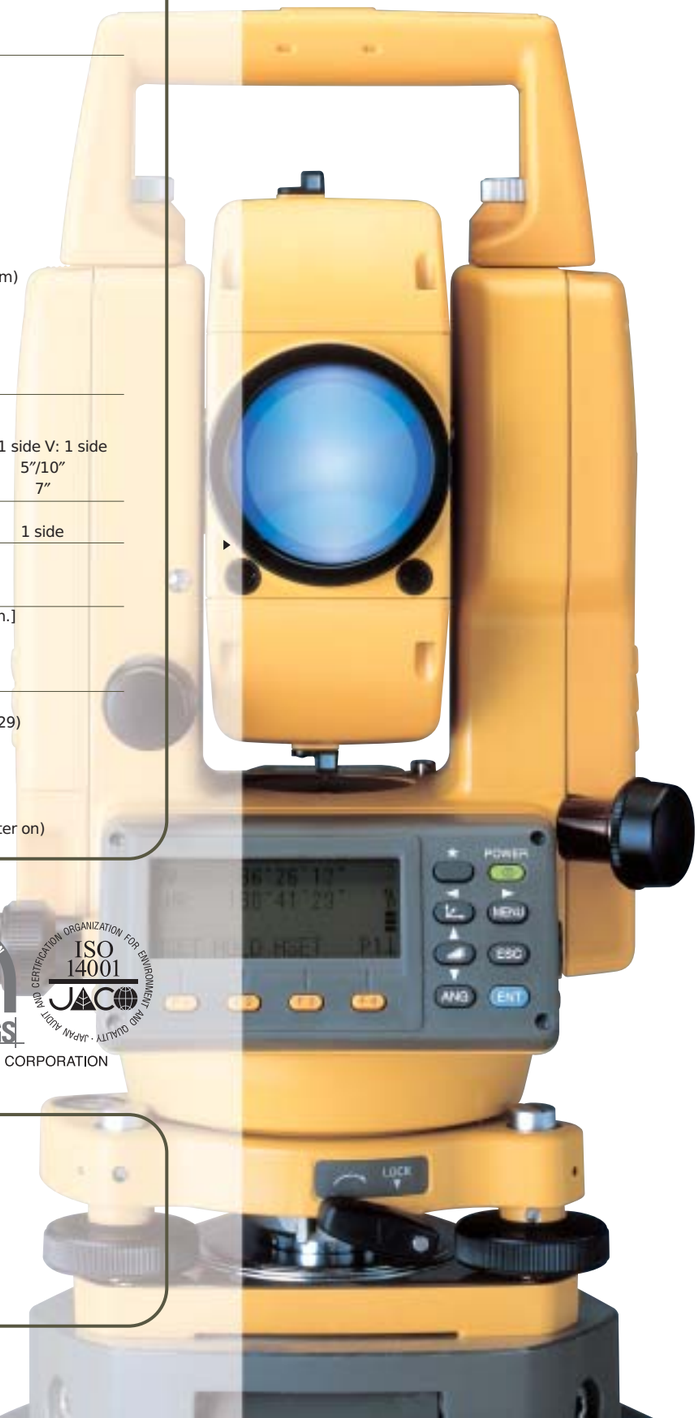
SPECIFICATIONS

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		±(3mm+2ppm×D) m.s.e. D: Measuring distance (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.)		
ANGLE MEASUREMENT				
Method		Absolute Reading		
Detecting System	H: 2 sides V: 2 sides	H: 2 sides V: 1 side		H: 1 side V: 1 side
Minimum Reading	1″/5″	1″/5″	1″/5″	5″/10″
Accuracy	2″	3″	5″	7″
DISPLAY		Graphics LCD 160 × 64 Dots with backlight		
Display Unit	2 sides	2 sides	2 sides	1 side
OPERATING TIME				
Including distance measurement		4.2 hours		
Angle measurement only		45 hours		
DIMENSION		336(H)×184(W)×174(L)mm [13.2(H)×7.2(W)×6.9(L)in.]		
WEIGHT				
Instrument (with battery)		5.1kg (11.2 lbs.)		
Plastic Carrying Case		3.2kg (7.1 lbs.)		
OTHERS				
Protection against water and dust		IP66 (with BT-52QA) (Based on the standard IEC60529)		
Ambient Temperature Range		–20°C to +50°C (–4°F to +122°F)		
Point Guide		Yes		
Laser Plummet		Yes		
Instrument Height		176mm (6.93in.)		
Laser Class		Class1 (for distance measurement) Class2 (Laser Pointer on)		

*Condition 1: Sight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.



GPT-3000 Series

Reflectorless Total Stations

TOPCON

For more info on these or any other Topcon product log onto:
www.topcon.com

TOPCON POSITIONING SYSTEMS, INC.

ISO 9001:2000
FM 68448

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Specifications subject to change without notice

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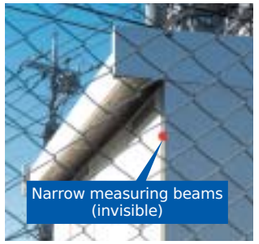
TOPCON, the World Leader in Positioning Solutions, proudly introduces the world's first long-distance, reflectorless total station using Topcon's advanced pulse laser technology.

Long Range prismless operation (up to 250m)

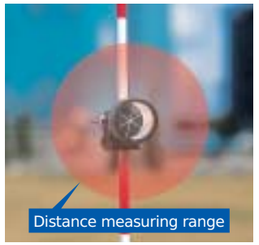
Easy-to-use, reliable and safe

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.



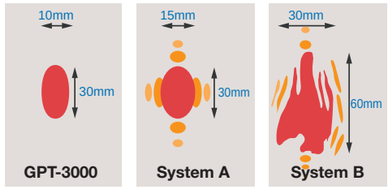
Non-prism mode



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)

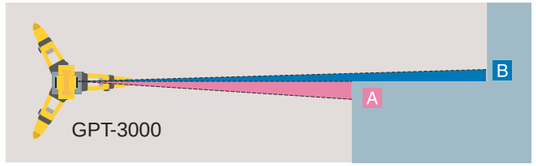
Most reflectorless instruments use a laser for distance measurement, and each manufacturers product vary in their spot quality over distance. Topcon's GPT-3000 uses the industries most advanced, highly focused infrared beam for a very stable, sharp spot, that is less resistant to "spreading" over distance.

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.

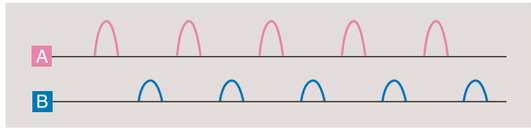
Pulse laser - precise measurements

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.

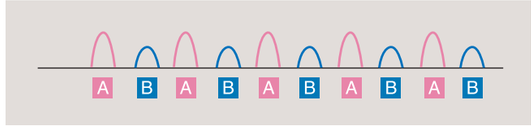


Why Pulse Laser?

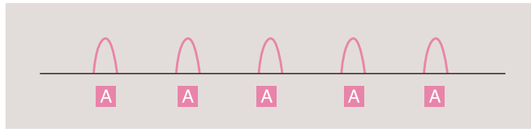
When we collimate to point A, the pulse laser will output to point A and Point B at same time.



1. Pulse Laser (Time of Flight) measurement outputs signal A and signal B separately.



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 series .....1 each
Battery BT-52QA .....2 each
Battery charger BC-27BR (120V)
or BC-27CR (230V) .....1 each
Tool kit with case .....1 set
Plastic carrying case .....1 each
Silicon cloth.....1 each
Plastic rain cover.....1 each
Plumb bob set .....1 each
Lens cap.....1 each
Instruction manual .....1 each
Sun shade .....1 each

General Construction, surveying, Earthmoving, Mapping.
No matter what type of work you do, topcon has a tool that will help you get the job done right. the first time.

HiPer GPS+ receiver

GTS-720 Total Station

System 5 3D Control Box

DL-100 Series Electronic Digital Levels

FC-1000 Data Collector

GB-1000 GPS+ receiver

RL-H2Sa Dual Slope Laser