

OWER



H

GPT-7000 GPT-7000i Series

Reflectorless Windows CE® Total Stations







ISO 9001:2000 FM 68448

Finally, an on-board solution that makes hands free surveying a reality, with advanced reflectorless capability that outperforms all other instruments in its class! The GPT-7000 series, only from Topcon!

GPT-7000 SERIES

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As the world leader in precise positioning solutions, Topcon has a tradition of bringing innovative technology to the jobsite. The GPT-7000 series total stations continue this tradition by providing advanced reflectorless technology in addition to a convenient built-in Windows CE.NET operating system and large, full color graphic display with touch screen!

- New technology dual optical reflectorless capability
- Long range reflectorless operation out to over 820'
- Super bright, color, Windows® CE touch screen operation
- GUI (Graphical User Interface) boosts your productivity
 - Built-in CCD Camera with Wide and Finder view (GPT-7000i Series)
 - Field images recorded with field coordinates data (GPT-7000i Series)
 - **Complete with TopSURV™** on-board data collection software

Advanced Reflectorless Capability

TOPCON

GTOPCON

The GPT-7000 series gives you up to 250m reflectorless range, the longest in its class! Measure up to 3000m with a prism. The unique dual optical EDM design takes pulse laser reflectorless measurement to a higher level. Even at long distances, it maintains focused beam accuracy and allows you to measure only the target you select.



GTS-720 Series Nindows® CF

New GPT-7000i Series IMAGING TOTAL STATIONS Capturing the Reality with Revolutionary Technology!

Topcon revolutionizes surveying with another World's First Technology. The GPT-7000i features a built-in digital camera for capturing job site images. The GPT-7000i provides you the best performance and most efficient surveying with precise long range EDM, TFT colour graphic display, and the latest Windows® CE technology, and the addition of image information.



Windows CE Advantages

At Topcon efficiency and productivity are our priority. By adopting the latest Windows® CE technology, Topcon brings the advantages of the GUI (Graphical User Interface) to a Total Station. The large 3.5" TFT color LCD display is large and bright enough for you to view all your data at a glance. In bright sunlight, it adjusts automatically so you can see the display clearly. And the added advantage of a touch screen increases the convenience and ease of use of the GPT-7000 series. Whether you are an experienced user or just a beginner, the GPT-7000 will allow you to get up and running in no time.



FC-100 Compact Windows CE®





GTS-820 Series Auto-Targeting/Auto Tracking GPT-3000W Series Wireless, Dual-Optical eflectorless Total Stations

CAPTURE



Specifications

Model Name

To 25m

25m or more

Non-Prism (1.5m or more)

GPT-7001(i) GPT-7002(i) GPT-7003(i) GPT-7005(i)

Measurement Range Prism Mode 3,000m (9,900 ft) * 1 prism * Condition 1: Sight haze with visibility about 20Km (12.5miles) moderate sunlight with light heat shimmer. 1.5 - 250m (5 - 820 ft) Non-Prism Mode Accuracy Prism Mode

Least Count in Measurement

S. Fine Measurement Mode Fine Measurement Mode Coarse Measurement Mode Tracking Measurement Mode

Measuring Time

S. Fine Measurement Mode Fine Measurement Mode Coarse Measurement Mode Tracking Measurement Mode

Angle Measurement

Method Minimum Reading

Accuracy

Tilt Correction

Type Method Compensating Range Correction Unit

Computer Unit

0S Processor Memory RAM ROM

Display Unit

Card System

Interface Serial I/F Port

Level Sensitivity Circular Level Plate Level

Optical Plummet Magnification Focusing Range Image

Durability Water and Dust Ambient Temperature

Laser Class



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±(3mm+2ppmxD*)m.s.e. ±(2mm+2ppmxD*)m.s.e. ±5mm

> 0.2mm(0.001 ft) 1mm(0.005 ft) 1mm(0.005 ft) 10mm(0.02 ft)

0.2mm: Approx. 3.0 sec.(Initial 4.0 sec.) 1mm: Approx. 1.2 sec. (Initial 3.0 sec.) 1mm: Approx. 0.5 sec.(Initial 2.5 sec.) 10mm: Approx. 0.3 sec.(Initial 2.5 sec.)

	Absolute Reading	
0.5"/1"	1"/5"	1"/5"
(0.1/0.5mgon)	(0.2/1mgon)	(0.2/1mgon)
1"	2"	3"
(0.3mgon)	(0.6mgon)	(1.0mgon)

Dual axis Liquid type ±4' 1"(0.1mgon)

Microsoft® Windows® CE.NET 4.2 Intel XPA255 400MHz

128MB (SDRAM) 2MB (FlashROM) + 256MB (Flash Memory) (A portion is used for pre-installed programs and data management functions) 320 x 240 (QVGA) dots Graphic LCD TFT color display with back lights and touch panel function 2 Sides 1 Side CompactFlash™ Card (Type I/II)

> RS-232C (6 pin) USB (Type Mini-B) for ActiveSync®

> > 10'/2mm 30'/2mm

Зx 0.5m to infinity Erect

IP54 (Based on the standard IEC60529) -20°C to +50°C (-4°F to +122°F)

Class 1 (for distance measurement) Class 2 (Laser Pointer On)

Your local TOPCON dealer is:

5"

1"/5" (0.2/1mgon) (1.5mgon)