

IMAGING TOTAL STATION

GPT-7000i series

NEW

GPT-7001i/7002i/7003i/7005i








Capturing The Reality With New Revolutionary Technology



“Topcon revolutionizes surveying work with a world's first new Total Station. Featuring built-in CCD camera for capturing digital images, precise and long range EDM, TFT colour graphic display, the newest Windows® CE and much more, the GPT-7000i provides you the best performance and most efficient survey work with the addition of image information.”

[MAIN FEATURES]

-  Built-in CCD Camera (Wide and finder view)
-  The field Images are recorded with field coordinates data
-  Graphical Display Boosts your productivity
-  Precise and long range Non Prism EDM
-  Supporting the strong and versatile software TopSURV OnBoard

SPECIFICATIONS

	GPT-7001i	GPT-7002i	GPT-7003i	GPT-7005i		GPT-7001i	GPT-7002i	GPT-7003i	GPT-7005i
TELESCOPE					COMPUTER UNIT				
Length	150mm				OS	Microsoft® Windows® CE.NET 4.2			
Objective Lens Dia.	45mm (EDM 50mm)				Processor	Intel XPA255 400MHz			
Magnification	30×				Memory	128MB (SDRAM)			
Image	Erect				RAM	2MB (FlashROM) + 256MB (Flash Memory)			
Field of View	1°30'				ROM	(A portion is used for pre-installed programs and data management functions)			
Resolving Power	2.8"				Display Unit	320 × 240 (QVGA) dots Graphic LCD TFT color display with back lights and touch panel function			
Min. Focus Distance	2.0m					2 sides		1 side	
DISTANCE MEASUREMENT					INTERFACE				
Measuring Range	1.5 to 250m (5 to 820 ft.)				Card System	CompactFlash™ Card (Type I/II)			
Non-prism Mode In low light condition and without sun glare on target					Serial I/F Port	RS-232C (6 pin) USB (Type Mini-B) for ActiveSync®			
Prism Mode Condition 1 (1 prism)	3,000m (9,900 ft.)				OTHERS				
Condition 1: Sight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.					Instrument Height	182mm (7.2 in.)			
Measurement Accuracy	±5mm				Level Sensitivity				
Non-prism Mode 1.5m or more (5 ft. or more)					Circular Level	10"/2mm			
Prism Mode to 25m	±(3mm+2ppm×D*)m.s.e				Plate Level	30"/2mm			
25m or more	±(2mm+2ppm×D*)m.s.e				Optical Plummet				
Least Count in Measurement					Magnification	3×			
S.Fine Measurement Mode	0.2mm (0.001 ft.)				Focusing Range	0.5m to infinity			
Fine Measurement Mode	1mm (0.005 ft.)				Image	Erect			
Coarse Measurement Mode	1mm (0.005 ft.)				Point Guide	Provided			
Tracking Measurement Mode	10mm (0.02 ft.)				Dimension				
Measurement Display	11 digits: max. display ±9999999.9999				GPT-7001i/7002i/7003i	343mm(H)×245mm(W)×219mm(L)/13.5(H)×9.6(W)×8.6(L)in.			
Measuring Time					GPT-7005i	343mm(H)×245mm(W)×199mm(L)/13.5(H)×9.6(W)×7.8(L)in.			
S.Fine Measurement Mode	0.2mm: Approx. 3.0 sec. (Initial 4.0 sec.)				Weight				
Fine Measurement Mode	1mm: Approx. 1.2 sec. (Initial 3.0 sec.)				Instrument (with battery)	6.5kg (13.6 lbs.)		6.4kg (13.4 lbs.)	
Coarse Measurement Mode	1mm: Approx. 0.5 sec. (Initial 2.5 sec.)				Plastic Carrying Case	4.7kg (10.3 lbs.)			
Tracking Measurement Mode	10mm: Approx. 0.3 sec. (Initial 2.5 sec.)				Durability				
ANGLE MEASUREMENT					Protection against water and dust	IP54 (Based on the standard IEC60529)			
Method	Absolute Reading				Ambient Temperature	-20°C to +50°C (-4°F to +122°F)			
Horizontal	2 sides				Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer On)			
Vertical	2 sides				ON-BOARD LITHIUM-ION BATTERY BT-61Q (This battery does not contain mercury.)				
Minimum Reading	0.5"/1" (0.1/0.5mgon)	1"/5" (0.2/1mgon)		Output Voltage	DC7.4V				
Accuracy**	1" (0.3mgon)	2" (0.6mgon)	3" (1.0mgon)	Capacity	4,400mAh				
Diameter of Circle	71mm				Maximum operating time at +20°C (+68°F)	Approx. 3.5 hours			
TILT CORRECTION					Including distance measurement	Approx. 6 hours			
Type	Dual axis				Angle measurement only	0.2kg (0.4 lbs.)			
Method	Liquid type				BATTERY CHARGER BC-30				
Compensating Range	±4'				Input Voltage	AC100-240V			
Correction Unit	1"/(0.1mgon)				Frequency	50/60Hz			
					Recharging Time(at +20°C/+68°F)	4 hours			
					Ambient Temperature Range	+10°C to +40°C (+50°F to 104°F)			
					Weight	0.15kg (0.3 lbs.)			

* D: measuring distance (mm) ** Standard deviation based on DIN18723

- Microsoft®, Windows® CE, ActiveSync®, is registered trademark of Microsoft Corporation.
- CompactFlash™ is trademark of SanDisk Corporation.
- The Bluetooth™ word mark is owned by Bluetooth SIG, Inc. and any use of such mark by Topcon is under license.

• Designs and specifications herein are subject to change without notice.

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan Phone: (+81)-3-3558-2527/2521 Fax: (+81)-3-3960-4214 www.topcon.co.jp

TOPCON POSITIONING SYSTEMS, INC.

7400 National Drive, Livermore, CA 94551, U.S.A.
Phone: (+1)-925-245-8300 Fax: (+1)-925-245-8599 www.topcon.com

TOPCON CALIFORNIA

3380 Industrial Blvd, Suite 105, West Sacramento, CA 95691, U.S.A.
Phone: (+1)-916-374-8575 Fax: (+1)-916-374-8329

TOPCON EUROPE B.V.

Essebaan 11, 2908 LJ Capelle a/d IJssel, The Netherlands.
Phone: (+31)-10-4585077 Fax: (+31)-10-4585045 www.topconeuropa.com

IRELAND OFFICE

Unit 69 Western Parkway Business Center
Lower Ballymount Road, Dublin 12, Ireland
Phone: (+353)-1460-0021 Fax: (+353)-1460-0129

TOPCON DEUTSCHLAND G.m.b.H.

Giesslerallee 31, 47877 Willich, Germany
Phone: (+49)-2154-885-100 Fax: (+49)-2154-885-111 info@topcon.de

TOPCON S.A.R.L.

89, Rue de Paris, 92585 Clichy, Cedex, France.
Phone: (+33)-1-41069490 Fax: (+33)-1-47390251 topcon@topcon.fr

TOPCON ESPAÑA S.A.

Federic Mompou 5, ED. Euro 3, 08960, Sant Just Desvern
Barcelona, Spain.
Phone: (+34)-93-473-4057 Fax: (+34)-93-473-3932 www.topcon.es

TOPCON SCANDINAVIA A. B.

Neongatan 2 S-43151 Mölndal, Sweden
Phone: (+46)-31-7109200 Fax: (+46)-31-7109249

TOPCON (GREAT BRITAIN) LTD.

Topcon House Kennel Side, Bone Lane, Newbury, Berkshire RG14 5PX U.K.
Phone: (+44)-1635-551120 Fax: (+44)-1635-551170
survey.sales@topcon.co.uk laser.sales@topcon.co.uk

TOPCON SOUTH ASIA PTE. LTD.

Blok 192 Pandan Loop, #07-01 Pantech Industrial Complex, Singapore 128381
Phone: (+65)-62730222 Fax: (+65)-62733540 www.topcon.com.sg

TOPCON AUSTRALIA PTY. LTD.

Unit 18, 4 Avenue of Americas, Newington, NSW 2127, Australia
Phone: (+61)-2-8748-8777 Fax: (+61)-2-9647-2926 www.topcon.com.au

TOPCON INSTRUMENTS (THAILAND) CO., LTD.

77/162 Sinn Sathorn Tower, 37th Fl.,
Krungthomburi Rd., Klongtongjai, Klongsam, Bangkok 10600 Thailand.
Phone: (+66)-2-440-1152-7 Fax: (+66)-2-440-1158

TOPCON INSTRUMENTS (MALAYSIA) SDN. BHD.

Exella Business Park Block C, Ground & 1st Floor, Jalan Ampang Putra,
Taman Ampang Hilir, 55100, Kuala Lumpur, Malaysia.
Phone: (+60)-3-42701068 Fax: (+60)-3-42704508

TOPCON KOREA CORPORATION

2F Yooeoung Bldg., 1595-3, Saecho-Dong, Saecho-gu, Seoul, 137-876, Korea.
Phone: (+82)-2-2055-0321-7 Fax: (+82)-2-2055-0319 www.topcon.co.kr

TOPCON OPTICAL (H.K.) LIMITED

2/F., Meeco Industrial Bldg., No. 53-55 Au Pui Wan Street, Fo Tan Road,
Sha Tin, N.T., Hong Kong
Phone: (+852)-2690-1328 Fax: (+852)-2690-2221 www.topcon.com.hk

TOPCON CORPORATION BEIJING OFFICE

Building B No.9, Kangding Street
Beijing Economic-Technological Development Area, Beijing, 100176, China
Phone: (+86)-10-6780-2799 Fax: (+86)-10-6780-2790

TOPCON CORPORATION BEIRUT OFFICE

P. O. BOX 70-1002 Antelias, BEIRUT-LEBANON
Phone: (+961)-4-523525/961-4-523526 Fax: (+961)-4-521119

TOPCON CORPORATION DUBAI OFFICE

C/O Atlas Medical FZCO., P. O. BOX 54304, C-25, Dubai Airport Free Zone,
United Arab Emirates
Phone: (+971)-4-2995900 Fax: (+971)-4-2995901

PRINTED WITH SOY INK

©2004 TOPCON CORPORATION

Printed in Japan 2004 11-50LW 1039-1 TS-AS-CH-ME