

IMAGING TOTAL STATION

GPT-7000i series






GPT-7001i/7002i/7003i/7005i**CAPTURE
REALITY**

Capturing The Reality With New Revolutionary Technology



“Topcon revolutionizes surveying work with a world's first new Total Station. Featuring built-in Digital camera for capturing digital images, precise and long range EDM, TFT color 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 Digital 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					Memory	128MB (SDRAM)			
Length	150mm				RAM	2MB (FlashROM) + 256MB (Flash Memory)			
Objective Lens Dia.	45mm (EDM 50mm)				ROM	(A portion is used for pre-installed programs and data management functions)			
Magnification	30×				Display Unit	320 × 240 (QVGA) dots Graphic LCD TFT color display with back lights and touch panel function			
Image	Erect					2 sides		1 side	
Field of View	1°30'				Card System	CompactFlash™ Card (Type I/II)			
Resolving Power	2.8"								
Min. Focus Distance	2.0m								
DISTANCE MEASUREMENT					DIGITAL CAMERA				
Measuring Range	1.5 to 250m (5 to 820 ft.)				Field of View	Wide Area View: 28° (f = 8mm F2.5) Finder View: Approx. 1° (f = 248.46mm)			
Non-prism Mode In low light condition and without sun glare on target					Sensor	CMOS			
Prism Mode	3,000m (9,900 ft.)				Pixel Size	VGA (Wide/Finder View) *Maximum display size is QVGA.			
Condition 1 (1 prism)					INTERFACE				
Condition 1: Sight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.					Serial I/F Port	RS-232C (6 pin) USB (Type Mini-B) for ActiveSync®			
Measurement Accuracy	±5mm				OTHERS				
Non-prism Mode 1.5m or more (5 ft. or more)					Instrument Height	182mm (7.2 in.)			
Prism Mode	±(3mm+2ppm×D*)m.s.e				Level Sensitivity	Circular Level Plate Level			
to 25m	±(2mm+2ppm×D*)m.s.e					10'/2mm 30"/2mm			
25m or more					Optical Plummet	3×			
Least Count in Measurement	0.2mm (0.001 ft.)				Magnification	0.5m to infinity			
S.Fine Measurement Mode	1mm (0.005 ft.)				Focusing Range	Erect			
Fine Measurement Mode	1mm (0.005 ft.)				Image	Provided			
Coarse Measurement Mode	10mm (0.02 ft.)				Point Guide				
Tracking Measurement Mode					Dimension	GPT-7001i/7002i/7003i 343mm(H)×245mm(W)×219mm(L)/13.5(H)×9.6(W)×8.6(L)in. GPT-7005i 343mm(H)×245mm(W)×199mm(L)/13.5(H)×9.6(W)×7.8(L)in.			
Measurement Display	11 digits: max. display ±9999999.9999				Weight	Instrument (with battery) 6.5kg (13.6 lbs.) 6.4kg (13.4 lbs.) Plastic Carrying Case 4.7kg (10.3 lbs.)			
Measuring Time	S.Fine Measurement Mode 0.2mm: Approx. 3.0 sec. (Initial 4.0 sec.) Fine Measurement Mode 1mm: Approx. 1.2 sec. (Initial 3.0 sec.) Coarse Measurement Mode 1mm: Approx. 0.5 sec. (Initial 2.5 sec.) Tracking Measurement Mode 10mm: Approx. 0.3 sec. (Initial 2.5 sec.)				Durability	Protection against water and dust IP54 (Based on the standard IEC60529) Ambient Temperature -20°C to +50°C (-4°F to +122°F)			
ANGLE MEASUREMENT					Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer On)			
Method	Absolute Reading				ON-BOARD LITHIUM-ION BATTERY BT-61Q (This battery does not contain mercury.)				
Horizontal	2 sides				Output Voltage	DC7.4V			
Vertical	2 sides				Capacity	4,400mAh			
Minimum Reading	0.5"/1" (0.1/0.5mgon)	1"/5" (0.2/1mgon)		Maximum operating time at +20°C (+68°F)	Including distance measurement Approx. 3.5 hours Angle measurement only Approx. 6 hours				
Accuracy**	1" (0.3mgon)	2" (0.6mgon)	3" (1.0mgon)	5" (1.5mgon)	Weight	0.2kg (0.4 lbs.)			
Diameter of Circle	71mm				BATTERY CHARGER BC-30				
TILT CORRECTION					Input Voltage	AC100-240V			
Type	Dual axis				Frequency	50/60Hz			
Method	Liquid type				Recharging Time(at +20°C/+68°F)	4 hours			
Compensating Range	±4'				Ambient Temperature Range	+10°C to +40°C (+50°F to 104°F)			
Correction Unit	1"(0.1mgon)				Weight	0.15kg (0.3 lbs.)			
COMPUTER UNIT									
OS	Microsoft® Windows® CE.NET 4.2								
Processor	Intel XPA255 400MHz								

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

• Designs and specifications herein are subject to change without notice. (E. & O.E.)

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- 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.

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



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