

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					Level Sensitivity				
to 25m	±(3mm+2ppm×D*)m.s.e				Circular Level	10'/2mm			
25m or more	±(2mm+2ppm×D*)m.s.e				Plate Level	30'/2mm			
Least Count in Measurement	0.2mm (0.001 ft.)				Optical Plummet				
S.Fine Measurement Mode	1mm (0.005 ft.)				Magnification	3×			
Fine Measurement Mode	1mm (0.005 ft.)				Focusing Range	0.5m to infinity			
Coarse Measurement Mode	1mm (0.005 ft.)				Image	Erect			
Tracking Measurement Mode	10mm (0.02 ft.)				Point Guide	Provided			
Measurement Display	11 digits: max. display ±9999999.9999				Dimension				
Measuring Time					GPT-7001i/7002i/7003i	343mm(H)×245mm(W)×219mm(L)/13.5(H)×9.6(W)×8.6(L)in.			
S.Fine Measurement Mode	0.2mm: Approx. 3.0 sec. (Initial 4.0 sec.)				GPT-7005i	343mm(H)×245mm(W)×199mm(L)/13.5(H)×9.6(W)×7.8(L)in.			
Fine Measurement Mode	1mm: Approx. 1.2 sec. (Initial 3.0 sec.)				Weight				
Coarse Measurement Mode	1mm: Approx. 0.5 sec. (Initial 2.5 sec.)				Instrument (with battery)	6.5kg (13.6 lbs.)		6.4kg (13.4 lbs.)	
Tracking Measurement Mode	10mm: Approx. 0.3 sec. (Initial 2.5 sec.)				Plastic Carrying Case	4.7kg (10.3 lbs.)			
ANGLE MEASUREMENT					Durability	IP54 (Based on the standard IEC60529)			
Method	Absolute Reading				Protection against water and dust	-20°C to +50°C (-4°F to +122°F)			
Horizontal	2 sides				Ambient Temperature				
Vertical	2 sides				Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer On)			
Minimum Reading	0.5"/1" (0.1/0.5mgon)	1"/5" (0.2/1mgon)		ON-BOARD LITHIUM-ION BATTERY BT-61Q (This battery does not contain mercury.)					
Accuracy**	1" (0.3mgon)	2" (0.6mgon)	3" (1.0mgon)	5" (1.5mgon)	Output Voltage	DC7.4V			
Diameter of Circle	71mm				Capacity	4,400mAh			
TILT CORRECTION					Maximum operating time at +20°C (+68°F)	Approx. 3.5 hours			
Type	Dual axis				Including distance measurement	Approx. 6 hours			
Method	Liquid type				Angle measurement only				
Compensating Range	±4'				Weight	0.2kg (0.4 lbs.)			
Correction Unit	1"(0.1mgon)				BATTERY CHARGER BC-30				
COMPUTER UNIT					Input Voltage	AC100-240V			
OS	Microsoft® Windows® CE.NET 4.2				Frequency	50/60Hz			
Processor	Intel XPA255 400MHz				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

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

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- CompactFlash™ is trademark of SanDisk Corporation.
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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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