

		SPECIFICATION	S	
Product Type			Auto-tracking Model	
Model		GT-1001	GT-1003	GT-1005
Auto-tracking / Auto-o	collimating			
Auto-tracking			•	
Auto-collimating			•	
Motor type		Direct drive by UltraSonic motor		
Rotation speed / Auto-tracking speed		180°/s / 20°/s		
Auto-tracking / Auto-collimating range ^{*1}		ATP1/ATP1S 360° prism ² : 2 to 600m (6.6 to 1,960ft.), Prism-5 mini prism : 1.3 to 500m (4.3 to 1,640ft.) Prism-2 one prism : 1.3 to 1,000m (4.3 to 3,280 ft.) Reflective sheet (Auto-collimating) ³ : RS10/30/50N-K : 5 to 50m (16 to 160ft.) / RS90N-K : 10 to 50m (32 to 160ft.)		
RC handle Remote control range (RC handle + RC-5)				
	(RC handle + RC-5)		2 to 300m (4.3 to 980ft.)	
Telescope				
Agnification / Resolv	ing power		30x / 2.5"	
), Objective aperture : 38mi	m (1.5in.) (38mm (1.5in.) for EDM), Image	e: Erect, Field of view: 1°30' (26m/	1,000m), Minimum focus: 1.3m (4.3f
Angle measurement				
Display resolutions		0.5"/1"		/5"
		(0.0001 / 0.0002gon, 0.002 / 0.005mil)	(0.0002 / 0.001go	on, 0.005 / 0.02mil)
Accuracy (ISO 17123-3:2001)		<u> </u>	5"	5"
Jual-axis compensato		Dual-ax	is liquid tilt sensor, working rang	e: ±b'
Distance measuremer	(C	D. d. d. l		da - Class 1
aser output ^{*4}			mode : Class 3R / Prism/sheet m	
leasuring range	Reflectorless*6	Under good conditions ^{*7} : 0.3 to 1,000m		
under average condi-		RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), F		.), RS10N-K: 1.3 to 100m (4.3 to 320f
tions ^{*5})	Mini prism ^{*9}	1.3 to 500m (4.3 to 1,640ft.)		
	One prism ^{*9}	1.3 to 5,000m (4.3 to 16,400ft) / Under good conditions*7 : 6,000m (19,680ft.)		
	ATP1/ATP1S 360° prism	1.3 to 1,000m (4.3 to 3,280ft.)		
Display resolution		Fine : 0.0001 / 0.001m (0.001 / 0.01ft., 1/16 / 1/8in.) / Rapid : 0.001m / 0.01ft. / 1/8in. Tracking / Road		
		0.01m / 0.1ft. / 1/2in.		
ccuracy*5	Reflectorless*6	(2 + 2ppm x D) mm ^{*10}		
ISO 17123-4:2001)	Reflective sheet*8	(2 + 2ppm x D) mm		
D=measuring distance in mm		(1 + 2ppm x D) mm		
Measuring time ^{*7*11}	Fine / Rapid / Tracking	0.9s (initial	1.5s) / 0.6s (initial 1.3s) / 0.4s (i	nitial 1.3s)
DS, Interface and Dat	a management			
Operating system Control panel		Windows Embedded Compact 7		
	Display	4.3 inch, Transmissive TFT WVGA color LCD with LED backlight, Touch screen,		
	Keyboard	24 keys with backlight		
	Location	On single face		
rigger key			On right instrument support	
ata storage	Internal memory	1GB internal r	memory (includes memory for pr	ogram files)
Plug-in memory dev				
Calendar / clock function		Yes		
Interface		Serial RS-232C, USB2.0 (Type A / miniB)		
Vireless communicatior		2G/3G, User SIM: mini-SIM(2FF)(25 x 15 x 0.76mm)		
	Bluetooth modem ^{*12}	Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960ft.) (while in communication with RC-5)*13		
	Wireless LAN	L	IEEE 802.11b/g/n	
General				
Guide light ^{*14}			LED (626nm), Operating range:	1.3 to 150m (4.3 to 490ft.)
aser-pointer ^{*14}		C	oaxial red laser using EDM beam	
Levels	Graphic	6' (Inner Circle)		
DI	Circular level (on tribrach)	10' / 2mm		
lummet	Optical	Magnification: 3x, Minimum focus: 0.5m (11.8in.) from tribrach bottom		
	Laser (option)	Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser product		
Dust and water protection / Operating temperature		IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F)		
Size with handle		212(W)x 172(D)x 355(H)mm		
Instrument height		192.5mm from tribrach mounting surface		
		Δρρ	rox. 5.8kg (12.8lb)(with RC hand	0)
Veight with battery &	tribrach	Ahh	Toxi Stoky (12:015)(Mich ite hand	
Veight with battery &				
Veight with battery & Power supply Battery Operating time (20°C)	BDC70 detachable battery		Li-ion rechargeable battery Approx. 4hours ^{*15}	

*1 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation. *2 Figures when both the elevation and depression angles of the laser beam are within 15° and the instrument is facing the ATP1/ATP1S 360° prism *3 When using a reflective sheet for Auto-collimating, the size of sheet (10 to 90 mm) must be selected to correspond to the distance being measured. Use smaller reflective sheets for shorter distances. Figures when the Auto-collimating beam strikes within 15° of the reflective sheet target. *4 IEC60825-1:Ed.30:2014 / FDA CDRH 21 CFR Part 1040.10 and 11 *5 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.
*6 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. or less. Reflectorless range/accuracy may vary acording to measuring objects, observation situations and environmental conditions: *0 Foace, visibility about 20km (12 miles), sunny periods, weak scintillation.
*6 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. or less. Reflectorless range/accuracy may vary acording to measuring objects, observation situations and environmental conditions: No haze, visibility about 40km (25miles), overcast, no scintillation. *8 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target. *9 Face the prism toward the instrument during the measurement with the distance at 10m or less. *10 Measuring range:0.66 to country. Please consult your local office or representative in advance. *13 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. *14 The laser-pointer and the guide light do not work simultaneously. *15 Figures will change depensing on the operating environment including temperatures and observation conditions.



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Accomplished the world's fastest turning speed of 180° per second with UltraSonic motor and direct drive system. This also contributes to ultraslim body.



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Tough designed GT, passes impact, vibration, high-temperature, and humidity testing provides consistent performance at any harsh environments.





5.7 kg motor drive total station! GT is a third smaller than any previous Topcon robotic instrument and the same weight as a manual

Accomplished weight-saving,

total station - providing easy carrying and setup at a project site.

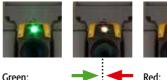
World's first Internetconnected(IoT) total station! Integrated cellular modem. Total station now with Internet connectivity!

GT is fully connected with cellular modem and wireless LAN. This allows direct connectivity to MAGNET® Enterprise and provides you close connection between a project site and office staff and managers.



*As robotic total station, by our research on January 2016.

Bright, Sharp Guide Light The Guide Light allows you to instantly recognize the line between the instrument and the stakeout line, with clearly visible Green and Red lights.





move to right stakeout line

move to left

Jog dial You can rotate GT with smooth jog dial.





Large display Large and high-resolution WVGA display provides clear visibility under the sunlight. Moreover, large size icon improves operability.





Auto-tracking Enhanced prism-tracking strength under any conditions in case you lose the line-of-sight by interruption or strong sunlight. Even if a prism lock is lost, you can easily turn GT and reacquire the prism with RC-5 and go back to work smoothly.

Versatile functions



RC handle (GT-1000 series)

RC-5 sensor on the handle can be used for auto-prism searching. This allows easy, rapid prism searching regardless of your position.



Trigger key

Just "Rough Aim" and "Press Trigger button" to get precise aiming and measurement automatically and easily.



USB available

Serial cable and USB connections can be used (Max:32GB) for data transmission/reception.



Dustproof and Waterproof: IP65 design

Provides protection from dust and driving rain as well as other inclement weather conditions. Operates in temperatures from -20 to +50°C.







Auto-collimating

Precise measurement can be done by just "Rough Aim" and "Press Trigger button" without lens focus and other operations.

Auto-collimating provides consistent accuracy and speed regardless of operator's skill levels and condition.