

Model Telescope Magnification / Resolving power Others	GM-101	GM-105	
Telescope Magnification / Resolving power		J.: 200	
Magnification / Resolving power			
		30x / 2.5"	
		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm (1.9in.) for	
0 1.10. 0		0' (26m/1,000m), Minimum focus: 1.3m (4.3ft.	
	,, ,	Reticle illumination: 5 brightness levels	
Angle measurement	Reticle illullilla	don. 3 brightness levels	
Minimum Display	0.5"/1"	1"/5"	
Pilliniani Dispiay	(0.0001 / 0.0002gon, 0.002 / 0.005mil)	, · ·	
Accuracy (ISO 17123-3:2001)	(0.0001 / 0.0002g0ii, 0.002 / 0.003iiii)	(0.0002 / 0.001g0ii, 0.003 / 0.02iiiii)	
Dual-axis compensator /		concor working range: +6'	
Collimation compensation		Dual-axis liquid tilt sensor, working range: ±6' On/Off (selectable)	
Distance measurement		Ti (Selectable)	
Laser output*1	Reflectorless mode : Clas	s 3R / Prism/sheet mode : Class 1	
Measuring range Reflectorie		r good conditions*4 : 1,000m (3,280ft.)	
(under average condi-		RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.),	
tions*2)	, ,	**	
Mini prism		RS10N-K: 1.3 to 100m (4.3 to 320ft.) 1.3 to 500m (4.3 to 1,640ft.)	
One prism		Inder good conditions*4 : 6,000m (19,680ft.)	
Minimum Display			
Timinani Bispiay		Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable) Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)	
Accuracy*2 Reflectorle			
(ISO 17123-4:2001) Reflective		(2 + 2ppm x D) mm*8 (2 + 2ppm x D) mm	
(D=measuring distance in mm) Prism*7		(1.5 + 2ppm x D) mm	
Measuring time**4*9 Fine		0.9s (initial 1.5s)	
Rapid		s (initial 1.3s)	
Tracking		0.4s (initial 1.3s)	
OS, Interface and Data manageme		, (a. 2133)	
Operating system		Linux	
Display / Keyboard	Graphic LCD, 192 x 80 dots, backlight, contrast a	Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 28 keys with backlight	
Control panel location		both faces	
Trigger key		s (right side)	
Data storage Internal m		c. 50,000 points	
		nemory (max. 32GB)	
Interface		(Type A for USB flash memory)	
Bluetooth m		Operating range: up to 10m *11	
General			
Guide light*12		m), Operating range: 1.3 to 150m (4.3 to 490ft.)	
Laser-pointer*12		aser using EDM beam	
Levels Graphic		Inner Circle)	
		L0' / 2mm	
Plummet Optical		cus: 0.5m (19.7in.) from tribrach bottom	
Laser (opt		accuracy: <=1.0mm@1.3m, Class 2 laser product	
Dust and water protection / Operating to		IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)	
Size with handle		183(W)x 181(D)x 348(H)mm	
Instrument height		ribrach mounting surface	
Weight with battery & tribrach	Approx	c. 5.3kg (11.7lb)	
Power supply		11 1 11 BB 670	
Battery (2000)*13		Li-ion rechargeable battery BDC70	
Operating time (20°C)*13	BDC70: A	BDC70: Approx. 28hours*14	
1 3 ()			
Application program			
. ,	•REM Measurement •3D Coordin	ate Measurement •Resection •Stake Out	
Application program		ate Measurement •Resection •Stake Out Measurement •Missing Line Measurement	

*1 IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.
*3 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *4 Good conditions: No haze, visibility about 40km (25miles), overcast, no scintillation. *5 When the measuring bam's incidence angle is within 30° in relation to the reflective sheet target. *6 Measuring range in temperatures of 50 to 60°C (122 to 140°F): RS90N-K: 1.3 to 300m (4.3 to 980ft.), RS50N-K: 1.3 to 180m (4.3 to 590ft.), RS10N-K: 1.3 to 60m (4.3 to 190ft.) *7 Face the prism toward the instrument during the measurement with the distance at 10 m or less. *8 Measuring range:0.3 to 200m *9 Fastest time under good conditions, no compensation, EDM ALC at appropriate setting, slope distance. *10 Usage approval of Bluetooth wire-less technology varies according to country. Please consult your local office or representative in advance. *11 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. *12 The laser-pointer and the guide light do not work simultaneously. *13 Figures will change depensing on the operating environment including temperatures and observation conditions. *14 In use of ECO mode. Fine single measurement every 30sec.

Standard Package Components

- Main unit Battery (BDC70) Battery charger (CDC68A) Power Cable Lens cap Lens hood Tool pouch Precision Screwdriver Lens brush
- Hexagonal wrench (1.3 mm/2.5 mm)×2 Cleaning cloth Quick Manual CD-ROM (Operation manual) Laser caution sign-board Carrying case Carrying strap



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Your local Authorized Dealer is:



GM-100 Series



GM-100 Series

Geodetic Measurement Station



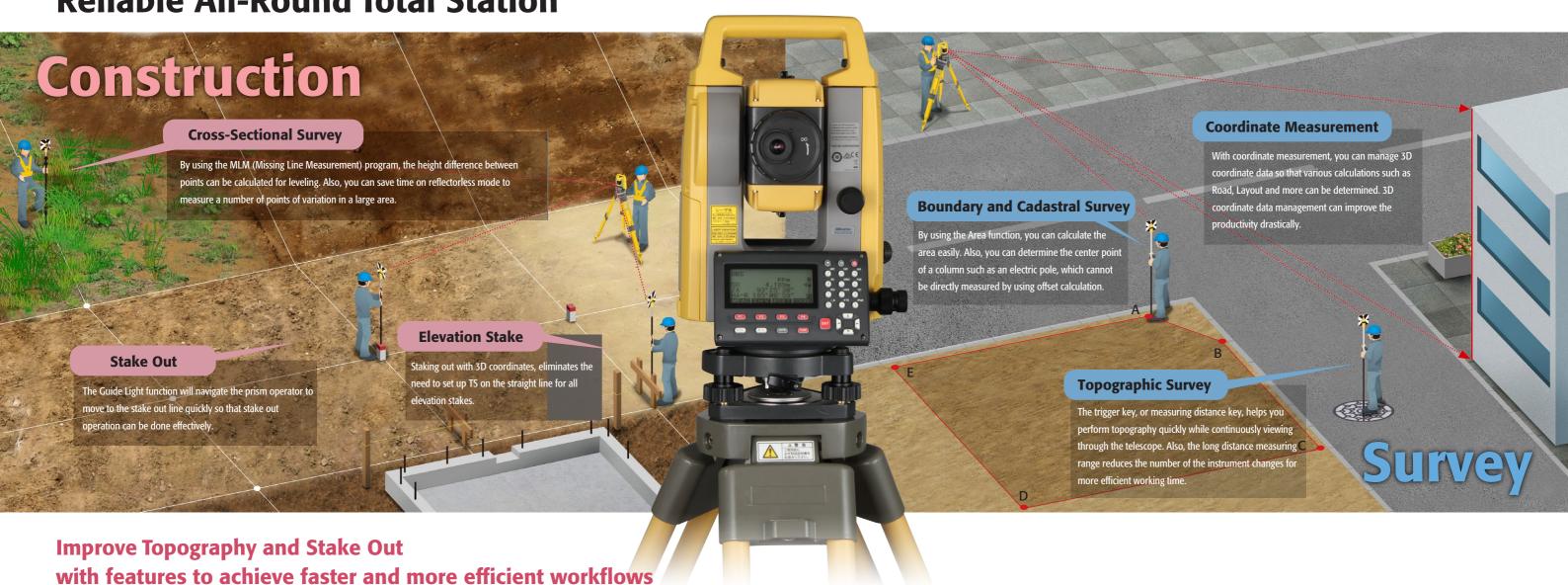


Evolving Entry-Level Total Station

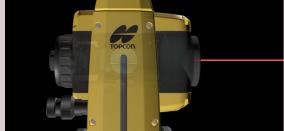
- Construction and Survey Application Software On Board
- Best-in-Class Measuring Distance Feature
- Reliable Large Volume Internal Memory
- Long-Hour Battery Operation
- Strong Environmental Specification against Tough Sites

Construction and Survey Application Software On Board Reliable All-Round Total Station











Reliable Large Volume Memory

Internal memory has 50,000 points to record.

USB memory can be used up to 32GB.

Newly Designed High-End Class EDM

Especially effective in surveying control points that require high-accuracy, and in cross sectional surveying in large areas with reflectorless measurement mode.

All Features are at Top Class

	Accuracy	Measuring Range
Prism-Mode	1.5mm+2ppm	6,000m*
Reflectorless	2.0mm+2ppm	1,000m*

* Good atmospheric condition

Distance Measurement Accuracy (Prism Mode)

Previous Model 2.0mm+2ppm

Measuring Range(Reflectorless Mode)

revious 500m

Distance 1,000m

Superior Basic Feature will Expand Your Application

Strong Environmental Spec

The IP66 rating ensures durability for most any rough job site temperatures and conditions.

Long-life Battery

One battery (BDC70) lasts up to 28 hours, or about four days of normal operation time.

Bright Illumination Key for Nighttime Work

Key buttons are illuminated to minimze mistakes.

Topcon Provides Japan Quality Products



Topcon performs tough environmental tests to ensure long-term operation even under rough site environment. GM Series total stations are thoroughly inspected

with dust-proof and water-proof test chambers. In addition, various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmental spec. Also, the measuring distance accuracy test on base line and the instrument leveling and angle accuracy test and adjustment by collimator system ensure your satisfaction on the GM Series product quality.

