

Model Telescope Magnification / Resolving Others Angle measurement Minimum Display	power	,	6.7in.), Objective ape	GM-103 7 2.5" rture: 45mm (1.8in.) (6m/1,000m), Minimum	. ,
Magnification / Resolving Others Angle measurement Minimum Display	power	,	5.7in.), Objective aper Field of view: 1°30' (2	rture : 45mm (1.8in.) (6m/1,000m), Minimun	. ,
Others Angle measurement Minimum Display	power	,	5.7in.), Objective aper Field of view: 1°30' (2	rture : 45mm (1.8in.) (6m/1,000m), Minimun	. ,
Angle measurement Minimum Display		,	Field of view: 1°30' (2	6m/1,000m), Minimun	. ,
Minimum Display		EDM), Image: Erect,	•		n focus: 1.3m (4.3f
Minimum Display		,, 33	•		
Minimum Display				5 originathess levels	
Minimum Display				3 brightness levels	
	li de la companya de	0.5"/1" 1"/5"			
A	Fillindin Display				
A (ICO 17122 2.2			(0.0001 / 0.0002gon, 0.001gon, 0.005 / 0.02mil)		
Accuracy (ICO 17122 2:2001)			2"	3"	F.,
Accuracy (ISO 17123-3:2001)		1"			5"
Dual-axis compensator /		Dual-axis liquid tilt sensor, working range: ±6'			
Collimation compensation		On/Off (selectable)			
Distance measurement				. / D : / L :	01 4
Laser output*1	D - 0 t 1 *3	Reflectorless mode: Class 3R / Prism/sheet mode: Class 1			
Measuring range	uring range Reflectorless*3 0.3 to 800m (2,620ft.) / Under good conditions*4 : 1,000m (3,28			1 (3,28UTT.)	
	Reflective sheet*5*6	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.),			
tions ^{*2})		RS10N-K: 1.3 to 100m (4.3 to 320ft.)			
	Mini prism	1.3 to 500m (4.3 to 1,640ft.)			
	One prism	1.3 to 5,000m (4.3 to 16,400ft) / Under good conditions*4 : 6,000m (19,680ft.)			
Minimum Display		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	Reflectorless*3	(2 + 2ppm x D) mm*8			
(ISO 17123-4:2001)	Reflective sheet*5*6	(2 + 2ppm x D) mm			
	Prism*7	(1.5 + 2ppm x D) mm			
Measuring time*4*9	Fine	0.9s (initial 1.5s)			
	Rapid	0.6s (initial 1.3s)			
	Tracking	0.4s (initial 1.3s)			
OS, Interface and Data r	nanagement				
Operating system			Lir	nux	
		Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 28 keys with backlight			
Control panel location		On both faces			
Trigger key		Yes (right side)			
Data storage	Internal memory	Approx. 50,000 points			
	Plug-in memory device	USB flash memory (max. 32GB)			
Interface	-	Serial RS-232C, USB2.0 (Type A for USB flash memory)			
•	Bluetooth modem (option)*10	Bluetooth Class 1.5, Operating range: up to 10m *11			
General					
Guide light*12	1	Green LED (524nm) a	nd Red LED (626nm),	Operating range: 1.3 to	150m (4.3 to 490ft.
Laser-pointer*12			Coaxial red laser	using EDM beam	
Levels	Graphic	6' (Inner Circle)			
	Circular level (on tribrach)	10' / 2mm			
Plummet	Optical	Magnification	n: 3x, Minimum focus:	0.5m (19.7in.) from trib	rach bottom
	Laser (option)	Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser product			
	Operating temperature	IP66	(IEC 60529:2001) / -2	20 to +60°C (-4 to +140)°F)
Dust and water protection / 0	Size with handle		183(W)x 181(D)x 348(H)mm	
Dust and water protection / 0		192.5mm from tribrach mounting surface			
Dust and water protection / (Size with handle Instrument height					
Dust and water protection / (Size with handle Instrument height	brach				
Dust and water protection / 0 Size with handle	ibrach		Approx. 5.3		
Dust and water protection / 0 Size with handle Instrument height Weight with battery & tri	ibrach		Approx. 5.3		
Dust and water protection / (Size with handle Instrument height Weight with battery & tri Power supply			Approx. 5.3	3kg (11.7lb)	
Dust and water protection / 0 Size with handle Instrument height Weight with battery & tri Power supply Battery Operating time (20°C)*13			Approx. 5.3	3kg (11.7lb) ble battery BDC72	
Dust and water protection / 0 Size with handle Instrument height Weight with battery & tri Power supply Battery Operating time (20°C)*13 Application program		REM Meacurer	Approx. 5 Li-ion rechargeab BDC72: Appro	oke (11.7lb) sle battery BDC72 ox. 28hours*14	ion •Stake Out
Dust and water protection / 0 Size with handle Instrument height Weight with battery & tri Power supply Battery Operating time (20°C)*13			Approx. 5.3 Li-ion rechargeat BDC72: Appro	3kg (11.7lb) ble battery BDC72	

^{*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 beam'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 900ft.), 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 wireless 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 (BDC72) Battery charger (CDC77) 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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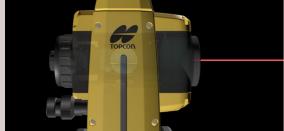
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- Reliable Large Volume Internal Memory
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- Strong Environmental Specification against Tough Sites

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.

