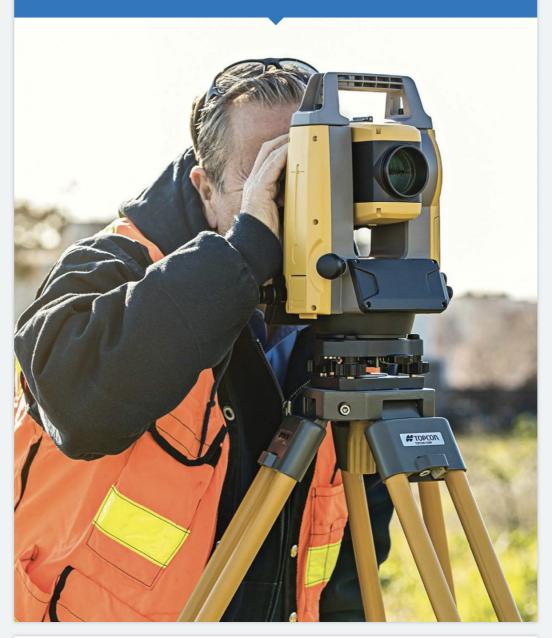


GM-50 SERIES REFLECTORLESS TOTAL STATIONS





Reflectorless Total Stations

- Fast and accurate new FDM
- . Bluetooth® communications (optional)
- · Advanced angle accuracy
- . Long battery life 14 hours
- · Rugged, waterproof design with IP66 rating
- 500 m long-range reflectorless measurement
- 50,000 point internal memory

Topcon GM-50 Series total stations – advanced design with superior technology

The GM-50 Series was designed from the ground up to deliver the very latest technological advantages, all in a small, sleek design – you'll appreciate the advantages from the very first measurement.

Featuring a class leading EDM unit, the GM-50 is able to measure up to 4,000 m at 1.5 mm + 2 ppm accuracy, to standard prisms, and can measure in reflectorless mode up to 500 m at an incredible 2 mm + 2 ppm accuracy.

Measurements are captured faster than ever, and with a beam width of 13 mm (at 30 m), the bright red laser dot pincoints features with ease.

Versatile, Economical Solution

The GM-50 Series is smaller, lighter, with increased storage capacity. Offered at an even more cost-efficient option than previous models, it provides your customers the perfect tool for entry-level site layout and surveying.

Bluetooth® Communication

With integrated Bluetooth® capability and internal antenna, the sleek design enables you to deliver measurements cable-free to your data controller.



Tested for toughness

We perform the tough environmental tests to ensure long-term operation even under the rough site environments. GM Series total stations are thoroughly inspected with dust-proof and water-proof test chambers. In addition, the various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmenta spec. 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 GM Series product quality.

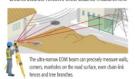






Fast and Powerful Reflectorless EDM

- · Fast and accurate pinpointing with phase shift technology.
- · Fast distance measurement of 0.9s regardless of object.
- Minimum reflectorless measuring distance just 30cm.
- · Improved collimation with super-bright pointer.
- Smaller EDM beam spot size for minimal distance measuring error.
- · Dependable measuring even at shallow incidence angles.
- Ensures accurate reflective sheet distance measurement.



Japan Quality Products



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Standard Package Components

- Main unit Battery (BDC46C)
- Battery charger (CDC68A)
- Power Cable Lens cap Lens hood
- Tool pouch Precision Screwdriver
- ullet Lens brush ullet Hexagonal wrench imes 2
- · Cleaning cloth · Quick Manual
- · Laser caution sign-board
- Carrying case
 Carrying strap

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		SPECIFICATIONS	0000000000000000	
Model		GM-52	GM-55	
Telescope		011 32	0.1.55	
Magnification / Reso	lving power	30x	/ 2.5"	
Others			re aperture : 45mm (1.8in.) (48mm	
		(1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m),		
		Minimum focus: 1.3m (4.3ft.) Reticle illumination: 5 brightness levels		
Angle measuremen	nt	Timinani rocesi 1.5m (1.5m.) nen	ere manimation. 5 brightness levels	
Minimum Display		1"/5" (0.0002 / 0.001	Igon, 0.005 / 0.02mil)	
Accuracy (ISO 17123-3:2001)		2"	5"	
Dual-axis compensator /		Dual-axis liquid tilt sensor, working range: ±6'		
Collimation compensation		On/Off (selectable)		
Distance measurer		0.00		
Laser output*1	none.	Reflectoriess mode : Class 3F	R / Prism/sheet mode : Class 1	
Measuring range				
(under average	Reflective sheet*4*5	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.),		
conditions*2)		RS50N-K: 1.3 to 300m (4.3 to 980ft.),		
,			00m (4.3 to 320ft.)	
	Mini prism	1.3 to 500m (4.3 to 1,640ft.)		
	One prism	1.3 to 4,000m (4.3 to 13,320ft)		
Minimum Display	one priorit	Fine / Coarse : 0.0001m (0.001ft. / 1/8 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable)		
		Coarse : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1 in.) (selectable)		
		Tracking / Road : 0.01m (0.02ft. / 1 in.)		
Accuracy*2 Reflectorless*3		(2 + 2ppm x D) mm*6		
(ISO 17123-4:2001)	Reflective sheet*4*5	(2 + 2ppm x D) mm		
(D=measuring distance in mm)			m x D) mm	
Measuring time*8	Fine	0.9s (initial 1.5s)		
	Coarse	0.6s (initial 1.3s)		
	Tracking	0.4s (initial 1.3s)		
OS, Interface and I		5.15 (
Operating system	Data management	Lir	nux	
Display / Keyboard			packlight : on/off (Selectable) /	
Display / Reyboard			1 / 28 keys with backlight	
Control panel location		On both faces	On single face	
Data storage	Internal memory			
Data Storage	Plug-in memory device	Approx. 50,000 points USB flash memory (max. 32GB)		
Interface	riag in memory acrice		pe A for USB flash memory)	
	Bluetooth modem (option)*9	Bluetooth Class 1.5, Operating range: up to 10m *10		
General	Didectorii illodelli (optioli)	Didectootii cidaa 1.5, ope.	acing range: up to 10111	
Laser-pointer		Coaxial red laser using EDM beam		
Levels	Graphic		er Circle)	
Levels	Circular level (on tribrach)		2mm	
Plummet	Optical		0.5m (19.7in.) from tribrach bottom	
	Laser (option)		(635nm±10nm),	
	zase. (option)	Beam accuracy: <=1.0mm@1.3m, Class 2 laser product		
Dust and water protection	n / Operating temperature	IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)		
Size with handle	, operating temperature	183(W)x 181(D)x 348(H)mm	183(W)x 174(D)x 348(H)mm	
		(On both faces)	(On single face)	
Instrument height		192.5mm from tribrach mounting surface		
Weight with batter	v & tribrach	Approx. 5.1kg (11.3lb)		
Power supply	, at a lord dell	Approx. 5.		
Battery		Li-ion rechargeable battery BDC46C		
Operating time (20°C)*11		Approx. 14hours*12		
Application program		другох.		
		-DEM Management 3D	Considerate Management	
On board		REM Measurement •3D Coordinate Measurement		
		 Resection •Stake Out •Topography Observation Offset Measurement •Missing Line Measurement 		
		 Offset Measurement • N 	lissing Line Measurement	
			toute Surveying •Point to Line	

*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 scintiliation. *3 With Kodak Gray Card White Side (99% reflective). When brightness on measured surface is 30,000 k. or ieles. Keffectories range/accuracy may vary according to measuring objects, object-vation situations and environmental of the control of



TOPCON CORPORATION

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