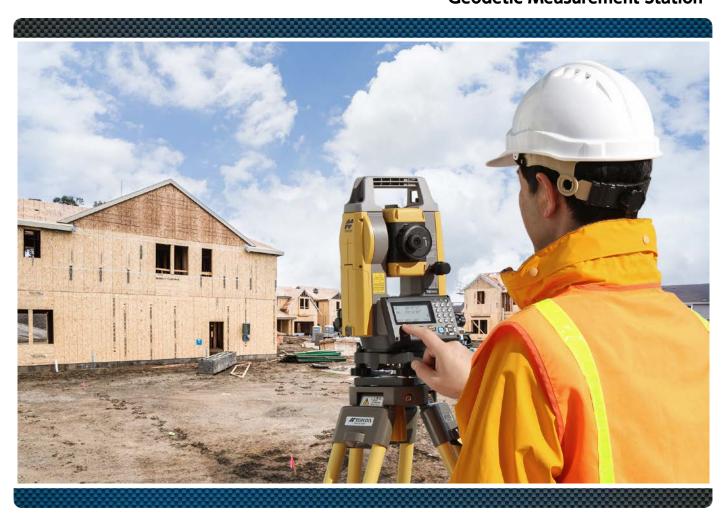
GM-50 Series



GM-50 Series Geodetic Measurement Station





High Quality, High Return!

- Construction and Survey Application Software
- Fast & Accurate & Powerful Measuring Distance Feature
- 500m Long Range Reflectoress Measurement
- Rugged & Waterproof Design
- Reliable Large Volume Internal Memory

Topbasic



GM-50 Series

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



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 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 GM Series product quality.

Standard Package Components

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



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SPECIFICATIONS				
Model		GM-52	GM-55	
Telescope				
Magnification / Resolving power		30x / 2.5"		
Others		Length : 171mm (6.7in.), Objective aperture : 45mm (1.8in.) (48mm		
others		(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 measurement				
Minimum Display		1"/5" (0.0002 / 0.001	aon 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 measurement				
Laser output ^{*1}		Reflectorless mode : Class 3R / Prism/sheet mode : Class 1		
Measuring range	Reflectorless*3	0.3 to 500m (1,640ft.)		
(under average	Reflective sheet ^{*4*5}	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.),		
conditions ^{*2})	Reflective Sfleet	RS50N-K: 1.3 to 300m (4.3 to 980ft.),		
		RS10N-K: 1.3 to 100m (4.3 to 320ft.)		
	Mini pricm	1.3 to 500m (4.3 to 1,640ft.)		
	Mini prism	1.3 to 500m (4 1.3 to 4,000m (4.2 to 12.220ft)	
Minimum Display	One prism	1.5 (0 4,000111 ($4.5 \ 10 \ 15,520\ 1)$	
		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)		
*7	*2	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)	Prism ^{*7}	(1.5 + 2ppm x D) mm		
Measuring time ^{*8}	Fine	0.9s (initial 1.5s)		
	Coarse	0.6s (init		
	Tracking	0.4s (initial 1.3s)		
OS, Interface and Data management				
Operating system		Linux		
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight : on/off (Selectable) /		
		Alphanumeric keyboard / 28 keys with backlight		
Control panel location		On both faces	On single face	
Data storage	Internal memory	Approx. 50	,000 points	
	Plug-in memory device	USB flash memo	ory (max. 32GB)	
Interface		Serial RS-232C, USB2.0 (Ty	pe A for USB flash memory)	
General				
Laser-pointer		Coaxial red laser using EDM beam		
Levels	Graphic	6' (Inner Circle)		
	Circular level (on tribrach)	10' / 2mm		
Plummet	Optical	Magnification: 3x, Minimum focus:	Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom	
	Laser (option)	Red laser diode	(635nm±10nm),	
			1.3m, Class 2 laser product	
Dust and water protection / Operating temperature		IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)		
Size with handle		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			ich mounting surface	
Weight with battery & tribrach		Approx. 5.1kg (11.3lb)		
Power supply				
Battery Li-ion rechargeable battery BDC46C			e battery BDC46C	
Operating time (20°C) ^{*9}		Approx. 14hours ^{*10}		
Application program				
On board		REM Measurement •3D Coordinate Measurement		
		•Resection •Stake Out •Topography Observation		
		•Offset Measurement •Missing Line Measurement		
		Surface Area Calculation •Route Surveying •Point to Line		

SPECIFICATIONS

*1 IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sumy periods, weak scintillation. *3 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. or less. Reflectorless range/accuracy may vary according to measuring objects,observation situations and environmental conditions. *4 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target. *5 Measuring range in temperatures of 50 to 60°C (122 to 140°F): RS90N-K: 1.3 to 300m (4.3 to 980fL), RS50N-K: 1.3 to 180m (4.3 to 590fL), RS10N-K: 1.3 to 60m (4.3 to 190fL), *6 Measuring range: 0.5 to 200m *7 Face the prism toward the instrument during the measurement with the distance at 10 m or less. *8 Good conditions: No haze, visibility about 40km (25miles), overcast, no scintillation. *9 Figures will change depensing on the operating environment including temperatures and observation conditions. *10 In use of ECO mode. Fine single measurement every 30sec.

Specifications may vary by region and are subject to change without notice.
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